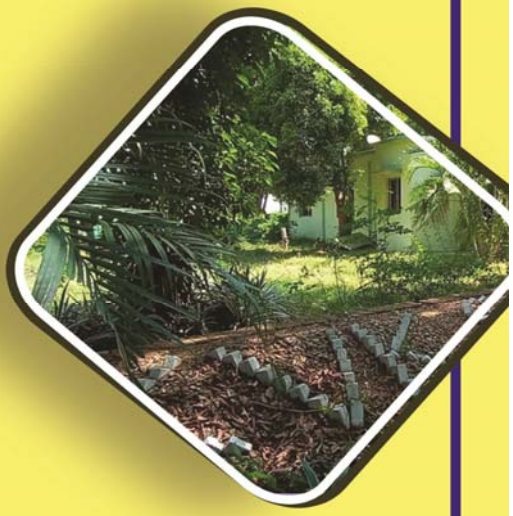
ANNUAL REPORT



January-December 2023

KRISHI VIGYAN KENDRA, SUNDARGARH-1

Odisha University of Agriculture & Technology

भाकृअनुप
ICAR

ANNUAL REPORT 2023 (January-December 2023)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
At/Po – Kirei, KVK, Sundargarh-I - 770073	9438041580		kvksundargarh1.ouat@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
OUAT, Bhubaneswar			deanextension@ouat.ac.in

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

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

1.4. Year of sanction of KVK: - 12th March 2004

1.5. Staff Position (**as on 31st December, 2023**)

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. LaxmipriyaPradhan	Senior Scientist & Head	Home Science	92500	16/5/18	Temporary	Others
2	Scientist	Mr. David James Bage	Scientist	Agriculture. Extension	95300	8/8/2012	Temporary	ST
3	Scientist	Dr. Manoj Kumar Jena	Scientist	Soil Science	92500	08/06/2021	Temporary	Others
4	Subject Matter Specialist	Dr. DibyenduMondal	Subject Matter Specialist	Agronomy	61300	09/06/2021	Temporary	SC
5	Scientist(Ag.Engg)	Mr. Tarak Ch. Panda	Scientist	Agril. Engineering	19050	29/7/2022	Temporary	Other
6	Scientist(Horticulture)	Mr. Ashis Ku Mohanty	Scientist	Horticulture	92500		Temporary	
7	**Scientist**	**Vacant**						
8	Programme Assistant	Bidyadhar Tudu	Programme Assistant	Forestry	38700		Temporary	Others
9	Computer Programmer	Arun Kumar Mishra	PA(Computer)		60400	1/7/2011	Temporary	Others
10	Farm Manager	Mayukh Adhikary	Farm Manager	Entomology			Temporary	
11	**Accountant / Superintendent**	**Vacant**						
12	Stenographer	Kamal lochanMohanta	Steno-cum-Comp. Operator		39800	09/06/2021	Temporary	Others
13.	Driver	Bhramarbar Sa	Driver-cum-Mechanic		26800	10/8/2008	Temporary	
14.	Driver	Jitendra Kumar Sethy	Driver-cum-Mechanic		23800	09/06/2021	Temporary	SC
15.	Supporting staff	GajananChhanda	Peon-cum-Watchman		24300	18/6/2013	Temporary	OBC
16.	**Supporting staff**	**Vacant**					**Temporary**	

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1.5
2.	Under Demonstration Units	1.5
3.	Under Crops	2.0
4.	Orchard/Agro-forestry	1.2
5.	Others with details	Forest Plantation-3.0Pisciculture – 0.4, Wasteland-7.24
	Total	**16.84**

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
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.	AdministrativeBuilding	✓							
2.	Farmers Hostel					Yes	372	Yes	RKVY
	Farmers Hostel (New)	✓							ICAR
3.	Staff Quarters (6)					Yes	6600	Yes	ICAR
4.	Piggery unit								
5	Fencing					Yes	2000	Yes	ICAR
6	RWHS					Yes	3000	Yes	ICAR
7	Threshing floor					Yes	185.8	Yes	ICAR
8	Farm Godown (New)					Not started	34.83	NO	ICAR
9.	Dairy unit								
10.	Poultry unit (New)					Yes	25	Yes	ICAR
11	Poultry unit (Brooding unit)					Yes	25	Yes	RKVY
11.	Goatery unit					Yes	27.8	Yes	RKVY
12.	Mushroom Lab (Equipments only)					Yes	35	Yes	ICAR
13.	Mushroom production unit					Yes	50	Yes	RKVY
14.	Shade house					Yes	80	Yes	ICAR
15.	Soil test Lab (Equipments)					Yes	35	Yes	ICAR

* 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
Maruti Suzuki Dzire	2022	7,98,451	12192	Running Condition
Hero Honda Motorcycle	2005	50000	-	Not in usable condition

