

ANNUAL REPORT

(2021-22)



Krishi Vigyan Kendra, Sundargarh-I
Odisha University of Agriculture & Technology, Bhubaneswar



PROFORMA FOR ANNUAL REPORT 2021-22**1. GENERAL INFORMATION ABOUT THE KVK****1.1. Name and address of KVK with phone, fax and e-mail**

Address	Telephone		E mail
Krishi Vigyan Kendra, At/Po- Kirei, District Sundargarh PIN – 769012, Odisha	Office	FAX	kvksundargarh1.ouat@gmail.com

1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology, Bhubaneswar			

1.3. Name of Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
Dr. Laxmipriya Pradhan	Residence -	Mobile - 9438041580	Email kvksundargarh1.ouat@gmail.com

1.4. Year of sanction of KVK: **March'2004**

1.5. Staff Position (as on 31ST March, 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/Temporary	Category (SC/ST/OBC/ Others)
1	Senior Scientist& Head	Dr. Laxmipriya Pradhan	Senior Scientist & Head	Home Science	79,800-2,11,500 89800	17/5/18	Permanent	Others
2	Scientist	Mr. David James Bage	Scientist	Agriculture. Extension	89800	8/8/2012	Permanent	ST
3	Scientist	Dr. Manoj Kumar Jena	Scientist	Soil Science	89800	08/06/2021	Permanent	Others
5	Subject Matter Specialist	Mr. Dibyendu Mondal	Subject Matter Specialist	Agronomy	61300	09/06/2021	Permanent	SC
6	Subject Matter Specialist	Vacant						
7	Subject Matter Specialist	Vacant						
8	Programme Assistant	MuddadaDibyanath	Programme Assistant	Fishery	38700	10/8/2018	Permanent	Others
9	Computer Programmer	Arun Kumar Mishra	PA(Computer)		60400	1/7/2011	Permanent	Others
10	Farm Manager	Vacant						
11	Accountant / Superintendent	Vacant						
12	Stenographer	Kamal lochan Mohanta	Steno-cum-Comp. Operator		39800	09/06/2021	Permanent	Others
13.	Driver	Bhramarbar Sa	Driver-cum-Mechanic		26800	10/8/2008	Permanent	
14.	Driver	Jitendra Kumar Sethy	Driver-cum-Mechanic		23800	09/06/2021	Permanent	SC
15.	Supporting staff	Gajanan Chhanda	Peon-cum-Watchman		24300	18/6/2013	Permanent	OBC
16.	Supporting staff	Vacant						

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	0.559
2.	Under Demonstration Units	0.328
3.	Under Crops	2.0
4.	Orchard/Agro-forestry	0.9
5.	Others with details	Forest Plantation-2.0Aquaculture – 1.0, IFS-2.0Wasteland-30.0
	Total	42.10

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					Yes	800	Yes	ICAR
2.	Farmers Hostel					Yes	2400	Yes	ICAR
3.	Staff Quarters (6)					Yes	6600	Yes	ICAR
4.	Piggery unit					Yes	168000	Yes	RKVY
5	Fencing					Yes	2000	Yes	ICAR
6	Rain Water harvesting structure					Yes	198	Yes	ICAR
7	Threshing floor					Yes	200	Yes	ICAR
8	Farm gdown					Yes	60	Yes	RKVY
9.	Dairy unit					Yes	60	Yes	ICAR
10.	Poultry unit					Yes	25	Yes	RKVY
11.	Goatary unit					Yes	300	Yes	RKVY
12.	Mushroom Lab					Yes	35	Yes	ICAR
13.	Mushroom production unit					Yes	40	Yes	ICAR
14.	Shade house					Yes	800	Yes	ICAR
15.	Soil test Lab					Yes	35	Yes	ICAR
16	Others,Please Specify								

* If not in use then since when and reason for non-use

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Tata Sumo	2005	500000	1; 98,000	Condemned in Dec 2018
Hero Honda Motorcycle	2005	50000	-	Need to repair

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
	2015-16	12,00,000	working	ICAR
b. Farm machinery				
Power Tiller	2015-16	2,87,000	working	ICAR
Rotavator	2015-16			
Power Weeder	2015-16			
Brush Cutter	2015-16	50,000	working	ICAR
Lawn mower	2021-22	33999	working	ICAR
Chaff Cutter	2021-22	25000	working	ICAR
c. AV Aids				
Computer Desktop	2015-16	50,000	working	ICAR
	2015-16	22,000	working	ICAR
Chairman Unit	2021-22	22800	Working	ICAR
Desktop	2021-22	49000	working	ICAR
Laptop	2021-22	52000	working	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Power Weeder	2016-17	86,000	Running	ICAR
Brush Cutter	2011-12	45,000	Running	ICAR
Rotavator	2016-17	1,80,000	Running	ICAR
Cultivator	2016-17	30,000	Running	ICAR
NAPSAK Battery Sprayer	2014-15	2,800	Running	ICAR
Power Sprayer	2015/16	36,500	Running	ICAR
Foot Sprayer	2013/14	4,800	Running	ICAR
Pruning Saw	2017/18	14,000	Running	ICAR
2 hp pump	2014-15	38,000	Running	RKVY
Power Weeder	2016-17	86,000	Running	ICAR
Brush Cutter	2011-12	45,000	Running	ICAR

1.8. Details SAC meeting* conducted in the year

Sl. No	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	29/12/2021	36	Bee keeping to be promoted in organic farming areas	❖ One Special skill development training programmes on Scientific bee keeping involving 25 participants for 7days conducted under NBB ❖ One residential Skill development training on Scientific Honey bee rearing involving 30 participants under ATMA, Sundargarh ❖ One Skill development training programme on rearing honey bee covering 15 nos of Participants under ICAR(KVK) ❖ 30 nos of honeybee developed at Damkudavillage,Convergence with PD watershed)	
			Protein rich rice varieties CR Dhan 311 to be popularised	❖ Promotion of new varieties CR-Dhan-311 have been demonstrated in TSP villages(Birjaberna and lahandabud) with 10 farmers ❖ Training conducted on package of practices of rice with 30 F & FW	

				One of our adopted village, Birjaberna has supplied 5q of CR-311 seeds to Sundargarh ❖ Recommendation communicated to Agriculture Department for horizontal spread through ATMA and also to other departments i.e. Watersheds, Forest etc. 5ha already demonstrated under KVK.	
			Stress tolerant crop like ragi and others to be promoted	❖ Ragi variety Arjun has been popularised by KVK through OFT, FLD & Depts promoted under millet mission in more than 2000ha area (3713.3ha)	
			Guava variety Bihi can be promoted Under NREGA	❖ 250 nos. of tissue culture Guava supplied to IIWM, (Birjaberna and Mahuljore village) ❖ 350 numbers of sapling have been supplied to farmers of Sundargarh, 100 nos to Sonapur & Sambalpur ❖ 30 ha of guava plantation has been taken up by hort. Dept. during 2021-22	
			Suitable varieties rice straw having high cellulose and hemicellulose may be assessed	❖ The rice varieties having high cellulose recommended by NRRI is not available in this district	
			Under OMBADC, KVK technologies to be replicated to more areas	❖ KVK technologies like Banana cultivation under drip irrigation has been taken-up in large scale in OMBADC blocks (Kutra, Rajgangpur) of Sundargarh district etc. ❖ One Mushroom house developed at Kutra block	
			Bio-floc, Ornamental fish hatchery and similar income generating activities for rural youths to be promoted	❖ 13 farmers have developed 30 numbers of bio-floc unit through fishery department (Lephrpara-4, Hemgir-4, Sadar-8, Balisankara-6, Subdega-8, Rajgangpur-2). 2 young entrepreneur have developed 2 bio-floc unit on own. ❖ Around 30-35 numbers of new tanks developed for pisciculture through Department of Fisheries. ❖ Mushroom production, Vermicomposting, Nursery raising as well as backyard poultry activities promoted for income generation	
			All the unutilised rocky lands of KVK to be planned and planted accordingly	❖ Land reclamation in 2 ha of land & fruit crops like Guava & apple-ber have been planted with drip irrigation facility in 1ha	

			Backyard poultry OUAT breed pallishree to be promoted with Kadaknath	❖ Two units of Kadaknath unit have been developed at Kesramal&Rasrajpur village by KVK ❖ 1200 Kadaknath chicks from panpose hatchery provided to tribal farmers	
			Promote preparation and consumption of Ragi biscuits	❖ Training to SHG members have been conducted and the products have been widely displayed in exhibitions & 15-20 SHGs under Odisha Millet Mission are already supplying ragi biscuits & other production under MDM in the district. ❖ Awareness programme Nutri-cereal conducted by KVK	
			One nutritional calendar of nutri- garden may be developed mentioning types of vegetables suitable and time of sowing	❖ Already developed nutri-garden model with vegetable types & sowing time	
			Tomato hybrid varieties released by IIHR (Arka series) suitable for sundargarh district to be promoted by Hort. dept	❖ One OFT & FLD has been conducted in 7 villages (4 Block) with 17 nos. of Participants ❖ Seedling provided (Variety ArkaRakshak and Samrat) for 30 numbers nutria-garden ❖ Supplied 18,650 seedlings to 300 farmers of the district	
			Instead of tissue culture, micro-propagation of banana to be encouraged	❖ Programme will be conducted in January	
			Promote large scale production of Mushroom and value addition of mushroom	❖ 2 nos of RY and F&FW trainings conducted involving 95 trainees under ATMA & ICAR ❖ 1 no of training on Button mushroom cultivation in Odisha involving 65 nos of participants (KVKs of Odisha, AHOs, Entrepreneurs though hybrid mode ❖ Around 700 farmers are involved in round the year production of mushroom (through Agriculture, Horticulture, NGOs, OLM & ITDA) ❖ 2 demonstration on paddy straw mushroom and Oyster mushroom using threshed straw have been conducted. ❖ One training manual also developed and provided on trg. programme	

			Emphasis should be given on convergence activities with line department	❖ CFLD programme on Groundnut has been conducted in collaboration with PD Watershed and Forest dept. at Lephripada&Subdega block with involving 6 Nos. of farmers ❖ Demonstration programme on Arhar variety PRG 176 and CFLD Oilseed has been conducted in collaboration with FPO Lepripada& SEWAK NGO ❖ FLD On Maize(Var.-Kalinga Raj) conducted in VSS area(100 tribal farmers) of Forest dept	
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2.a. District level data on agriculture, livestock and farming situation (2021)

Sl. no.	Item	Information					
1	Major Farming system/enterprise	Rice-fallow Rice-Sesamum- fallow, Rice-green gram, Rice-vegetable					
2	Agro-climatic Zone	North Western Plateau Zone (1)					
3	Agro ecological situation	AES-I – Low rainfall, lateritic soil, AES-II – Medium rainfall, red and black soil, AES-III – High rainfall, lateritic soil, AES-IV – Medium rainfall, black and brown forest soil.					
4	Soil type	Red and yellow lateritic, Black, Red, Sandy, Sandy loam type					
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Crop	Productivity (q/ha)	Crop	Productivity (q/ha)	Crop	Productivity (q/ha)
		Paddy (Kharif)	26.8	Horsegram	4.70	Cowpea (Kharif)	8.60
		Rabi	32.61	Arhar	9.63	Rabi	8.93
		Greengram (Kharif)	4.74	Sesamum	4.31	Chickpea	5.45
		Rabi	6,10	Mustard	4,80	Onion	55,50
		Blackgram (Kharif)	4,60	Niger	3.80	Potato	79.80
		rabi-	5,25	Ragi		Chilli	8.97
6	Mean yearly temperature, rainfall, humidity of the district	Min-(4-19 ⁰ C), Max -(30-45.2 ⁰ C) ,1268.8mm,					
7	Production of major livestock products like milk, egg, meat etc.	Milk -49.486 '000MT; Egg-58.68 Million; Meat--14.34 '000MT					