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Soil Lab equipments & instruments	2015-16	12,00,000	working	ICAR
Solar Dryer	2019-20	20,000	working	ICAR
b. Farm machinery				
Power Tiller	2015-16	2,87,000	working	ICAR
Tractor	2022-23	7,50,000	Yet to Receive	ICAR
c. AV Aids				
Computer Desktop	2015-16	50,000	working	ICAR
Chairman Unit	2021-22	22800	Working	ICAR
Desktop	2021-22	49000	working	ICAR
Laptop	2021-22	52000	working	ICAR
Portable Audio System	2022-23	19000	Working	ICAR
Motorised Projector Screen	2022-23	13000	Working	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Power Weeder	2015-16	2,36,000	Running	ICAR
Brush Cutter	2015-16	50,000	Running	ICAR
Power Weeder	2016-17	86,000	Running	ICAR
Brush Cutter	2011-12	45,000	Running	ICAR
Cultivator	2016-17	30,000	Running	ICAR
MB Plough	2015-16	32,000	Running	ICAR
Power Saw	2021-22	15,000	Running	ICAR
Prunning 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
Rotavator	2015-16	2,40,000	Working	ICAR
Lawn mower	2021-22	33999	working	ICAR
Chaff Cutter	2021-22	25000	working	ICAR

1.8. Details of SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	16.12.2022	31	KVK should provide trainings and demonstration on value addition of millets to SHGs. KVK should conduct more no of OFT & FLD, Training & Awareness programmes on millets	➢ KVK has provided 9 nos of trainings under CBSAE development project under OMBADC and also in TSP programme to F/FW and to In-service personnels ➢ 2 no of Demonstration on ragi variety Arjuna and INM in Ragi conducted in Balisankara, Kutra, Lephripara Block covering 9ha. ➢ 3 nos. Millet recipe contest organised in Kutra, Balisankara and Hemgir Blocks covering 270 WSHG members ➢ 1 OFT & training on value addition of millets shall be conducted in February'24 ➢ Visit of CBSAE team to millet demonstration unit at Balisankara ➢ 15 nos of awareness programme conducted and attended by KVK Scientists
			Demonstration of millets (Crop cafeteria) at KVK campus	➢ KVK developed a millet crop cafeteria in KVK campus with 11 nos of varieties.(Finger Millet, Kodo Millet, Fox-tail Millet, Little Millet, Pearl Millet, Proso Millet) ➢ 7 nos of exposure visit by farmers farmwomen and in-service personnel from Sundargarh & Jharsuguda district
			KVK should include training & awareness programmes on farm mechanization, water management, water use efficiency	➢ 1 No of training on rain water harvesting and water conservation to members of Watershed at village Karlaghati of Subdega Block
			KVK should conduct demonstrations in drudgery reducing	➢ 1 no of training provided to the F/FW in Kutra

			farm implements	block on comfort elevation of farmwomen using farm implements ➢ 5 nos of awareness programme on use of Ragi thresher-cum-pearler (OUAT Made) for comfort elevation of farmwomen conducted
			Bee-Keeping should be promoted in the district	➢ 1 training on Scientific rearing of Honey Bee (7 days) duration conducted for Rural Youth ➢ KVK has developed 3 nos of entrepreneur having 35 nos of Bee boxes and are producing 105 kgs of honey on an average per season. ➢ 10 nos of Bee boxes has been provided under TSP programme
			Suitable agro-forestry models should be tested through OFT for different agro-ecological situations of the district. Pineapple, Custard apple, stone apple etc should be promoted in forest areas of the district	➢ Demonstration on Pineapple in Mango based Agro Forestry system in Jauramunda, Falsakani village of Kutra Block and in KVK Campus covering 1.0ha. ➢ 2 nos of training on different agro-forestry models have been conducted for F/FW involving 60 nos participants. ➢ 1 nos of field day has been conducted on Pineapple IN Mango based Agro Forestry system
			Emphasis should be given for Horesegram in rainfed dryland areas of the district	➢ Awareness on inclusion of Horsegram in crop diversification programmes of Agril. & F.E. department as well different training programmes in KVK. ➢ Last year district has achieved 25`000ha horsegram area and this year plan to achieve 27900ha during Rabi 2023-24
			Demonstration on Pusa /NRRI decomposer should be conducted by KVK	➢ 1 no of OFT has been conducted in 1ha area of Sadar Block involving 7 farmers ➢ 1 demonstration conducted in KVK campus
			KVK should conduct training & demonstration on value addition of Oyster mushroom	➢ 1 no of 3 days skill dvelopment training has been conducted with 30 nos of rural youth (Dry mushroom, Mushroom pickle, Mushroom Pakoda, Soup powder and mushroom nuggets)
			Large scale awareness on vermicomposting should be done	➢ One 5 days skill development training programme under CBSAE development (OMBADC) to 20 nos of rural youth

				➢ One three days skill development training programme conducted for 25 nos. of Rural youths. ➢ 10 nos. of awareness programmes organised by OFSDP-II involving 1000 nos. of VSS members
			Scientists of KVK should participate inagriculture and allied programmes of AIR, Rourkela for better dissemination of technical knowledge to farming community	➢ KVK scientists are regularly delivering talks in Kisan Bani programme at AIR, Rourkela
			Off-season vegetable cultivation should be promoted in the district	➢ Kharif cauliflower and Tomato has been promoted in our adopted village Tamibahal of Sadar Block. ➢ Technical guidance has been provided by KVK for Off-season vegetable cultivation in Kaseijharan, VSS members of Lephripara Block