Note: Please give recent data only

2.b. Details of operational area / villages (2021-22)

Sl. No .	Name of Taluk/ Panchayat	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1	Kinjirma	Sadar	Birjaberna	Rice-groundnut	Low yield of rice, ragi oilseeds (groundnut, mustard), Pulses (blackgram, greengram), vegetables (Tomato, brinjal, okra,) Tubers (onion, Potato) ,Chilli, High gap in technology adoption	INM, IPM, Varietal substitution, crop improvement, organic farming, nutritional security, NTFP, value addition, income generation activities
2	Lahandabud	Sadar	Lahandabud	Rice-	Low yield of rice, ragi oilseeds (sesamum, mustard), Pulses (Horsegram, arhar, greengram), vegetables (Tomato, brinjal, okra,) Tubers (onion, potato) High gap in technology adoption Deficiency of micronutrients (Vegetable)	INM, IPM, Varietal substitution, crop improvement, organic farming, nutritional security, NTFP, value addition, income generation activities
3	Barangakachhar	Bargaon	Barangakachhar, talimunda	Rice, Arhar, sesamum, ragi, niger, horsegram	Low yield of rice, ragi oilseeds (sesamum, mustard), Pulses (Horsegram, arhar, greengram), vegetables (Tomato, brinjal, okra,) Tubers (onion, potato) High gap in technology adoption	INM, IPM, Varietal substitution, organic farming, vegetable farming, Apiculture, NTFP
4.	Rajgangpur	Rajgangpur	Ranibandh, Jhagarpur	Rice, Vegetables, Mustard, greengram,	Low yield of rice oilseeds (mustard, sunflower), Pulses (Horsegram, arhar, greengram), vegetables (Tomato, brinjal, okra,) Tubers (onion, potato) low yield, lack of technology, gap in knowledge and skill, no value addition,	INM, IPM, value addition, vegetable cultivation.Dairy farming, off-season vegetable cultivation, income generation activities
5.	Kiripsira	Tangarpali	Khamarbahal	Rice, green gram, groundnut, onion, potato, tomato, vegetables	Low yield of rice, ragi oilseeds (sesamum, mustard), Pulses (Horsegram, arhar, greengram), vegetables (Tomato, brinjal, okra,) Tubers (onion, potato) medium- High gap in technology adoption in all crops	Training on INM, IPM, Varietal substitution, crop improvement, organic farming, nutritional security, NTFP, value addition, Fisheries, creation of organic input products, income generation activities, Hand holding Support to 4 SHGs

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2020) for its development and action plan

Name of village	Block	Action taken for development
Birjaberna, Lahandabud	Sundargarh	Training on INM, IPM, Varietal substitution, crop improvement, organic farming, nutritional security, NTFFP, value addition, Fisheries, creation of organic input products, income generation activities, Hand holding Support to 4 SHGs by asset creation in the village on drudgery reduction small tools, community nursery
Barangakachhar and Talimunda	Bargaon	Training on INM, IPM, Varietal substitution, crop improvement, organic farming, nutritional security, NTFFP, value addition, Fisheries, creation of organic input products, income generation activities, Hand holding Support to 9SHGs by asset creation in the village on drudgery reduction small tools, community nursery
Ranibandh and Jhagarpur	Rajgangpur	Training on INM, IPM, Varietal substitution, crop improvement, organic farming, vegetable farming nutritional security, value addition, Fisheries, creation of organic input products, income generation activities, Hand holding Support to 3 Urban SHGs by asset creation in the village on drudgery reduction small tools, community nursery
Khamarbahal	Tangarpali	Training on INM, IPM, Varietal substitution, crop improvement, organic farming, nutritional security, NTFFP, value addition, Fisheries, creation of organic input products, income generation activities, Hand holding Support to 4 SHGs by asset creation in the village on drudgery reduction small tools, community nursery
Masabira	Lephipada	Training on INM, IPM, Varietal substitution, crop improvement, organic farming, nutritional security, NTFFP, value addition, Fisheries, creation of organic input products, income generation activities, Hand holding Support to 4 SHGs by asset creation in the village on drudgery reduction small tools, community nursery

2.1 Priority thrust areas

S. No	Thrust area
1.	To increase yield by substituting local / degraded varieties in vegetables and field crops.
2.	To control disease & insect pest by integrated methods of pest control with organic articulation.
3.	To promote integrated nutrient management in crop production.
4.	To promote cultivation of lucrative off-season vegetables.
5.	Emphasize on increasing the acreage of the fruit crops like mango, banana on commercial scale.
6.	Popularize diversified cropping pattern in uplands (Oilseeds/Pulses/Maize).
7.	Popularize integrated weed & nutrient management in crop production.
8	Market led extension
9	Developing farm management skills
10	Empowerment of farm women and rural youth
11	Improvement of soil health through popularization of organic farming
12	Enhancing productivity of horticultural crops through crop diversification

3. TECHNICAL ACHIEVEMENTS

3.A.Details of target and achievement of mandatory activities by KVK during the year

OFT												FLD											
No. of technologies tested:												No. of technologies demonstrated:											
Number of OFTs		Number of farmers										Number of FLDs				Number of farmers							
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement								
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
7	6	52	4	6	1	1	4	2	2	2	4	12	11	150	8	9	45	34	32	2	85	45	130

Training												Extension activities													
Number of Courses		Number of Participants										Number of activities		Number of participants											
Target	Achievement	Target	Achievement										Target	Achievement	Target	Achievement									
			SC		ST		Others		Total						SC		ST		Others		Total				
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T		
43	43	859	31	104	295	428	96	95	423	637	1060	1120	1120	5000							3209	1741	4950		

Impact of capacity building											Impact of Extension activities										
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								
Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T
4	3	2	1	8	6	11	9	21	16	37	300	245	18	12	38	24	84	69	140	105	245

Seed production (q)						Planting material (in Lakh)					
Target						Target					
Achievement						Achievement					
40.0						1,00,000					
40.0						1,00,000					

Livestock strains and fish fingerlings produced (in lakh)*						Soil, water, plant, manures samples tested (in lakh)					
Target						Target					
Achievement						Achievement					
1200						1200					
1200						1200					

* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper							
Seminar/conference/ symposia papers							
Books							
Bulletins							
News letter	2	1000					
Popular Articles							
Book Chapter							
Extension Pamphlets/ literature	5	2000					
Technical reports	7	7					
Electronic Publication (CD/DVD etc)	5	5					
TOTAL							

1 Achievements on technologies assessed and refined

OFT-1

1	Title of On Farm Trial	Assessment of herbicides for weed management in transplanted rice (Kharif)
2	Problem diagnosed	Yield loss due to high weed infestation
3	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed FP - Hand weeding at 30-40 DAT TO1- Application of PE Pendimethalin @ 0.75 kg/ha at (1 -3) DAT fb PoE application of Chlorimuron ethyl + Metasulfuron methyl @ 4.0 g/ha at 20 DAT TO2 - Post emergence application of Cyhalofop butyl+ Penoxulam @ 135g/ha at 20 DAT
4	Source of Technology(ICAR/ AICRP/SAU/other, please specify)	SLREC 2020-21, OUAT
5	Production system and thematic area	Rice-Pulse, Rainfed medium land
6	Performance of the Technology with performance indicators	Weed flora composition, Weed control efficiency Effective panicles/m ² , No of Filled grains /Panicle, 1000 grain weight
7	Final recommendation for micro level situation	TO-1 gives better control of weeds and resulted highest WCE (75.9%) along with yield (43.5 q/ha) over TO-2
8	Constraints identified and feedback for research	-
9	Process of farmers participation and their reaction	The farmers actively participated in the trial and satisfied with the technology (Training, Method Demonstration)

Thematic area:

Problem definition: Low yield due to heavy weed infestation

Technology assessed: Herbicides for weed management in transplanted rice

Table:

Technology option	No. of trials	Weed Density (No/m ²)			WCE (%)	Grain Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Grass	Sedge	Broadleaf						
FP	7	2.41 (1.85)*	1.67 (1.64)	2.70 (1.59)	-	37.8	43,290	70,610	27320	1.63
TO1	7	1.08 (1.44)	0.82(1.35)	1.37 (1.54)	75.9	43.5	46,878	81,258	34380	1.73
TO2	7	1.92(1.60)	1.22 (1.02)	2.37 (1.87)	69.3	42.1	45,682	78,642	32960	1.72

Results: TO-1 gives better control of weeds and resulted highest WCE (75.9%) along with yield (43.5 q/ha) over FP

OFT-2

1.	Title of On Farm Trial	Assessment on different method of pasteurization of straw for controlling of Inkcaps in paddy straw mushroom bed (Kharif)
2.	Problem diagnosed	Lack of knowledge on pasteurization of substrate for controlling competitive mould (inkcap)
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed FP - <i>No pasteurization of substrate</i> TO1- Pre Soaking of substrate in 2% bleaching powder for 6hrs TO2 - Pre Soaking of substrate in 0.02% Calcium Carbonate for 6hrs
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Proceedings of 8 th International conference on Mushroom Biology, 2015-16
5.	Production system and thematic area	Homestead
6.	Performance of the Technology with performance indicators	Intensity of copernicus% No of Inkcaps /bed, Yeild (Kg/bed)
7.	Final recommendation for micro level situation	Pre Soaking of substrate in 2% Calcium carbonate for 6hrs lowering the inkap infection
8.	Constraints identified and feedback for research	Unavailability of good quality straw
9.	Process of farmers participation and their reaction	The farmers actively participated in the trial and satisfied with the technology (Training, Method Demonstration)

Thematic area:

Problem definition: Lack of knowledge on pasteurization of substrate for controlling competitive mould (inkcap)

Technology assessed: Different method of pasteurization of straw for controlling of Inkcaps in paddy straw mushroom bed in Kharif

Table:

Technology option	No. of trials	Intensity of Inkcaps / Copernicus %	Yield (q/ha)	Biological Efficiency	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	33.01	465	6.6	85	93.0	8.0	1.09
TO1	7	11.30	681	9.7	95	136.2	41.2	1.43
TO2	7	4.0	856	12.2	95	171.2	76.2	1.80

Results: *Pre Soaking of substrate in 2% Calcium carbonate for 6hrs lowering the inkap infection*

OFT-3

1.	Title of On Farm Trial	Assessment of PSB and VAM on Groundnut (Rabi)
2.	Problem diagnosed	Low yield due to poor nutrient management and water stress
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed FP –Application of $N-P_2O_5-K_2O$ @ 20:40:40 kg/ha TO1- STBF+0.2LR+Rhizobium @50g/kg of seed + PSB@5kg/ha TO2 - STBF+0.2LR+Rhizobium @50g/kg of seed + PSB@5kg/ha+VAM@5kg/ha
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	All India Network Project on soil bio-diversity & Bio-fertilizers 2010
5.	Production system and thematic area	Rice-groundnut, Irrigated medium land, INM
6.	Performance of the Technology with performance indicators	Pod yield(q/ha), No of pods/plant, B:C Ratio
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	The farmers actively participated in the trial and satisfied with the technology (Training, Method Demonstration)

Thematic area:

Problem definition: Low yield due to poor nutrient management and water stress

Technology assessed: PSB and VAM application in Groundnut

Technology option	No. of trials	No of pods/Plant	Pod Yield (q/ha)	% increase over FP	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	16.9	17.5	-	54000	97125	43125	1.80
TO1	7	21.1	20.2	15.42	56000	112110	56110	2.00
TO2	7	21.8	21.6	23.42	57500	119880	62380	2.08

Results:

OFT- 4

1.	Title of On Farm Trial	Assessment of lime application in greengram (Rabi)
2.	Problem diagnosed	Low yield of greengram in acid soil due to poor growth & nutrient uptake
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed FP –Application of NPK (20:40:40) and no application of lime TO1- TO1-STBR + Seed coated with lime (CaCO ₃) @ 160gm/kg seed TO2-STBR + 0.2LR as CaCO ₃ (furrow application)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	All India Network Project on Soil bio-diversity & bio-fertilizer, 2016-17 & 2018-19
5.	Production system and thematic area	Rice-Greengram, Irrigated medium land, INM
6.	Performance of the Technology with performance indicators	Pod yield (q/ha), No of pods/plant, B:C Ratio
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	The farmers actively participated in the trial and satisfied with the technology (Training, Method Demonstration)

Thematic area:

Problem definition: Low yield of greengram in acid soil due to poor growth & nutrient uptake

Technology assessed: Lime application in greengram

Technology option	No. of trials	No of pods/Plant	Pod Yield (q/ha)	% of Increase	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	11.2	7.8	-	25000	56745	31745	2.27
TO1	7	14.3	9.0	15.38	25800	59475	39675	2.54
TO2	7	14.6	9.3	19.23	28200	67657	39457	2.40

Results:

OFT- 5

1.	Title of On Farm Trial	Assessment of suitable varieties of tomato for long term keeping (Rabi)
2.	Problem diagnosed	Poor keeping quality of existing tomato varieties
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed FP –Cultivation of Tomato var: Laxmi TO1- F1 hybrid Ark Rakshyak TO2 - F1 hybrid Arka Samrat
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-IIHR, Bengaluru, 2018
5.	Production system and thematic area	Vegetable-vegetable, Rainfed, Varietal evaluation
6.	Performance of the Technology with performance indicators	Fruit Yield(kg/plant), yield- q/ha, Keeping Period in days
7.	Final recommendation for micro level situation	ArkaRakshyak was found to have best keeping quality (13-14) days under normal condition
8.	Constraints identified and feedback for research	The variety is subject to fruit rot in absence of staking & plant height is higher
9.	Process of farmers participation and their reaction	The farmers actively participated in the trial and satisfied with the technology (Training, Method Demonstration)

Thematic area:

Problem definition: Poor keeping quality of existing tomato varieties

Technology assessed: suitable varieties of tomato for long term keeping

Technology option	No. of trials	Avg No of fruits/Plant	Keeping Period in days	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	26.5	2.5	230.35			1,65,500	
TO1	7	35.7	13.1	300.50			2,19,000	
TO2	7	32.5	8.4	272.37			1,87,000	

Results: Arka Rakshyak was found to have best keeping quality (13-14) days under normal condition

OFT- 6

1.	Title of On Farm Trial	
2.	Problem diagnosed	
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed FP – TO1- TO2 -
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	
5.	Production system and thematic area	
6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area:

Problem definition:

Technology assessed:

Technology option	No. of trials				Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7							
TO1	7							
TO2	7							

Results:

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration										Reasons for shortfall in achievement
				Proposed	Actual	SC`		ST		Others		Total				
						M	F	M	F	M	F	M	F	T		
1.	Rice	INM	Demonstration on potassium and zinc application for management of iron toxicity in rice. Application of 25 kg ZnSO4/ha and top dressing of MOP@30kg/ha after drainage of water	2.0	2.0	0	0	8	0	2	0	10	0	10		
2.	Ragi	Varietal evaluation	Demonstration on high yielding Ragi. Line transplanting with RDF(60:30:30)	2.0	2.0	2	0	4	1	2	1	8	2	10		
3	Maize	Varietal evaluation	Demonstration on Hybrid Maize variety Kalinga Raj with Line sowing and RDF (120:60:60)	2.0	2.0	0	0	5	1	2	2	7	3	10		

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Annual rainfall	No. of rainy days
				N	P ₂ O ₅	K ₂ O					
Rice	Kharif2021	Rainfed	Red soil (Sandy loam)	267	8.6	162	Rice	5.7.21	22.11.21	875	48
Ragi	Kharif2021	Rainfed	Red soil (Sandy loam)	260	7.8	143	Ragi	15.7.21	30.10.21	875	48
Maize	Kharif2021	Rainfed	Red soil (Sandy loam)	271	7.2	128	Rice	6.7.21	12.10.21	875	48

In both the Tables, information of same crop should be provided. For example, if in Table 3.2A crops are mentioned as a,b,c,d etc., in the table for Details of farming situation, the same crop should be mentioned in the identical sequence.

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rice	INM	Demonstration on potassium and zinc application for mgt of iron toxicity in rice	10	2.0	46.4	39.2	18.36	47250	90016	42766	1.90	45000	76048	31048	1.69
Ragi	Varietal evaluation	Demonstration on high yielding Ragi	10	2.0	8.2	6.7	22.39	12500	26240	13740	2.10	11500	21440	9940	1.86
Maize	Varietal evaluation	Demonstration on Hybrid Maize variety Kalinga Raj	10	2.0	71.9	60.8	18.26	58827	129420	70593	2.20	55553	109440	53887	1.97
Total															

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Total															

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Pulses

Frontline demonstration on pulse crops

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC`		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Arhar	Varietal Evaluation	ArharLine sowing 60X30cm of PRG-176 @ 20kg/ha with seed treatment and RDF (20:40;40)	2.0	2.0	0	0	8	0	2	0	10	0	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P ₂ O ₅	K ₂ O					
Arhar	Kharif2021	Rainfed	Red soil (Sandy loam)	258	8.9	146	fallow	6.7.21	16.11.21	886	50

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs/ha)				*Economics of check (Rs/ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Arhar	Varietal Evaluation	Demonstration of short duration Arhar	10	2.0	14.8	12.5	18.4	44400	93240	48840	2.1	43550	78750	35200	1.81
	Total		10	2.0	14.8	12.5	18.4	44400	93240	48840	2.1	43550	78750	35200	1.81

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Other crops

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC`		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Tomato	INM	Demonstration of Integrated Nutrient Management In Tomato. STBF + Seedling treatment with bio-fertilizer (Azotobacter @ 2% solution), foliar spray of water soluble fertilizers (N:P:K 19:19:19 @ 0.5%) at 30 DAT+ foliar application of micronutrient mixture (Borax 0.2% and ZnSO4 0.5%) at 45 DAT	1.0	1.0	0	0	9	0	1	0	10	0	10	
2.	Brinjal	INM	Demonstration of INM in Brinjal. Application of75% of STBFR Fertilizer N + 100% fertilizer P & K + FYM @ 2t/ha + Bioinoculation of Azotobacter 4kg/ ha +Azospirillum 4 kg/ ha with 200kg prelied FYM (Lime 10kg) incubated for 7 days at 30% moisture & applied in rhizosphere at the time of planting	1.0	1.0	0	0	7	2	1	0	8	2	10	
3	Banana	INM	Demonstration of Bunch feeding in banana for yield enhancement. Blending 15g (7.5g Urea & 7.5g of sulphate of potash) dissolved in 100ml water in 500g of fresh cow dung & applying the slurry to the de-navelled stalk end soon after fruit set.	2.0	2.0	2	0	2	0	6	0	10	0	10	

Details of farming situation

Crop	Season	Farmin g situatio n (RF/Irri gated)	Soil type	Status of soil (Kg/ha)			Previou s crop	Sowing date	Harvest date	Season al rainfall (mm)	No. of rainy days
				N	P ₂ O ₅	K ₂ O					
Tomato	Rabi 2021-22	Irrigated, Medium Land	Red soil (Sandy loam)	286	9.6	188	Rice	8.1.2022	28.3.2022	142	25
Brinjal	Rabi 2021-22	Irrigated, Medium Land	Red soil (Sandy loam)	300	9.1	163	Rice	3.1.2022	30.3.2022	142	25
Banana	Rabi 2021-22	Irrigated, Medium Land	Red soil (Sandy loam)	292	10.2	210	Round the Year	-	-	142	25

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters (Avg. no of fruits/plant)		*Economics of demonstration (Rs/ha)				*Economics of check (Rs/ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Tomato	INM	Integrated Nutrient ManagementIn Tomato	10	1.0	302.8	270.6	11.90	62	53	115000	302800	187800	2.63	111875	270600	158725	2.42
Brinjal	INM	INM in Brinjal	10	1.0	356.4	320.9	11.0	82	75	133000	320760	187760	2.41	130560	288810	158250	2.21
Banana	INM	Bunch feeding in banana for yield enhancement	10	2.0	755.0	663.0	13.87	30.2 (Avg. bunch wt in kg)	26.5	253500	906000	652500	3.57	250000	795600	545600	3.18
	Total																

**** BCR= GROSS RETURN/GROSS COST**

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demons Ration (Length, weight)	Check (Length, weight)		Demonstr ation(FCR)	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	
Ornamental fishes																	
Others (pl.specify)	Integrated fish farming	IMC yearling production in seasonal pond	05	05	12 cm, 43 gm	9 cm, 25 gm	33cm, 72gm	1.5	1.9	1,37,250	3,15,675	1,78425	2.3	148,550	2,82,245	1,33,695	1.9
	Total																

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Demonstration of Oyster mushroom for Income generation	10	100 bags	150kg/100 bag	100kg/100bag	50	-	-	4000	12000	8000	3.0	4000	8000	4000	2.0
Paddy straw Mushroom	Demonstration of Paddy Straw mushroom for Income generation, using threshed straw	30	100 beds	65kg/100bed	85kg/100bed	30.7	13.0 bio efficiency	12.1 bio efficiency	4500	16250	11750	3.61	5500	21250	15750	3.86
Vermicompost	Demonstration of Vermicomposting, Recommended layer so for organic waste and cow dung in vermitank (using 4'dia cement ring. Release of earthworm @50nos/kg of organic waste	10	20 tanks	8q/1.75m ³ /yr compost yield	3.5/1.75m ³ /yr normal compost	128	Composting cycle 2.5months	Composting cycle 8months	5500	12000	6500	2.18	1300	1500	200	1.15