** Salient recommendation of SAC in bullet form*
Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2023)

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1	Mahuljore	Sadar	Mahuljore	Rice-Vegetables,	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/Ragi- Pulses, Mushroom, Vermicompost,Honeybee,	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	Sahebdera	Lephripada	Sahrbdera	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	Jauramunda	Kutra	Jauramunda,	Rice, Vegetables, Mustard, greengram, Mushroom, Vermicompost,Honeybee,	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	Ujjalpur	Tangarpali	Phuldhudi	Rice, vegetables, Mushroom, Vermicompost,Honeybee, Fishery	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

Sl. no.	Item	Information
1	Major Farming system/enterprise	Rice-fallow Rice-Sesamum- fallow, Rice-Chickpea, Rice-greengram, 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 soil, Mixed red and yellow soil, Lateritic Soil,
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Rice: 26.65 q/ha, Ragi, 3.67 q/ha, Maize 25.79 q/ha, Greengram: 3.88 q/ha, Blackgram: 4.54 q/ha, Sesamum: 3.99 q/ha, Groundnut: 16.55/ha, Banana: 237.4 q/ha, Guava: 88.7 q/ha, Mango: 63.1 q/ha, Papaya: 146.5 q/ha, Okra: 109 q/ha, Onion: 127.7 q/ha, Potato: 132.4 q/ha, Tomato: 144.7 q/ha
6	Mean yearly temperature, rainfall, humidity of the district	Min-(10-25^{0}C), Max -(30-45.2^{0}C) ,1422.4mm,
7	Production of major livestock products like milk, egg, meat etc.	Milk -49.486 ‘000MT; Egg-58.68 Million; Meat--14.34 ‘000MT

2.b. Details of operational area / villages (2023)

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2023) for its development and action plan

Name of village	Block	Action taken for development
Barangakacchar	Bargaon	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 by asset creation in the village on drudgery reduction small tools, community nursery
Mahuljore	Sadar	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 9SHGs by asset creation in the village on drudgery reduction small tools, community nursery
Jauramunda	Kutra	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
Lahandabud	Sadar	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 7 SHGs by asset creation in the village on drudgery reduction small tools, community nursery
Sahebdera (DFI)	Lephripara	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 8 SHGs by asset creation in the village on drudgery reduction small tools, community nursery
Phuldhudi	Tangarpali	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 3 SHGs by asset creation in the village on drudgery reduction small tools, community nursery
Barangakacchar	Bargaon	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 by asset creation in the village on drudgery reduction small tools, community nursery

2.1 Priority thrust areas

S. No	Thrust area
1.	Promoting diversified cropping pattern in uplands (Oilseeds/Pulses/Maize)
2.	Varietal substitution in major field crops and vegetables
3.	Promoting Integrated Weed and Nutrient management practices in major field crops
4.	Promoting Integrated Pest and Disease Management strategy in major crops
5.	To emphasize on cultivation of lucrative non-traditional, off-season and exotic vegetables
6.	To promote farm mechanization and improve use of implements for drudgery reduction
7	To promote alternate livelihood options for resource poor farm house holds
8	To promote farming system approach

3. TECHNICAL ACHIEVEMENTS

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

OFT — No. of technologies tested:

Number of OFTs		Number of farmers									
Target	Achievement	Target	Achievement								
			SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T
9	9	89	6	10	41	18	6	8	53	36	89

FLD — No. of technologies demonstrated:

Number of FLDs		Number of farmers									
Target	Achievement	Target	Achievement								
			SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T
20	20	211	14	28	74	84	21	19	109	121	240

Training

Number of Courses		Number of Participants									
Target	Achievement	Target	Achievement								
			SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T
80	81	370	167	97	552	561	519	366	1289	987	2276

Extension activities

Number of activities		Number of participants									
Target	Achievement	Target	Achievement								
			SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T
600	625	600	3480	2954	12360	13640	6955	1068	24075	17662	41737

Impact of capacity building

Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								
Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T
9	9	2	1	7	5	3	3	12	8	20

Impact of Extension activities

Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								
Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T
40000	41737									

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
45	48.6	100000	103000

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
		0.005	0.00405

* 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	2						
Books							
Bulletins							
News letter	1	500					
Popular Articles							
Book Chapter	1	Mass				Energy Budgeting of crops under rainfed agriculture	
Extension Pamphlets/ literature							
Technical reports	11	250					
Electronic Publication (CD/DVD etc)	5	Mass					
Booklets	5	2500					
TOTAL							

3.1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Assessment of PSB and VAM on Groundnut
2.	Problem diagnosed	Low yield of groundnut due to poor nutrient management and water stress Low phosphorous availability due to fixation in acid soil
3.	Details of technologies selected for assessment/refinement(Mention either Assessed or Refined)	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)	AINP on Soil Biodiversity and Biofertilizers, 2010
5.	Production system and thematic area	Rice- Groundnut, INM
6.	Performance of the Technology with performance indicators	No. of nodules / plant, No. of pods / plant, Pod yield, B:C Ratio
7.	Final recommendation for micro level situation	Application of PSB & VAM helps in better utilization of nutrients & produces higher pod yield of groundnut.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Farmers training, Method Demonstration & satisfied with the technology

*Thematic area: INM1*Problem definition: Low yield of groundnut due to poor nutrient management and water stress Low phosphorous availability due to fixation in acid soil

Technology assessed: Assessment of biofertilizers in Groundnut

Table:

Technology option	No. of trials	Yield component		(%) of Yield increase over FP	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No of pods/Plant	Pod Yield (q/ha)					
FP	7	16.0	16.8	-	55,000	98,280	43,280	1.79
TO1		20.8	21.6	28.57	57,000	1,26,360	69,360	2.22
TO2		21.4	22.7	35.11	58,500	1,32,795	74,295	2.27

Results: TO2 option gives higher yield.