Apiculture	Regular and periodic bottom board cleaning, maintaining healthy and populous colony ,regular and periodic dearth feeding, removal of old combs and allowing new comb construction, need-based brood comb alteration and need based colony union or division are recommended for scientific beekeeping with <i>Apis-cerana indica</i>	10	10 boxes	Honey yield 3kg/box	-	100	1 colony division/ box/yr	-	850/ Box/yr	2200/ Box/yr	1350	2.59	-	-	-	-
Total																

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women	Nutritional Garden for Nutritional Security of farm families	30			After Training, Demonstration & Awareness programme the consumption of vegetables increased
	Production of paddy straw Mushroom for income generation using threshed straw	90	130kg/1qt of threshed straw	50kg/1qt of threshed straw	160% increase in production as well as triple the Farmwomen income (from Rs6100/- to Rs.20,800/-)
	Oyster mushroom var.(<i>H. ulmarius</i>) for Income generation	90	150kg/100bag	100kg/100bag	High production of mushroom(185kg/100bag) can be obtained during low temperature(less than 20oC)(December and January) than P.sajorcaju
	Vermicomposting	10	8q/1.75m ³ /year	3.5q/1.75m ³ /year Normal compost	Increase the Income from Rs200/- to Rs6500/-) It is a very easy method for making good quality of compost from farm waste within short (3months)period of time
	Brooding management of Backyard poultry	30	5mortality	15mortality	After brooding of chicks with proper vaccination 66% increase in mortality

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit)			
					Demonstration	Check									

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals										
Bajra										
Maize	Kalinga Raj	10	2.0	71.9	60.8	18.26	58,827	1,29,420	70,593	2.20
Tomato	Arkarakshak,	200	2.0	30000	23500	30	1,50,000	4,50,000	3,00,000	3.0
	Arkaabhedha,	100	1.0	27400	23500	16	1,50,000	4,11,000	2,61,000	2.74
	Arka Samrat,	100	1.0	27800	23500	18	1,50,000	4,17,000	2,67,000	2.78
	Swarna Sampad,	100	1.0	27300	23500	16	1,50,000	4,09,500	2,58,500	2.72
Brinjal	ArkaHarshitha	100	4.0	17500	12000	45.83	85000	2,60,000	1,75,000	3.05
Total										

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Rice	Drought tolerance rice variety Swarna Shreya having better performance (45q/ha)
	Rice	Application of Potassium and zinc effectively controls iron toxicity problems in rice and increase yield 17.2%
2	Ragi	Arjuna variety is giving more yield (8.2q/ha) than jaguleimandia and tastes good
	Maize	Kalinga Raj variety is giving more yield (71.9q/ha) and can also tolerate moisture stress condition
3	Okra	There is less attack of fruit borer after spraying of spinosad 45% SC @ 0.4 ml/lit at the time of pest emergence
4	Mushroom (Paddy straw)	Better utilization of straw and gives good return with small investment and have a good avenue for Doubling the income
5	Mushroom (Oyster)	High production of H. ulmarius (185kg/100bag) of mushroom can be obtained during low temperature (less than 20°C) (December and January) than P. sajorcaju
6	Poultry	Brooding management of Backyard poultry with proper vaccination 66% increase in mortality
7	Vermicomposting	Getting Good quality compost within 3 months by using all the agricultural byproducts & garden and Kitchen waste
8	Nutri-Garden	With a active nutri-garden in backyard we get vegetables throughout the year and our habit has changed hence increasing the nutritional security
9.	Honey bee	It is a good avenue for crop pollination and production of Honey and colonies

10	Tomato	
11	Brinjal	
12	Banana	

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	7/10/21, 25/10/21, 17/11/21, 13/11/21	5	250	
2.	Farmers Training		12	360	
3.	Media coverage		4	Mass	
4.	Training for extension functionaries		-	-	

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2021 and Rabi 2021-2022:

A. Technical Parameters:

[illegible]

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
1	GT-10, Line sowing, of black seeded sesamum recommended dose of fertilizer, seed treatment, Use of micronutrient and neem oil and need based plant protection measures	14280	32850	18570	2.3	17460	45260	27800	2.59
2	Dharani, Line sowing with recommended dose of fertilizer, rhizobium culture, use of micro nutrient and need based plant protection measures	51475	81585	30110	1.58	56254	115440	59186	2.05

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1	Sesamum, GT-10	6200	30	73	500	-	Day-to-day Expenditure	25
2	Groundnut Dharani	20800	650	55.50	-	-	Household Expenditure	38

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters						
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is technology acceptable to all in the group/village	Suggestions, for change/improvement , if any	
1	GT-10Line sowing, of black seeded sesamum recommended dose of fertilizer, seed treatment, Use of	Very much suitable for Kharif Season	Black colour of seed coat	Good	No	Yes	No	

	micronutrient and neem oil and need based plant protection measures						
2	Dharani, Line sowing with recommended dose of fertilizer, rhizobium culture, use of micro nutrient and need based plant protection measures	Suitable for Summer season	High yield & Oil content	Good	No	Yes	No

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Black seeded, High yielding, Good marketability of Sesame	Higher yield & Oil content	More yield & oil content than local variety	Farmers are satisfied with the performance of the variety and colour of the seed.
High shelling % (75-77), Oil content(50%), drought tolerant, moderate stature	Higher yield & Oil content	Higher yield, oil content, shelling % than local variety	Farmers are satisfied with the performance of the variety

F. Extension activities under FLD conducted in CFLD Sesamum (Kharif)

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Training	26/7/2021, Amasaranga, 28/7/21 Deogaon 30/7/21 Damkuda	19
2	Method Demonstration	5/8/21, 7/8/21, 9/8/21 Damkuda, Deogaon	19
3	Field visit	14/9/21, 25/9/21	19
4	Field Day	24/10/21, Deogaon	50

Extension activities under FLD conducted in CFLD Groundnut (Summer)

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Training	29/1/22, 3/3/2022 at Gailo village, Subdega Block	60
2	Method Demonstration	2/2/2022	30
3	Field visit	29/1/22, 8/2/2022, 3/3/2022, 24/3/2022	
4	Field Day	31/3/2022	50

- B. Sequential good quality photographs (as per crop stages i.e. growth & development)**
- C. Farmers' training photographs**
- D. Quality Action Photographs of field visits/field days and technology demonstrated.**



CFLD Sesamum

J. Details of budget utilization

Crop (provide crop wise nformation)	Items	Budget Received(Rs.)	Budget Utilization(Rs.)	Balance (Rs.)
Sesamum	i) Critical input	48,800/-	25000	Nil
	ii) TA/DA/POL etc. for monitoring		12000	Nil
	iii) Extension Activities (Training, Field day)		6800	Nil
	iv)Publication of literature		5000	Nil
	Total		48800	Nil
Groundnut	i) Critical input	1,20,000/-	90943	
	ii) TA/DA/POL etc. for monitoring		18357	
	iii) Extension Activities (Training, Field day)		10700	
	iv) Publication of literature			
	Total		120000	Nil

3.3 Achievements on Training (Including the sponsored and FLD training programmes):

A) Farmers and farm women (on campus)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

B) Rural Youth (on campus)

[illegible]

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others (Organic Farming)	1	6	0	6	4	0	4	13	2	15	23	2	25
Others (Agricultureself Employment)	1	4	0	4	0	0	0	9	0	9	13	0	13
Total	6	15	13	28	8	14	22	31	22	53	54	49	103

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization	1	6	9	15	0	0	0	0	0	0	6	9	15
Information networking among farmers													
Capacity building for ICT application	1	22	0	22	0	0	0	0	0	0	22	0	22
Management in farm animals													
Livestock feed and fodder production													
Household food security (Mushroom)	1	0	1	1	0	8	8	0	6	6	0	15	15
Other													
Total	3	28	10	38	0	8	8	0	6	6	28	24	52

D) Farmers and farm women (off campus)

[illegible]

[illegible]

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management													
Integrated water management													
Integrated Nutrient Management	6	20	19	39	8	13	21	56	64	120	84	96	180
Production and use of organic inputs	2	4	12	16	3	4	7	08	29	37	15	45	60
Management of Problematic soils													
Micro nutrient deficiency in crops	1	6	0	6	3	0	3	21	0	21	30	0	30
Nutrient Use Efficiency													
Balance Use of fertilizer	1	6	1	7	1	11	12	6	5	11	13	17	30
Soil & water testing	1	4	16	20	1	0	1	4	5	9	9	21	30

[illegible]

[illegible]

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Planting material production													
Bio0agents production													
Bio0pesticides production													
Biofertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital	3	0	0	0	5	1	6	53	7	60	58	8	66
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL	31	38	62	108	20	82	100	252	405	657	377	551	928

E) RURAL YOUTH (Off Campus)

[illegible]

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others													
Total	1	1	2	3	2	6	8	4	10	14	7	18	25

F) Extension Personnel (Off Campus)

[illegible]

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other													
Total	3	15	10	25	3	0	3	12	5	17	31	15	46

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs	3	0	0	0	5	1	6	53	7	60	58	8	66
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL	31	38	62	100	20	82	102	252	405	657	310	549	859

ii. RURAL YOUTH (On and Off Campus)

[illegible]

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition	3	1	5	6	4	14	18	6	20	26	11	39	50
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others (Organic Farming)	1	6	0	6	4	0	4	13	2	15	23	2	25

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others (Agriculture self Employment)	1	4	0	4	0	0	0	9	0	9	13	0	13
Total	6	15	13	28	8	14	22	31	22	53	54	49	103

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	2	12	2	14	2	0	2	10	4	14	25	6	31
Integrated Pest Management	1	3	8	11	1	0	1	2	1	3	6	9	15
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization	1	6	9	15	0	0	0	0	0	0	6	9	15
Information networking among farmers													
Capacity building for ICT application	1	22	0	22	0	0	0	0	0	0	22	0	22
Management in farm animals													
Livestock feed and fodder production													
Household food security	1	0	1	1	0	8	8	0	6	6	0	15	15
Other													
Total	6	43	20	63	3	8	11	12	11	23	59	39	98

Please furnish the details of training programmes as Annexure in the proforma given below

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agronomy	PF	Application of Herbicide in greengram	1	Off	17	8	25	17	8	25
Agronomy	EF	Recent advances in millet production	1	Off	14	4	15	10	1	11
Agronomy	EF	Recent advances in pulse production	1	Off	10	5	15	2	3	5
Agronomy	RY	Vermicomposting	1	Off	7	18	25	6	16	22
Agronomy	RY	Organic Farming	1	On	23	2	25	17	2	19
Agronomy	PF	Mgt of weed in pyra crop	1	Off	1	24	25	1	20	21
Agronomy	PF	Scheduling of irrigation in greengram	1	Off	0	25	25	0	24	24
Agronomy	PF	Improved agronomic practices for DSR	1	Off	25	5	30	19	4	23
Agronomy	PF	Integrated weed mgt in DSR	1	Off	30	0	30	22	0	22
Agronomy	PF	Improved agronomic package of practices for Ragi cultivation	1	Off	21	9	30	20	8	28
Agronomy	PF	Improved package & practices in Maize	1	Off	17	13	30	13	9	22
Agronomy	PF	Improved package & practices in Arhar	1	Off	2	28	30	1	22	23
PLANT PROTECTION	PF	Disease & Pest mgt in mustard	1	Off	12	13	25	11	08	19
PLANT PROTECTION	PF	Disease & Pest mgt in Groundnut	1	Off	13	12	25	11	9	20
PLANT PROTECTION	EF	Recent advances in New Chemicals using Rice crop	1	Off	6	9	15	3	1	4
PLANT PROTECTION	PF	Mgt of sucking pest in Greengram	1	Off	2	23	25	2	23	25

PLANT PROTECTION	PF	Mgt of pod borer in greengram	1	Off	8	17	25	8	17	25
Agril. Extn	PF	Improved groundnut cultivation	1	Off	28	2	30	28	1	29
Agril. Extn	RY	Self employment opportunities in agriculture	3	On	13	0	13	9	0	9
Agril. Extn	EF	Application of new media in extn	1	on	22	0	22	13	0	13
Agril. Extn	EF	Motivation & Communication skills for extension personnel	1	on	6	9	15	1	6	7
Agril. Extn	PF	Formation & mgt of FPOs	1	Off	19	6	25	19	6	25
Agril. Extn	PF	Formation & mgt of FPOs	1	Off	21	4	25	18	1	19
Agril. Extn	PF	Formation & mgt of FPOs	1	Off	16	0	16	16	0	16
Home Science	RY	Method & structure of storage of pulses	1	Off	0	15	15	0	15	15
Home Science	EF	Value chain analysis in mushroom	1	Off	0	15	15		15	15
Home Science	PF	Paddy straw mushroom cultivation for income generation	1	Off	20	10	30	19	5	24
Home Science	PF	Paddy straw mushroom cultivation for income generation	1	Off	15	15	30	15	15	30
Home Science	PF	Post harvest mgt of paddy straw mushroom bed	1	Off	0	30	30	0	20	20
Home Science	PF	Planning & mgt of nutri garden	1	Off	0	30	30	0	25	25
Home Science	PF	Nutritional garden for nutritional security	1	Off	0	30	30	0	25	25
Home Science	RY	Mushroom production :Doubling the farmers income & nutritional	3	On	4	11	15	4	8	12

		security								
Home Science	RY	Value addition	3	On	7	13	20	5	13	18
Soil Science	PF	Micro & secondary nutrient application in Rice	1	Off	30	0	30	24	0	24
Soil Science	PF	Vermicomposting	1	Off	7	23	30	7	23	30
Soil Science	RY	Techniques of vermiculture & Vermicomposting	3	On	7	8	15	3	0	3
Soil Science	PF	Importance of soil testing & balanced fertilizer application in crops	1	Off	13	17	30	7	16	23
Soil Science	PF	Integrated nutrient mgt in cole crops	1	Off	18	12	30	15	12	27
Soil Science	EF	Soil related constraints & their amelioration for sustainable crop production	1	Off	11	9	20	6	5	11
Soil Science	EF	Recent advances in fertilizer mgt in field crops	1	Off	8	12	20	2	5	7
Soil Science	PF	INM in pulses	1	Off	3	27	30	3	17	20
Soil Science	PF	INM in Maize	1	Off	11	19	30	4	13	17
Soil Science	PF	INM in Banana	1	Off	13	17	30	6	14	20
Soil Science	PF	INM in Brinjal	1	Off	21	9	30	21	9	30
Fishery	PF	Trg on fish seed rearing & prodn of yearling	1	Off	0	25	25	0	24	24
Fishery	PF	Trg on fish feed & nutrient mgt in fish pond	1	Off	0	25	25	0	14	14
Fishery	PF	Trg on fish seed rearing & prodn of yearling	1	Off	0	26	26	0	14	14
Fishery	PF	Trg on fish feed & nutrient mgt in fish pond	1	Off	0	30	30	0	28	28

H) Vocational training programmes for Rural Youth
a) Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Vermicompost	Production of organic inputs	Techniques of vermiculture & vermicomposting	3	7	8	15	VermiT ank	7	7	8
Mushroom	IGA	Mushroom production : Doubling of farmers income & nutritional security	3	4	11	15	Mushroo m unit	15	15	
Honey Bee	IGA	Scientific Bee Keeping	14			50	Bee box	18	18	

*Training title should specify the major technology /skill transferred

biopesticides,													
biofertilizers etc.													
Repair and maintenance of farm machinery & implements													
Rural Crafts													
Seed production													
Sericulture													
Mushroom cultivation	1	0	3	3	1	3	4	3	5	8	4	11	15
Nursery, grafting etc.													
Tailoring, stitching, embroidery, dying etc.													
Agril. Para-workers, para0vet training													
Other													
Total													
Agricultural Extension													
Capacity building and group dynamics													
Other													
Total													
Grand Total	3	5	12	17	4	6	10	9	14	23	18	32	50

I) Sponsored Training Programmes

a) Details of Sponsored Training Programme

Sl.No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of participants	Sponsoring Agency
					PF/RY/EF			
1	Button Mushroom Cultivation	IGA	October	3	RY	1	30	ATMA, Sundargarh
2	Mushroom production for increasing farmers income	IGA	November	3	RY	1	30	ATMA, Sundargarh
3	Techniques of vermiculture & vermicomposting	IGA	November	3	RY	1	30	ATMA, Sundargarh
4	Scientific Honey bee Keeping	IGA	March	14	RY	2	50	National Bee Board

b) Details of participation

[illegible]

Livestock production and management													
Animal Nutrition Management													
Animal Disease Management													
Fisheries Nutrition													
Fisheries Management													
Other													
Total													
Home Science													
Household nutritional security	1	1	0	1	0	3	3	12	14	26	13	17	30
Economic empowerment of women													
Drudgery reduction of women													
Other (Button Mushroom Cultivation)	1	9	3	12	7	1	8	8	2	10	24	6	30
Total													
Agricultural Extension													
Capacity Building and Group Dynamics													
Other	2												50
Total													
Grant Total	3	18	9	27	7	4	11	29	23	52	54	36	140

3.4. A. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	3	78	36	114	48	8	3	11	86	39	125
KisanMela											
KisanGhosthi	3	41	34	75	62	4	2	6	45	36	81
Exhibition	2	112	31	143	27	8	9	17	120	40	160
Film Show	11	128	49	177	36	11	2	13	139	51	190
Method Demonstrations	8	69	121	190	61	2	9	11	71	130	201
Farmers Seminar											
Workshop											
Group meetings	26	612	219	831	60	5	2	7	617	221	838
Lectures delivered as resource persons	21	428	172	600	47	42	64	106	470	246	716
Advisory Services	24										94536
Scientific visit to farmers field	111	742	418	1160	37	9	12	21	751	439	1190
Farmers visit to KVK	876	561	315	876	43	0	0	0	561	315	876
Diagnostic visits	12	71	57	128	27	8	7	15	79	64	143
Exposure visits											
Ex-trainees Sammelan	2	41	19	60	62	3	1	4	44	20	64
Soil health Camp	1	30	20	50	42	8	4	12	38	24	62
Animal Health Camp											
Agri mobile clinic											
Soil test campaigns											
Farm Science Club Conveners meet											
Self Help Group Conveners meetings											
MahilaMandals Conveners meetings											
Celebration of important days (specify) (AkshayaTrutiya, ICAR Foundation day, OUAT Foundation day, Women in	11	149	64	213	46	28	31	59	177	95	272

agriculture day, World food day, World Soil day, Agriculture Education day, Kisan Diwas, Mushroom Day, Independence Day, Republic Day)											
Sankalp Se Siddhi											
Swatchta Hi Sewa	9										
Mahila Kisan Divas	1	7	18	25	55	4	3	7	11	21	32
Any Other (Specify)											
Total	1121	3069	1573	4642	653	140	149	289	3209	1741	4950

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	18
Radio talks	12
TV talks	6
Popular articles	8
Extension Literature	6
Other, if any	

3.5 a. Production and supply of Technological products

Village seed

[illegible]

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Paddy(Kharif'20)	Pratikshya	22.0		2	3	3	5	5	2	10	10
Paddy(Kharif'21)	Pratikshya	45.0		2	3	3	5	15	12	20	20
Grand Total											

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Vegetable seedlings											
Cauliflower	NS-555	14887	14887	11	2	46	21	33	12	90	35
Cabbage	F1-Hybrid (Green Express)	12085	12085	9	0	24	17	36	8	69	25
Tomato	Ark Rakshyak, Ark Samrat, Laxmi, Utkal kumari	15452	15452	24	9	79	26	121	14	224	49
Brinjal	Swaragini (W.R), Utkal, F1 Hyb. Brinjal. No.38,	16550	16550	9	2	34	19	47	11	90	32
Chilli	Ragini, Nun-2074 (F1 Hyb), Daiya 619 F1, ArkaHarita F1	13638	13638	3	7	49	27	61	22	113	56
Drumstick	Bhagya, PKM-1	11487	11487	2	0	127	68	29	43	158	111
Onion	Bhima Super	10000	10000	3	7	49	27	61	22	113	56
Papaya	CO-3, Red lady, Red Ruchi,	963	14445	3	7	49	27	61	22	113	56
Banana	G-9	1180	11800	2	0	127	68	29	43	158	111
Others (Marigold)	BM-1	13250	9	27	12	82	29	124	17	233	58
Grafted Brinjal		1250		8	1	11	8	27	3	46	12
Grafted Capsicum		1250		1	8	8	11	3	27	12	46
Grafted Chilli		1250		5	4	24	4	17	3	46	11
Grafted Tomato		1250		4	5	4	24	3	17	11	46
Mushroom		1145		24	17	49	34	62	26	135	77
Mushroom Spawn (Paddy straw)		4617		8	1	11	8	27	3	46	12
Mushroom Spawn		3000		4	5	4	24	3	17	11	46

(Paddy straw)											
Sweetcorn		1172		9	7	134	75	36	50	179	132
Vegetables (Bulk)		1920		7	11	53	31	65	26	125	68
Total		113346	110353	148	92	900	489	754	344	1802	925

Production of Bio-Products

Name of product	Quantity	Value (Rs.)	No. of Farmers benefitted							
	Kg		SC		ST		Other		Total	
			M	F	M	F	M	F	M	F
Bio-fertilizers (Vermicompost)	2814	42,210	2	0	21	11	41	26	64	37
Bio-pesticide										
Bio-fungicide										
Bio-agents (Vermi)	69	34500	2	0	17	8	24	11	43	19
Others, please specify.										
Total										

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Dairy animals											
Cows											
Buffaloes											
Calves											
Others (Pl. specify)											
Small ruminants											
Sheep											
Goat											
Other, please specify											
Poultry											
Broilers											
Layers											
Duals (broiler and layer)	Kadaknath	1800	162000	8	2	74	9	26	13	108	24

[illegible]

3.5. b. Seed Hub Programme-“Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India”

i) Name of Seed Hub Centre:

Name of Nodal Officer :	
Address :	
e-mail :	
Phone No. :	
Mobile :	

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2020						
Rabi 2020-21						
Summer/Spring 2021						
Kharif 2021						
Rabi 2021-2022						

iii) Financial Progress

Fund received (2017-18, 2018-19, 2019-20, 2020-21, 2021-22)	Expenditure (Rs. in lakh)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2017-18	5,00,000			
2018-19	5,00,000			
2019-20	5,00,000	1,54,596/-		
2020-2021		5,45,475/-		
2021-2022	4,82,000	2,29,511		

iv) Infrastructure Development

Item	Progress
Threshing Floor	Work in progress

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

Item	Title	Author's name	Number	Circulation
Research paper				
Seminar/conference/ symposia papers				
Books				
Bulletins	Monthly Agro Advisory	KVK, Sundargarh-1	Mass	
News letter	Chasbas	KVK, Sundargarh-1	1000	1000
Popular Articles	1.Ragi cultivation for nutritional security & Income generation 2. Mushroom cultivation in Odisha	KVK, Sundargarh-1 Dr. L Pradhan	2000	2000
Book Chapter				
Extension Pamphlets/ literature	Ragi Cultivation, Sesamum Cultivation	KVK, Sundargarh-1	100	100
Technical reports	APR, AAP, SAC, ZREAC, SLREAC, ZONAL, MPR, QPR		7	
Electronic Publication (CD/DVD etc)	Vermicompost, IFS, Honey bee, Mushroom	KVK, Sundargarh-1	5	
TOTAL				

N.B.: Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(B) Details of HRD programmes undergone by KVK personnel:

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.					
2.					