OFT-2

1.	Title of On farm Trial	Assessment the performances of FPOs with various level of task and commodity to enhance the net return
2.	Problem diagnosed	Unorganized farmers fetching low price due to distress sale of farm produce
3.	Details of technologies selected for assessment/refinement(Mention either Assessed or Refined)	FP - FPO dealing with a single commodity with a single task i.e., Vegetable-Marketing
		TO1 - FPO dealing with single commodity with multi-task i.e., Vegetable- sorting, grading, packing, branding and marketing
		TO2 - FPO dealing with multi-commodity with single task i.e., Pulses, Vegetable, Enterprises-Marketing
		TO3 - FPO dealing with multi-commodity with multi-task i.e., Pulses, Crops Vegetable, Enterprises- sorting, grading, packing, value addition, branding, leveling and marketing
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	
5.	Production system and thematic area	Vegetable-vegetable-vegetable, Rice-pulses, Market aggregation
6.	Performance of the Technology with performance indicators	Easy to produce (Score out of 10),Easy to sell (Score out of 10) Farmers interest to become a member (Score out of 10),Business planning and market linkage with various national and international companies (Score out of 10),Share capital contributed (Score out of 10),Total share capital deposited in the bank,No of FIGs
7.	Final recommendation for micro level situation	Continuing for next year, ensuing season
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Training

Thematic area: Agril marketing

Problem definition: Low Price realization of Vegetables

Technology assessed: Performances of FPOs with various level of task and commodity to enhance the net return

Table:

Results	***1 (%)**	***2 (%)**	***3 (%)**	***4 (%)**	***5 (%)**	***6 (%)**
FP : Farmers marketing their produce individually through intermediaries	23.33	33.33	36.67	26.67	20.00	10.00
TO1: FPO dealing with a single commodity with a single task i.e., Vegetable/ Pulse/ or any other commodity –Marketing	60.00	50.00	43.33	40.00	40.00	43.33
TO2: FPO dealing with multi-commodity with single task i.e., Pulses, Vegetable, Enterprises-Marketing.	66.67	60.00	53.33	46.67	50.00	53.33
TO3: FPO dealing with multi-commodity with multi-task i.e., Pulses, Crops Vegetable, Enterprises- sorting, grading, packing, value addition, branding, leveling and marketing	93.33	83.33	66.67	63.33	93.33	90.00

Results:

*Observation Parameters: 1. A farmer to become a member 2. Contribution for share capital,
3. Better business planning, 4. Access to technology, 5. Access to inputs in time,
6. Better marketing facility

OFT- 3

1.	Title of On farm Trial	Assessment of Herbicides in Pigeon pea
2.	Problem diagnosed	Yield loss due to high weed pressure
3.	Details of technologies selected for assessment / refinement (Mention either Assessed or Refined)	Hand weeding at 40-50 DAS
		FP - Hand weeding at 40-50 DAS
		TO1 - Pre-emergence application of Pendimethalin 30 EC @ 0.75 kg a.i./ha at 3 DAS followed by hand weeding at 50 - 60 DAS
		TO2 - Pre-emergence application of Pendimethalin 30EC @ 0.75 kg a.i./ha at 3 DAS followed by post-emergence application of Imazethapyr 10 SL @ 100 g a.i./ha
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	SLREAC Report, OUAT-2020-21
5.	Production system and thematic area	Pigeonpea – fallow, Weed Management
6.	Performance of the Technology with performance indicators	No. of Weeds /m^2 ^{W}eed control efficiency, No. of cobs per plant, Cob length, Seeds/Cob. Test weight (g), Yield q/ha and Economics
7.	Final recommendation for micro level situation	TO-2 gives better control of weeds and resulted highest WCE (83.51 %) over TO-1. TO-2 gives highest yield (15.1 q/ha) in comparison to other treatments.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Training, Method Demonstration, Farmers are happy with the technology

Thematic area:

Problem definition: Yield loss due to high weed infestation

Technology assessed: Introduction of some new herbicides

Table:

Technology option	No. of trials	Yield component			No of Pods/Plant	No of seeds/ Pod	Biological Yield	Grain Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Weed Bio-Mass		WCE (%)								
TO1	7	22.9 (4.84)*	28.3 (5.36)	-	177.6	3.9	72.9	14.3	53529	100100	46571	1.87
TO2		9.1 (3.09)	9.9 (3.21)	76.29	189.7	4.3	80.6	14.6	40395	102200	61805	2.53
TO3		8.7 (3.07)	5.4 (2.37)	83.51	193.2	4.3	81.9	15.1	38576	105700	67124	2.74

Results:




OFT-4

1.	Title of On farm Trial	Assessment of nano urea liquid fertilizer in transplanted rice
2.	Problem diagnosed	Low yield due to Improper use of urea fertilizer
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP - Application of N:P: K(80:40:40) kg/ha
		TO1 - 50 % recommended N + 100 % P and K as basal application and two sprays Nano urea @ 0.2 % tillering and PI stage
		TO2 - 75 % recommended N + 100 % P and K as basal application and two sprays Nano urea @ 0.2% at tillering and PI stage
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Annual Report (IFFCO Project) 2020-21, AAU, Annual report 2019-20
5.	Production system and thematic area	Rice- Greengram, INM
6.	Performance of the Technology with performance indicators	Initial and post harvest soil test value No. of effective tillers /sq m, No. of filled grain per panicle, 1000 grain weight (gm), Yield (q/ha) , Economics
7.	Final recommendation for micro level situation	TO2 resulted in higher grain yield of Rice with saving of 25% N dose
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Training, Method Demonstration, Farmers are happy to see best result

Thematic area: INM

Problem definition: Due to increased soil acidity through continuous urea application, and loss of applied urea through leaching and volatilization

Technology assessed: Nano Urea spaying in Transplanted paddy

Table:

Technology option	No. of trials	Yield component No. of ETB/hill	Grain Yield (q/ha)	(%) increase in Yield over FP	Cost of cultivation(Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	8.0	41.7		62500	91031	28531	1.46
TO1		8.8	43.8	5.03	63000	95615	32615	1.52
TO2		9.5	45.6	9.35	63500	99545	36045	1.57

Results: To increase the efficiency of urea through foliar application

:



OFT- 5

1.	Title of On farm Trial	Assessment of organic inputs in Ragi
2.	Problem diagnosed	Low yield of Ragi due to no use of organic sources of nutrients and pesticides
3.	Details of technologies selected for assessment/refinement(Mention either Assessed or Refined)	FP - FYM @ 2t/ha, no fertilizer & pesticides
		TO1 - Seed treatment with Bijamrut + Soil application of Jibamrut+ Spraying of Brahmastra
		TO2 - Soil application of Sanjibak+Spraying of Neemastra
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	National centre for organic and natural farming, 2020-21
5.	Production system and thematic area	Rice- fallow, Organic Inputs in crops
6.	Performance of the Technology with performance indicators	Initial and post harvest soil test value, No. of effective tillers /sq m, No of filled grain per panicle, 1000 grain weight (gm), Yield (q/ha) ,Economics
7.	Final recommendation for micro level situation	TO1 resulted in higher grain yield of Ragi
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Training, Method Demonstration, Farmers are happy with results

Thematic area: INM

Problem definition: Low yield of ragi due to no use of organic sources of nutrients and pesticides

Technology assessed: Assessment of organic inputs in Ragi

Table:

Technology option	No. of trials	Effective tillers/m^2	Grain Yield (q/ha)	(%) increase in Yield over FP	Cost of cultivation Rs./ha	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	15.6	8.8		15800	33845	18045	2.14
TO1		204	14.2	61.36	19500	54613	35113	2.80
TO2		18.2	12.9	46.59	18700	49613	30913	2.65

Results: TO1 resulted in higher grain yield of Ragi

OFT-6

1.	Title of On farm Trial	Assessment of foliar application of micronutrient in Bittergourd
2.	Problem diagnosed	Small size and deformed fruits
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP - Application of N:P: K@80:40:40 kg/ha
		TO1 - Foliar application of mixture of nutrients involving Zn, Mo, Cu, Fe &Mn (100 ppm each)
		TO2 - Combined foliar application of micronutrients B and Zn @ 100 ppm each
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT, Annual Report, 2014-15,IIVR, Annual Report, 2017-18
5.	Production system and thematic area	Vegetables-Vegetables, INM
6.	Performance of the Technology with performance indicators	Weight of Fruit, No. of fruit/Plant, Yield (q/ha), Net return (Rs/ha), B:C ratio
7.	Final recommendation for micro level situation	TO-1 gives better yield(78.21 q/ha) and resulted highest Net return (Rs.1,52,780) in comparison to other treatments
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Training, Method Demonstration

Thematic area: INM

Problem definition: Due to non-availability of micro nutrients to plants, Small size and deformed fruits are obtained

Technology assessed: Foliar application of micronutrient in Bittergourd

Table:

Technology option	No. of trials	Yield component			Fruit Wt (g)	Fruit Yield/ Vine (kg)	Yield (q/ha)	% increase in yield	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Vine length (cm)	Days to flowering	Fruit length (cm)								
FP		243.13	50	12.90	61.15	1.075	68.24	-	114720	2.27	243.13	50
TO1		316.50	39	16.65	95.05	1.587	78.21	14.61	152780	2.68	316.50	39
TO2		298.16	42	15.21	88.24	1.248	76.64	12.30	144160	2.52	298.16	42

Results: TO-1 gives better yield(78.21 q/ha) and resulted highest Net return (Rs.1,52,780) in comparison to other treatments