3.7. Success stories/Case studies, if any (two or three pages write-up on 1-2best case(s) with suitable action photographs)

Name of farmer	Mrs. NavneetaSena
Address	Chungimati, Rajgangpur, Sundargarh
Contact details (Phone, mobile, email Id)	9437332759
Landholding (in ha.)	1.0
Name and description of the farm/ enterprise	Vermicomposting
Economic impact	She is earning Rs 50000/- in six months from 2 vermi tanks size (4x4x2) each. Apart from vermicomposting she is also engaged in mushroom & vegetable cultivation.
Social impact	Currently President of Maa Vaishnavi SHG. She has motivated 40 members of 4WSHG's Awarded as best Vermicompost entrepreneur from Collector & DM, Sundargarh on the eve of International Womens' Day during 2021
Environmental impact	She effectively utilized agricultural waste for vermicompost production there-by maintaining clean environment
Horizontal/ Vertical spread	She has motivated 40 members of 4WSHG's. Inspired by her success 4 more members have started vermicomposting in their backyard.



Mrs. Navneeta Sena in her Vermicompost Unit

KVK Scientist visiting her unit



Receiving Award on IWD 2021

Name of farmer	Mrs. Susmita Naik
Address	Knjrima, Sadar Block, Sundargarh
Contact details (Phone, mobile, email Id)	8847806649
Landholding (in ha.)	2.0
Name and description of the farm/ enterprise	Mushroom, Vegetables & Backyard poultry, Mini rice mill, Honey bee, Grocery Shop
Economic impact	She is earning Rs 1,00,000/- yearly from mushroom cultivation, Rs 50, 000/- from backyard poultry(Rearing of Kadaknath& Aseel) and also earning Rs 50,000/- from Vegetable Cultivation.
Social impact	She is the president of President of Mirabai WSHG and is a master trainer in mushroom cultivation. Awarded as best Mushroom entrepreneur from Collector & DM, Sundargarh on the eve of International Womens' Day during 2021
Environmental impact	She effectively utilized agricultural bi-product for mushroom production there-by maintaining clean environment
Horizontal/ Vertical spread	She has motivated 36 nos of WSHGs of Kinjrima and mobilized them for undertaking mushroom activities & provided 4 women in her mushroom unit. She is a successful entrepreneur and is a role model for other women in the village as well as near-by villages.



Mrs. Susmita Naik in her Mushroom Unit



Mrs. Susmita Naik taking training at KVK

Receiving Award on IWD 2021

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology
1	Products using cow dung and urine	Preparation of soap, incense stick, mosquito repellent from cow dung and urine	Preparation of soap, incense stick, mosquito repellent from cow dung and urine

3.9. a. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1			

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1	Rice	1200	Organic rice	230	Yes (local mandi)
2	Ragi	100	Organic ragi	100	Yes (local mandi)
3	Mustard	100	Organic mustard	100	Yes (local mandi)
4	Vegetables	100	Organic vegetables	100	Yes (local mandi)

3.10. Indicate the specific training need analysis tools/methodology followed by KVKs

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed
1	Group interactive method, power point method, method demonstration, Extension literature and training manual	Training, FLD, OFT, Extension activities

3.11. a. Details of equipment available in Soiland Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
1.	Mridaparikshak	2
2.	Smart Soil Moisture Sensors	1
3.	Automatic Nitrogen Analyser	1
4.	Electronic Precision Balance	1
5.	Double beam UV -VIS digital Spectrophotometer	1
6.	Refrigerated Centrifuge	1
7.	Physical Balance	1
8.	Distilled Water Unit	1
9.	Flame Photometer	1
10.	pH Meter - Micro Controller based	1
11.	Conductivity Meter	1
12.	Rotary Shaker	1
13.	(Platform Type)	1
14.	Mechanical Stirrer	1
15.	Bouyoucus Hydrometer	1
16.	Hot Air Oven	1
17.	top pan Balance	3
18.	Thermometer	1
19.	Water Quality analyser	1
20.	Vortex	1
21.	Magnetic Stirrer	1

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
-	78	78	56	8	-

3.11.c. Details on World Soil Day

Sl.No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1.	Soil health card Distribution	50	0	0	20	20



Guest on the Dias



Participant in the meeting



Soil health card distribution

3.12. Activities of rain water harvesting structure and micro irrigation system

No of training programme	No of demonstrations	No of plant material produced	Visit by the farmers	Visit by the officials
1	1	200	1200	20

3.13. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology
-	-	-	-

3.14. RAWE/ FETprogramme - is KVK involved? (Y/N)

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

3.15. List of VIP visitors (Minister/ MP/MLA/DM/VC/ZilaSabhadipati/Other Head of Organization/Foreigners)

Date	Name of the person	Purpose of visit
13/1/2021	Nikhil Pawan Kalyan, Collector & DM	SAC Meeting
17.09.2021	Smt Kusum Tete, MLA, Sadar	International Yr. of Millets & Tree Plantation Programme
17.09.2021	Sj. Bhawani Shankar Bhoi, MLA, Talsara	International Yr. of Millets & Tree Plantation Programme
	Naveen Naik, Regional Director, NYK	Collaboration & Convergence with KVK
29.12.2021	Prof. Prasnnajeet Mishra, DEE, OUAT	SAC Meeting
29.12.2021	Dr. M P Nayak, JD(Info), DEE, OUAT	SAC Meeting
25.12.2021	Mr. Tankadhar Tripathy, South Eastern Coalfields Limited (SECL)	Visiting the farm activities and procurement of planting materials
03.04.2021	Prof. Lalit Mohan Garnayak, Ex-DEE, OUAT	Attending OMBDAC meeting

IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Popularization of short duration NRRI developed rice variety Sahbhagidhan, duration 110days yield potential 35q/ha	350	95	2600	4100
Popularisation of brown manuring in rice increases yield by 12%	112	72	2800	3600
Popularisation of herbicide Bispyribac sodium increases yield by 14%	68	85	3500	5600
Popularisation of herbicide oxyflurofen in groundnut increases the yield by 20%	120	95	8000	12000
Popularisation of Ragi variety Bhairavi among tribal farmers of the district having a potential yield of 25q and 110days duration.	450	65	1500	3200
Popularisation of herbicide Imazethapyr (10%SL) in pulses (Blackgram, greengram, Arhar) increased yield upto 20%.	120	95	8000	12000
Popularisation of herbicide LONDAX power in upland paddy increases yield upto 16%	120	95	8000	12000
Popularisation of Vanraja and Rainbow Rooster breed of coloured poultry for backyard rearing for income generation. Body growth upto 3.5 kg within 4 months.	180	28	2600	3800
Popularisation of small vermicomposting units 3X3 m units for Tribal farmers to support their backyard nutritional garden and recycling of household waste.	68	71	1800	2500
Popularisation of paddy straw and oyster mushroom among tribal farmers from threshed straw for additional support and increased nutrition, about 800 – 1200 gms of mushroom is obtained from one unit	208	40	300	2000
Popularisation of wheat bran as a substitute for paddy straw mushroom cultivation				
Popularisation of off season cauliflower cultivation for higher profit upto 20%	52	90	18000	32000
Popularisation of Kharif onion variety Bhima super potential yield 300 q/ha increases profit upto 15%	120	90	28000	50000
Popularisation of Use of fruit fly trap + spraying of Deltamethrin @ 2ml/ltr before ripening of mango for fruit fly management in mango	48	80	15000	22000
Popularisation of Spraying of Spiromesifen @ 2ml/ltr during attack of sucking pest for leaf curl virus management in Chilli	24	80	5000	9000

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread
OUAT developed medium long rice variety Pratikshaya,	>70,000ha, 487 villages
short duration NRRI developed rice variety Sahbhagidhan,	>30,000ha, 317 villages
short duration upland paddy variety <i>Khandagiri</i>	> 60,000, 542 villages
Brown manuring in rice	>15,000 ha, 125 villages
Application of herbicide Bispyribac sodium increases yield by 14%	>4,500 ha , 130 villages
Application of herbicide oxyfluofen in groundnut.	>1,500 ha, 200 villages
Ragi variety Bhairavi	>1200 ha, 80 villages
Line sowing in maize cultivation	>200 ha, 56 villages
Application of herbicide Imazethapyr (10%SL) in pulses (Blackgram, greengram, Arhar)	>4000ha, 500 villages
Application of herbicide LONDAX power in upland paddy	>100, 12 villages
Vanraja and Rainbow Rooster breed of coloured poultry for backyard rearing f	>120 villages
Backyard smallvermicomposting units 3X3 m units for Tribal farmers to support their backyard nutritional garden and recycling of household waste.	>120 units, 51 villages
Paddy straw and oyster mushroom	>100 units, 250 villages
IPM -02-03 variety of Moong	>80ha, 10 villages
Blackgram variety PU-31	> 950ha, 500 villages
Use of wheat bran as a substitute for paddy straw mushroom cultivation	>100 units, 400 villages
Popularisation of off season cauliflower cultivation for higher profit upto 20%	
Popularisation of Kharif onion variety Bhima super potential yield 300 q/ha increases profit upto 15%	
Popularisation of Use of fruit fly trap + spraying of Deltamethrin @ 2ml/lt before ripening of mango for fruit fly management in mango	
Popularisation of Spraying of Spiromesifen @ 2ml/lt during attack of sucking pest for leaf curl virus management in Chilli	

Give information in the same format as in case studies

4.2. Details of impact analysis of KVK activities carried out during the reporting period

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms
1	Backyard poultry var. Kadaknath	Market demand due to quality of the breeds	Farmers acceptance for market demand due to its medicinal value
2	Mushroom production in threshed straw	Getting remunerative enterprise from agriculture bio-product	Utilization of threshed straw for income generation activity.
3	Popularization of Ragi variety Arjuna	Higher yield and income	Replacing the existing varieties due to high yield
4	Popularization of draught tolerant rice variety Swarna shreya	Higher yield than local variety and better grain quality	Able to overcome the draught stress
5	Popularization of Arhar variety PRG-176	Higher yield and shorter duration compared to local variety	Replacement of long duration existing variety UPAS-120
6	Popularization of Tomato variety Arkarakshyak and Arka Samrat	Higher yield, disease resistance and better keeping quality than ruling varieties.	Resistant to Wilt and leaf blight, higher keeping quality
7	Popularization of cold tolerance Oyster mushroom variety <i>H. ulmarius</i>	Higher yield in low temperature	Better performance in lower temperature less than 20°C