OFT-7

1.	Title of On farm Trial	Assessment of the improved techniques for cultivation of Paddy straw mushroom using crumpled straw for yield enhancement
2.	Problem diagnosed	Low yield from Paddy straw Mushroom from crumpled straw
3.	Details of technologies selected for assessment / refinement (Mention either Assessed or Refined)	FP - Rectangular compact method Size-45x60x30,Mushroom production by using crumpled paddy straw -5kg with normal practice (soaking in water 5hrs with 2% calcium carbonate), unknown age of spawn, 3% of dry substrate weight), pulse powder 3% dry substrate weight, BE-8-10%
		TO1 - Square compact Mushroom production by using crumpled paddy straw 5kg, soaking of straw in water for 5hrs in 2% CaCo3, 14-20 days age spawn at 2% of dry substrate weight and Pulse powder (at 2% dry substrate weight), BE-12-14%
		TO2 - Circular compact method Mushroom production by using crumpled paddy straw 5kg, soaking of straw in water for 5hrs in 2% CaCo3, 14-20 days age spawn at 2% of dry substrate weight and pulse powder (at 2% dry substrate weight), BE-12-14%
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore-2012
5.	Production system and thematic area	Backyard, Production Technology
6.	Performance of the Technology with performance indicators	Average weight/button (g),Pin head appearance (days), Biological efficiency (%),Yield (Kg/bed), B:C ratio
7.	Final recommendation for micro level situation	Homogenous moisture level and even bed temperature between layers leads to more pin heads and buttons in Circular Bed with increase in yield of 13%.Circular method of cultivation giving higher result but rectangular compact method is easy for adoption
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Training, Method Demonstration

Thematic area: Production Technology

Problem definition: Improper use of paddy straw

Technology assessed: To assess the suitable improved technology for cultivation of paddy straw using threshed straw for yield enhancement

Treatments	Pinhead appearance (Days)	Yield (kg/100bed)	Biological Efficiency (%)	Cost of production (Rs.per 100 bed)	Gross Return (Rs)	Net Return (Rs/100 bed)	BC Ratio
FP	6.3	61.4	12.28	6,300/-	18420	12120	2.92
TO1	6.4	57.5	11.50	6,300/-	17250	10950	2.73
TO2	6.4	65.4	13.08	6,300/-	19620	13320	3.11

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.	Ragi	ICM	Line transplanting with RDF(60:30:30)	10.0	7.0	2	1	12	3	6	1	20	5	25	
2.	Rice	Weed Mgt.	Pre emergence application of Pretilachlor 50 EC @ 1500 ml/ha, fbPenoxulam 1.02 % + Cyhalofop butyl 5.1 % OD @ 2250 ml/ha @ 25 DAT	2.0	2.0	1	0	6	0	3	0	10	0	10	
3.	Maize	IPM	Application of Azadirachtin 1500 ppm @ 5ml/l, release 20000 T. chilonisparasite at 4-5 days and weekly interval and need base application of Emamectin Benzoate 5 % SG @ 0.4 gm/l.	2.0	2.0	0	1	2	4	0	3	2	8	10	
4.	Rice	INM	STBF + Basal application of ZnSO4 (21% Zn) @25kg/ha + Folicar application of B (20%) @ 1.5g/ltr at flowering stage	2.0	2.0	0	0	1	5	1	3	2	8	10	
5	Ragi	INM	100 % RDF (60:20:20) + application of bio-fertilizers (azospirillum@2lt./ha +PSB @2lt/ha) incubated with 100kg FYM for seven days	2.0	2.0	0	0	3	7	0	0	3	7	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_2O_5	K_2O					
Ragi	Kharif 2023	Irrigated	Sandy loam	285	10.2	172	Fallow	12/7/23	2/11/23	875	48
Rice	Kharif 2023	Irrigated	Sandy loam	238	10	160	Fallow	1.8.23	14.11.23	875	48
Maize	Kharif 2023	Irrigated	Sandy loam	272	9.5	169	Vegetable	20.7.23	30.10.23	875	48
Rice	Kharif 2023	Irrigated	Sandy loam	280	9.2	178	Rice	5.7.23	22.11.23	875	48
Ragi	Kharif 2023	Irrigated	Sandy loam	242	10.1	164	Fallow	15.7.23	1.11.23	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.

Performance of FLD

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
Ragi	ICM	High yielding Ragi variety Arjuna	10	7.0	14.61	9.43	54.9	26134	56190	30056	2.15	21086	36268	15182	1.72
Rice	IWM.	Weed management in transplanted Rice	10	2.0	44.1	40.3	9.43	52606	96270	43663	1.83	52056	87975	35913	1.69
Maize	IPM	Integrated Pest management of Fall Army Worm in Maize	10	2.0	51.4	42.9	19.8	51400	107426	56026	2.09	53369	89661	36292	1.68
Rice	INM	Zn & B application in transplanted rice	10	2.0	48.6	40.5	20.0	67500	106094	38594	1.57	62500	88412	25912	1.41
Ragi	INM	Integrated Nutrient Management in Ragi	10	2.0	15.8	13.2	19.69	21600	60767	39167	2.81	20500	50767	30267	2.48
Total			50	15.0											

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
Groundnut	INM	STBFR + foliar application of combined nutrient spray at 30 & 45 DAS (dissolved 2.5 kg DAP, 1kg ammonium sulphate& 500g borax in 35-40ltr of water for 12 hrs, filter it & make 500liters to spray 1ha area, then mix Planofix @3ml/15ltr of spray solution)	10	2.0	Continuing										
Total	1		10	2.0											

* 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

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
Blackgram	INM	Application of 75 % STBR + foliar application of WSF (18 :18:18) @ 1 % at 25 & 40 DAS	10	2.0	8.94	7.82	14.32	28000	62133	34133	2.22	26000	54349	28349	2.09
	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 crops

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)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Tomato	INM	INM in Tomato	10	1.0	305.4	271.2	12.61	63	54	138000	366480	228480	2.66	132000	325440	193440	2.47
Brinjal	INM	INM in Brinjal	10	1.0	360.2	325.4	10.69	83	76	140000	360200	220200	2.57	135000	325400	190400	2.41
Banana	INM	Bunchfeeding in banana for yield enhance	10	2.0	760.5	665.6	14.26	30.3 (Avg. bunch wt in kg)	26.6 (Avg. bunch wt in kg)	253500	912600	659100	3.60	250000	798720	548720	3.19
Okra	INM	INM in Okra	10	1.0	116.4	102.6	13.45	15.50	11.90	66896	174600	107700	2.61	65211	153900	88689	2.36
Brinjal	IDM	IDM practices for Wilt complex mgt	10	1.0	Result Waiting												
	Total																

Livestock

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.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
Buffalo																	
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl.specify)																	
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

Fisheries

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.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	
Ornamental fishes																	
Others (pl. specify)																	
	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			
				Demo	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Oyster Mushroom production Variety Hyspizygusulmarius) for income generation	20	200 bags	185kg/ 100 beds	150kg / 100 beds	27%	92.5	85%	4500/ 100bag	14800	10300	3.2	4500	12000	7500	2.7
Milky mushroom	Introduction of Milky mushroom (calocybeindica	20	200bag	100kg/bag	-	100%	50.0	-	4700	8000	3300	1.7	-	-	-	-
Button Mushroom																
Vermicompost	Vermicompostin g	10	10	Compost Yield (q/bed/cycle) 15	Compost Yield (FYM) (q/bed/cycle) 15		Composting period 80 days	Composting period (FYM) 240	5000	25000	20000	5.00	1800	7500	5700	4.17
Sericulture																
Apiculture	Honey Bee	10	10	5kg/Box	-	100	Colony division 2/box	-	4200	5500/ box/ 2year	1300	1.3	-	-	-	-
Vegetable seedling raising	Seedling under low cost polytunnel	10	10	Moratility 10	Mortality 55	81.8			4300	14400	10100		1800	7200	5400	
Nutritional Security	Nutritional Garden	10	10	Yield (kg/200m^2 / year) 541	Yield (kg/200m^2 / year) 241	124	Vegetable purchase/ year 71kg	Vegetable purchase/ year 100kg	4500	10820	6320	2.4	3500	4820	1320	1.3
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	Paddy straw Mushroom Production under threshed straw	40	650/100bed	-	Threshed straw has been utilized into a remunerative enterprise
Farm Women	Mushroom Production(Oyster)		185/100bag	150/100bag	This variety have better production than P.sajorcaju
Farm Women	Nutri-garden for Nutritional Security of Farm families	10	541kg/200m2 plot/year	241200m2 plot/year	Tribal farm families consuming 60% of fresh vegetables in their day to day food habit and increase the nutritional security.
Farm Women	Seedling raising under low cost polytunnel	10	10(Mortality)	55(Mortality)	Getting quality seedling round the year.
Farm Women	Vermicomposting	10	Composting period 80 days	Composting period (FYM) 240	Vermicompost is the best organic product, it can be use as an enterprise & farmers getting 4.17 B:C ratio
Pregnant women					
Adolescent Girl					
Other women					
Children					
Neonatal					
Infants					

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 on Integrated Nutrient Management in Tomato

Demonstration on Integrated Nutrient Management in Brinjal

Bunch feeding in banana for yield enhancement

Demonstration on Vermicomposting (TSP)

Demonstration of Scientific Rearing of Honeybee under TSP

Demonstration on low cost portable poly tunnel for vegetable seedling raising

Demonstration of Nutritional Garden for Nutritional Security

Demonstration on high yielding Ragi variety Arjun

Weed management in transplanted Rice

Demonstration on Fall army worm in Maize

Demonstration on Zn & B application in transplanted Rice

Demonstration on INM in Ragi

Demonstration of water soluble fertilizer in Kharif Blackgram

Demonstration on INM in Okra

Demonstration details on crop hybrids : NA

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
Cereals				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (Pl. specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl. specify)										
Total										
Pulses										
Green gram										
Black gram										
Bengal gram										
Red gram										
Others (Pl. specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										

Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (Pl. specify)										
Total										
Commercial crops										
Cotton										
Coconut										
Others (Pl. specify)										
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl. specify)										
Total										