4.4. Details of innovations recorded by the KVK

Thematic area	Small implements
Name of the Innovation	Cycle wheel hoe weeder
Details of Innovator	Single wheel hoe weeder made from front cycle wheel alongwith the handle increases the weeding efficiency by 2 hours in one ha. Area
Back ground of innovation	with heavy migration of farm families and members from the tribal villages to work in industries inside the district and to other parts of the country, there is acute shortage of manpower during the critical stages of vegetable cultivation for the intercultural operations. Weeding operations contribute about 40% of the total cost of production
Technology details	Wheel hoe weeder was modified from used bicycle, handle and front wheel along with the fork, a new hoe was welded to the base of the pedal
Practical utility of innovation	the wheel hoe weeder increased the efficiency by 40 % in intercultural operations especially in vegetables and other line sown crops. One person can now cover 0.2 ha in one hour

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Mushroom & Mushroom Spawn
Name & complete address of the entrepreneur	Jatindra Barwa At/Po – Kunmuru, Rajgangpur, Dist – Sundargarh, PIN 770017
Role of KVK with quantitative data support:	• Skill development on Mushroom production, • Facilitation of his skill upgradation with SAU(OUAT) for mushroom spawn production, • Collaborative linkage with line department(Horticulture for Infrastructure development, cold storage, poly house), Agriculture for borewell & other implements, bank-finance. • Five day residential training at KVK for skill updation.
Timeline of the entrepreneurship development	2015-16 :The youth showed interest for mushroom cultivation & approached KVK 2015-16 :Attended training at KVK sponsored by ATMA 2016-17 : Started a small mushroom production Unit in his Backyard Attended advance training on mushroom production at CTMRT, OUAT, Bhubaneswar 2017-18 : Started Mushroom spawn production unit after attending training at CTMRT, OUAT 2018-19 : Attended a 5 day residential training at KVK, Sundargarh-1 Evolved as a master trainer on mushroom for the district 2019-20 : Received state level Award for best emerging entrepreneur 2020-21 : Expanded his spawn & mushroom production unit with assistance from Horticulture & Agriculture Department 2021-22 : The only mushroom spawn producer of the district and has now stepped into liquid mushroom spawn production
Technical Components of the Enterprise	• Mushroom spawn laboratory having capacity of 100 bottles/bags per day • Mushroom production unit (Paddy straw & Oyster) of 2000 beds and 500 bags • Packaging house
Status of entrepreneur before and after the enterprise	Before taking-up the enterprise he was earning Rs 50,000/- per annum from Paddy & Arhar, however after the enterprise he is earning Rs 6 lakhs per annum.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	His enterprise has developed into one of the most advanced spawn production unit in the district which employs about 9 labourers on a daily basis along with two skilled worker helping him for spawn production and accounting/managing his business. His enterprise has complete infrastructure for mushroom & spawn production storing and marketing along with modern equipments like laminar flow, Auto clave, well furnished inoculation chamber office rooms, office room etc
Horizontal spread of enterprise	His enterprise supports about 100 mushroom farmers through inputs like spawn, media (Paddy straw, covering sheets, bags etc).He has himself developed his enterprise single handedly which has created a niche among mushroom farmers.

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
ATMA	Functional, SREP preparation ,BAP , OFT , Monitoring & Evaluation. Samacharpatra publication, Farmer – Scientist Interaction, Kisan mela, Exhibition and Farmer fair, Training to FW and IS
Agriculture Department	Functional Linkage, member in many agriculture committee of the district, Training, Collection of data, Farmer fair and Exhibition,
Horticulture Department	Functional linkage, member in committee of the district, Training, Collection of data, Farmer fair and Exhibition,
Fishery Department	Functional linkage, member in committee of the district, Training, Collection of data,
Veterinary Department	Functional linkage, member in committee of the district, Training, Collection of data,
NABARD	Functional linkage, expert review, formation of FPOs, Farmers clubs,
Watershed/Soil Conservation	Functional linkage, member in committee, livelihood support programmes under watersheds, data collection,training
NGOs	Functional linkage, Training to farmers/ Farm women, data collection, livelihood programmes, capacity building

5.2. List of special programmes undertaken during 2021by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

(b) Programmes for infrastructure development

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
District Mineral Fund	To establish IFS Unit and Hi-tech Horticulture in KVK Farm	Fund sanctioned	DMF, Sudargarh	98.82 Lakh

(b) Programme for other activities (training,FLD, OFT, Mela, Exhibition etc.)

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
ATMA	Farmer-Scientist Interaction	February 2021	ATMA, Sundargarh	20,000
NBB	Skill Development Training on Scientific Honey Bee Rearing	March 2021	NBB	4,60,575

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1. Performance of demonstration units (other than instructional farm)

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq.mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
	Poly house	2011	88	Local/Hybrid	Seedlings	1,00,000	30,000	2,00,000	
	Mushroom Spawn Unit	2011	15		Spawn		39000	60000	
	Mushroom Production Unit	2008	100		Mushroom		10,000	35,000	
	Vermi Compost Unit	2008	22		Compost		30000	75,000	
	Poultry Units (Brooding & Rearing)	2009	112	Kadaknath, Assel	Bird		1,0000	1,50,000	
	Shade net	2012	80	Grafted	Saplings		12,000	30,000	
	RWHS(Farm pond)	2005	880		Fish				
	Organic Unit (Vermiculture)	2020	40	Eisenia foetida	Vermi		8000	25000	
	Guava Unit	2019	6080	VNR Bihi, Arkamridula, L-49, ASafeda	Fruit		2000	5000	
	Apple ber Unit	2020	2250	VNR appleber	Fruit				Fruiting not started
	Mango Unit	2018	5160	Amrapali, Dasseri, Malika, Nelanchal	Fruit		2000	9000	
	Medicinal Garden	2018	220		Saplings				
	Banana Unit	2018	1920	G-9,	Fruit		1500	5000	
	Papaya Unit	2018	364	Red lady, Ranchi dwarf	Vegetable		6000	21000	
	Total								

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy	12/7/2021	4/12/2021	0.8	Pratikshya	Seed (CS)	41 (Expected)	45000	86100	Not processed

6.3. Performance of Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	75	10000	30000	
2	Vermiculture	15	1500	7500	

6.4. Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Poultry	Kadakhnath/Aseel	Bird	1200 nos	63,000	1,14,000	

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
October	30	2	
November	30	2	
December	30	2	
Total :			

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed: Yes

No. of staffquarters: 9

Date of completion: 1990

Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI	QVII	QVIII	QIX
July 2018	✓	✓	✓	✓	✓	✓	✓	✓	Vacant
October 2014									
June 2021									
May 2015									
August 2015									
July 2021									
October 2015									
July 2021									

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
KVK (Contingency)	State Bank of India	Sundargarh	39454551215
Revolving Fund	State Bank of India	Sundargarh	30773698636

7.2. Utilization of funds under CFLD on Oilseed (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April, 2021
	Kharif	Rabi	Kharif	Rabi	
Sesamum	48,800		48,800		Nil
Groundnut Summer (2021)		1,20,000		1,20,000	Nil

7.3. Utilization of funds under CFLD on Pulses (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2021
	Kharif	Rabi	Kharif	Rabi	

2019.5. Utilization of KVK funds during the year 2021-22(Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	98,00,000	73,50,000	73,50,000
2	Traveling allowances	1,20,000	90,000	90,000
3	Contingencies	20,00,000	12,27,000	12,50,260
A	Stationary	1,20,000		1,00,000
B	POL			
C	Training			
D	Trg Material	90,000		75,000
E	FLD	45,000		30,000
F	OFT	45,000		30,000
G	TSP	17,00,000	10,02,000	10,0000
H	Swachhta Expenditure/ SAP Fund	15,000	0	15,000
TOTAL (A)		1,19,65,000		
B. Non-Recurring Contingencies				
1	Equipment & Furniture	2,40,000		
2	Works (Threshing Floor)	5,00,000		
3	Libnrary	10,0000		
4				
TOTAL (B)		7,50,000		
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

7.5. Status of revolving fund (Rs. in lakh) for last three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2019-20	2,51,381	6,47,695/-	1,54,596/-	4,93,099/-
2020-21	2,14,014	7,91,575/-	5,45,475/-	2,46,100/-
2021-22 Till 31 st Dec 2021)	4,64,412	2,26,992/-	2,29,511	2,26,992/-

7.6. (i) Number of SHGs formed by KVKs : NA

(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities

(iii) Details of marketing channels created for the SHGs

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	With both
Training on Preparation of Vermicompost	1	Kharif	✓	✓	✓
Training on Mushroom production for income generation	1	Kharif	✓	✓	✓
Button mushroom Cultivation	1	Kharif	✓	✓	✓

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
BLB	Paddy				
Blast	Paddy				
Sheath Blight	Paddy				

8.2. Prevalent diseases in Livestock/Fishery

Name of the disease	Species affected	Date of outbreak	Number of death/ Morbidity rate (%)	Number of animals vaccinated	Preventive measures taken in pond (in ha)

9.1. Nehru Yuva Kendra (NYK) Training

Title of the training programme	Period		No. of the participant		Amount of Fund Received (Rs)
	From	To	M	F	

9.2. PPV & FR Sensitization training Programme

Date of organizing the programme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration

9.3. *mKisanPortal* (National Farmers' Portal/ SMSPortal)

Type of message	No. of messages	No. of farmers covered
Crop	12	94536
Livestock	1	
Fishery	1	
Weather	8	94536
Marketing		
Awareness	1	94536
Training information	1	200
Other		
Total		

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	30000
2.	No. of farmers registered in the portal	
3.	Mobile Apps developed by KVK	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	

9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
15/12/2021 to 31/12/2021	Campus cleaning, Awareness in villages and schools, Planting with school children, Office cleaning, Waste Management, Clean cultivation

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office		
2. Basic maintenance	7	700
3. Sanitation and SBM		
4. Cleaning and beautification of surrounding areas	10	3000
5. Vermicomposting/Composting of biodegradable waste management & other activities on generate of wealth for waste	4	2000
6. Used water for agriculture/ horticulture application		
7. Swachhta Awareness at local level	3	3600
8. Swachhta Workshops	1	1500
9. Swachhta Pledge		
10. Display and Banner	9	2700
11. Foster healthy competition		
12. Involvement of print and electronic media		
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)		
14.No of Staff members involved in the activities	10	1500
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
Total	44	15000

9.6. Observation of National Science day

Date of Observation	Activities undertaken

9.7. Programme with SeemaSurakshaBal/ BSF

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used
B.S. High School	3.12.2021	Importance of Agriculture	Laptop, Projector

Give good quality 1-2 photograph(s)



9.9. Details of Swachhta Hi Suraksha programme (16-31.12.2021) organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Campus cleaning, Awareness in villages and schools, Planting with school children, Office cleaning, Waste Management, Clean cultivation,	3	79		

9.10. Details of MahilaKisan Divas programme(15.10.2021) organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Training-cum-Awareness programme	3	35	-	-

9.11. No. of Progressive/Innovative/Lead farmer identified (category wise)

Sl.No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1	Prafulla Patel	Village – Samina, Block –Sadar Sundargarh, Mob-9437799799	Rice seed grower & Pisciculture
2	Nirmal Naik	Village – Mahulpali, Block –Tangarpali Sundargarh, Mob-9437152336	Rice seed grower & Animal Husbandry
3	Sushanta Naik	Village – Bandubahal, Block –Sadar Sundargarh, Mob-9776775959	Mushroom & Mushroom Spawn production, Rice seed grower
4	Hirod Patel	Village – Ratanpur, Block –Tangarpali Sundargarh, Mob-7750930801	IFS
5	Jatindra Barwa	Village-Kunmuru, Block – Rajgangpur Sundargarh, Mob-8763075863	Mushroom & Mushroom Spawn production

9.12. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1	Training hall charges	12000	Self finance
2	Training hall charges	7000	NBB
3	Training hall charges	6000	ATMA, Sundargarh
4	Farmer's Hostel Charges	10500	NBB
5.	Farmer's Hostel Charges	18000	ATMA, Sundargarh

9.13. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1	Peripheral Development	Establishment of Hi-tech Nursery at KVK	District Mineral Foudnation, Sng		Under Construction
2	Peripheral Development	Establishment of Pond based IFS Unit at KVK	District Mineral Foudnation, Sng		Under Construction

9.14. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
21.6.2010	IMD	Fully functional and regular weather data are being recorded

9.15. Contingent crop planning

Name of the state	Name of district/ KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Odisha	Sundargarh-1	Drought Mitigation strategy	4	80	1. Joint visit Of SS&Head alongwith Agriculture Dept. 2. Prepared a contingent plan for drought affected areas 3. Crop substitution by Ragi & Mustard seed to affected farmers

10. Report on Cereal Systems Initiative for South Asia (CSISA) : Not applicable

a) Year:

b) Introduction / General Information:

	Title	Objective	Treatment details	Date of sowing	Replication	Result with photographs
Experiment 1						
Experiment 2						
Others (If any)						

11. Celebration of World Food Day in 2021

Sl. No.	Activities undertaken	No. of VIPs attended	No. of participants		
			M	F	T
1	Seminar-cum-Training programme		5	30	35
2	Distribution of planting materials		5	20	25

12. Progress report of NICRA KVK (Technology Demonstration component) during the period
(Applicable for KVKs identified under NICRA) : Not applicable

Natural Resource Management

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	

Crop Management

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted									Remarks		
		SC		ST		Other		Total					
		M	F	M	F	M	F	M	F	T			

Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	

Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks	
			SC		ST		Other		Total				
			M	F	M	F	M	F	M	F	T		

Capacity building

Thematic area	No of Courses	No of beneficiaries								
		SC	ST		Other			Total		
		M	F	M	F	M	F	M	F	T

Extension activities

Thematic area	No of activities	No of beneficiaries								
		SC	ST		Other			Total		
		M	F	M	F	M	F	M	F	T

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK

Sl. No.	Name of the Award	Year	Conferring Authority	Amount	Purpose

Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
1	Best Organic grower	Mr. Manoj kuMahakul	2020	Vice Chancellor, OUAT, Bhubaneswar		OUAT Foundation day
2.	Women entrepreneur in Vermicomposting	MrsNibedita	2021	District collector& DM		International Women's day
3	Women entrepreneur in Mushroom	MrsSasmita Naik	2021	District collector& DM		International Women's day
4	Women entrepreneur in Backyard poultry	Mrs Mithila Munda	2021	District collector& DM		International Women's day
5	Best Agricultural worker	Ms LaxmiKullu	2021	District collector& DM		International Women's day
6	Best Agricultural worker	MsManjulataKhadia	2021	District collector& DM		International Women's day
7	Best Agricultural worker	Ms PadminiOram	2021	District collector& DM		International Women's day

14. Any significant achievement of the KVK with facts and figures as well as quality photograph

15. Number of commodity based organizations/ farmers' cooperative society/ FPO formed/ associated with during last one year (Details of the group/society may be indicated)

Sl. No.	Name of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
	Chhedalgan, Farmer Producer Company At – Sahebdera PO-Laikera Via Lephripara Dist-Sundargarh		8 th July 2016	Production & marketing in cluster approach for Turmeric, Millets, Pulses	• Mushroom Cultivation • Nutrigarden • Poultry • Maize • Arhar	654	10.0	

16. Integrated Farming System (IFS)

Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
1	Fruit based farming system	1.0	Banana – 100q	12000	25000	3	100
			Mango – 15q	20000	60000		
			Guava – 2q	8000	10000		
			Vermicompost – 50q	25000	75000		
			Mushroom – 1q	9000	18000		
			Poultry – 600 birds	90000	180000		

18. a) Information on **ASCI** Skill Development Training Programme, if undertaken during 2021 NA

Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants						Whether uploaded to SIP Portal (Y/N)	Fund utilized for the training (Rs.)
				SC		ST		Other			
				M	F	M	F	M	F		

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs.**, if any) if undertaken during 2021

Thematic area of training	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	
IGA	Techniques of vermiculture & vermicomposting	18	0	0	3	0	4	8	7	8	15	20,000
IGA	Mushroom production : Doubling of farmers income & nutritional security	18	0	0	3	8	3	0	6	8	14	20,000
Value addition	Value addition of vegetables	18	4	14	6	20	1	5	11	39	50	7,500
IGA	Scientific Honey Bee Rearing	42	3	2	6	4	11	4	20	10	30	1,44,976

19. Information on NARI Project(if applicable)

NA

Name of Nodal Officer	No. of OFT on specified aspects	Title(s) of OFT	No. of FLD on specified aspects	No. of capacity development programme on specified aspects	Total no. of farm women/ girls involved in the project	Details of Issues related to gender mainstreaming addressed through the project

20. Specific programmes for the period**i. Achievements in SCSP (Scheduled Caste Sub-Plan) (Specific for SC farmers only) NA**

Sl. No.	Activity	No. of SC farmers/ stakeholders		
		Male	Female	Total
1	On- farm trials			
2	Frontline demonstrations			
3	No. of Training programmes for farmers			
4	Farmers trained			
5	No. of Training programmes for Extension Personnel			
6	Extension Personnel trained			
7	Participants in extension activities			
8	Distribution of seed			
9	Planting material distributed			
10	Livestock strains and fingerlings distributed			
11	Soil, water, plant, manures samples tested			
12	Mobile agro-advisory provided to farmers			
13	Other (Please specify)			

ii. Capacity building of farmers through training on Profitable Dairy Farming and Livestock Management (In case your KVK has Scientist (Animal/Veterinary Science)) NA

Sl. No.	Title of the training	Date/ Duration	No. of Participants							
			SC		ST		Other		Total	
			M	F	M	F	M	F	M	F

iii. Status of Natural Farming

Crop/ Commodity involved in Natural farming	Area covered under such farming (ha)	No. of farmers practicing Natural farming at present	Details of individual farmers (Name and Contact No.)	Organic component/ inputs used for such farming

iv. Farmer Producer Organizations

a) General information

Sl. No.	Name & Address of FPO	Name & Contact No. of Head of FPO	No. of farmer members of FPO			Crop/ Enterprise dealt with by FPO	Kind of support provided by KVK in running/ starting of FPO (in brief)
			M	F	T		
1	Chhedalgan, Farmer Producer Company At – SahebderaPO-Laikera Via LephripadaDist-Sundargarh	Gangadhar Kishan 9937168244	372	282	654	Turmeric Millets Pulses	• Mushroom Cultivation • Nutrigarden • Poultry • Maize • Arhar

b) Financial information

Name & Address of FPO	Date of Registration	FPO Registered (Y/N)	Application Submitted for Registration (Y/N)	No. of share-holding farmer members	Equity Amount Collected (Rs.)	Bank Account Opened (Y/N)	Board Reconstituted after attaining minimum membership (Y/N)
Chhedalgan, Farmer Producer Company At – SahebderaPO-Laikera Via LephripadaDist-Sundargarh	8 th July 2016	Yes	Yes	654	10,00,000	Yes	Yes

v. Nutri-gardens (Village wise)

Sl. No.	Name of village	Name of crop	Area under the crop (acre)	No. of farmers			Whether bio-fortified variety of crop used (If yes, mention variety & crop)
				M	F	T	
1	Damakuda	Papaya, Drumstick & Banana Tomato, Bean, brinjal, chilli, Bitter gourd, Bottle gourd, Cabbage cauliflower, Onion, Garlic, Spinach & Leafy vegetables	0.5	-	10	10	No
2	Sahebdera	Papaya, Drumstick & Banana Tomato, Bean, brinjal, chilli, Bitter gourd, Bottle gourd, Cabbage cauliflower, Onion, Garlic, Spinach & Leafy vegetables	0.5		10	10	No
3.	Phuladhudi	Papaya, Drumstick & Banana Tomato, Bean, brinjal, chilli, Bitter gourd, Bottle gourd, Cabbage cauliflower, Onion, Garlic, Spinach & Leafy vegetables	0.5		10	10	No

vi. Progress report on scientific beekeeping (2020-21 & 2021-22)

Name of KVK	Total budget allotted (Rs.)	Total budget utilized (Rs.)	Physical Training organized				Online Training organized			
			No. of training		No. of total participants		No. of training		No. of total participants	
				M	F	T		M	F	T
Sunargarh1	4,60,575	1,44,976	1	12	18	30				

21. Any other programme organized by KVK, not covered above

Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants

22. Good quality action photographs (with proper caption) of overall achievements of KVK during the year (best 10)

ACTIVITY PHOTOGRAPHS OF 2021

ON FARM TESTING



Assessment of suitable varieties of tomato for long term keeping



Different method of pasteurization of straw for controlling of Inkcaps in paddy straw mushroom bed in Kharif

FRONT LINE DEMONSTRATION



Demonstration on Vermicomposting

Brooding management of Backyard poultry



Demonstration of Oyster mushroom var. (*H. ulmarius*) for Income generation



Demonstration on Nutritional Garden for Nutritional security



Demonstration of Scientific Rearing of Honeybee



Demonstration on Maize variety Kalinga Raj



Demonstration of CFLD (Sesame)

Trainings Conducted



Extension Activities Conducted

OTHER EXTENSION ACTIVITIES**National Mushroom Day****PMS telecast programme on Natural farming (Zero budget natural farming)****OTHER EXTENSION ACTIVITIES****Workshop on DFI****Constitution Day****World Food Day****Mahila Kisan Divas**

OTHER EXTENSION ACTIVITIES



Awareness campaign on Climate resilient technologies and Methods



Celebration for Best Performing State ,Odisha Millet Mission



Campaign on Nutri-garden and



International Women's Day

OTHER EXTENSION ACTIVITIES



Live Webcasting of National Horticultural Fair



RE Linkage Meeting



Swachhata Pakhwada



NEW INITIATIVE.... Opening of outlet for marketing of farm produce