Good quality photographs of FLDs

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Tomato	INM practice reduce chemical fertilizer dose & produced higher yield & good keeping quality
2	Brinjal	INM practice reduce chemical fertilizer dose & produced higher yield
3	Banana	Bunch feeding helps in higher bunch wt. & robust fingers
4	Rice	Soil test based NPK, Zn & B application produced higher grain yield of Rice
5	Ragi	INM practice reduce chemical fertilizer dose & produced higher yield & Quality
6	Blackgram	Spraying of water soluble fertilizer(18:18:18) at 25 & 40 DAS produced higher yield
7	Maize	Integrated module to combat FAW infestation in maize and have observed a satisfactory result over conventional pest management method
8	Brinjal	Integrated module to combat wilt complex in Brinjal and have observed a satisfactory result over conventional pest management method
9	Ragi	High yielding Ragi variety Arjuna gives higher yield under Line transplantation over local variety Jagulei grown under conventional method
10	Rice	Weed management in transplanted rice with Pre emergence application of Pretilachlor 50 EC @ 1500 ml/ha, fb Penoxulam 1.02 % + Cyhalofop butyl 5.1 % OD @ 2250 ml/ha @ 25 DAT showed better control of weeds with higher yield and Net return
11	Mushroom	Production of paddystraw mushroom in threshed straw in rectangular method is easy for adoption with Yield of 650kg/100beds

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	30.10.23	2	100	Ragi harvesting
2.	Farmers Training	9.6.23, 3.8. 2023 and 4.8.2023, 17.8.23, 29.8.23, 1.8.23, 8.9.23, 4.10.23, 10/10/2023& 11/10/23, 12/10/23 and 13/10/23, 7.11.23, 18.12.2023 to 20.12.2023	7	210	Milk Mushroom production INM in Ragi, Micro and secondary nutrient application in rice, Paddy straw mushroom production in threshed straw INM in Pulses Nutritional garden for nutritional security of farm families Low cost polytunnel for nursery raising Techniques of Vermiculture and Vermicomposting
3.	Media coverage	01.04.2023, 01.07.2023, 08.07.2023, 5.8.2023, 30.09.2023, 21.10.2023, 25.11.2023,	6	Mass	Mushroom cultivation, nursery raising, vermicomposting, Milk Mushroom, Poultry rearing
4.	Training for extension functionaries	16.07.2023,	01	20	Mushroom production for Rotary club members

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2023 and Rabi 2022-23:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1	Greengram (Rabi 2022-23)	Local var.	5.3	6.2	5.08	10	Greengram var. IPM-205-7 1.Seed rate of 25 kg per ha 2.Seed treatment with *Rhizobium sp.*@ 20g/kg 3.Post emergence application of Quizalofop Ethyl 5% EC @ 1.5 ml/l 4.Plant Protection to control pod borer application of Emamectin Benzoate 5 % SG @ 0.4 g/l 5.Foliar spray of water soluble NPK (19:19:19) at vegetative stage 6. Foliar application of 0.1 % Boron at flowering stage	25	10	7.8	6.4	7.1	14.52	39.76	40.85
2	Sesamum	Kalika	5.61	4.06	2.37	8.00	Suprava recommended dose of fertilizer & use of micro nutrient and need based plant protection measures	75	30.0	8.2	6.5	8.04	162	278	82.5

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	Greengram var. IPM-205-7 1.Seed rate of 25 kg per ha 2.Seed treatment with *Rhizobium sp.*@ 20g/kg 3.Post emergence application of Quizalofop Ethyl 5% EC @ 1.5 ml/l 4.Plant Protection to control pod borer application of Emamectin Benzoate 5 % SG @ 0.4 g/l 5.Foliar spray of water soluble NPK (19:19:19) at vegetative stage 6. Foliar application of 0.1 % Boron at flowering stage	23000	37100	14100	1.61	26000	49700	29800	1.91
2	Sesamum variety Suprava Broadcasting method, Recommended dose of fertilizer, seed treatment use of micronutrient & neem oil for disease & pest mgt	21000	48442	27442	2.31	24000	69425	45425	2.89

B. 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	Greengram ***IPM-205-7***	7100	460	70	30	120	Education, cultivation, food & medical, Home	3
2	Sesamum (Suprava)	24120	200	86.35	500	800	Day to day expenditure	32

C. 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	***IPM-205-7*** .Seed rate of 25 kg per ha 2.Seed treatment with *Rhizobium sp.*@ 20g/kg 3.Post emergence application of Quizalofop Ethyl 5% EC @ 1.5 ml/l 4.Plant Protection to control pod borer application of Emamectin Benzoate 5 % SG @ 0.4 g/l 5.Foliar spray of water soluble NPK (19:19:19) at vegetative stage 6. Foliar application of 0.1 % Boron at flowering stage	Yes	8.5 out of 10	80%	YMV infection was found	Yes	New YMV resistant variety is required with early maturity
2	**Sesamum Suprava** Broadcasting method, Recommended dose of fertilizer, seed treatment use of micronutrient & neem oil for disease & pest mgt	Yes	8/10	75%	No	Yes	Suitable variety for Kharif Season

D. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Greengram var. IPM-205-7 is high yielding with early maturity and resistant to MYMV	Yield performance is good and tolerant to MYMV over existing practice	Seed quality is better	satisfied (early maturity)
Sesamum variety Suprava is light borwn colour, resistant to root-rot, Phyllody, Pawdery Mildew adaptability under high hear & drought situation	Performance is good in Kharif Season	High yielder & more oil content than local	Performing well in Kharif Season

E. Extension activities under FLD conducted till dates:

CFLD (RABI 2022-23) - GREENGRAM			
Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training programme 1	07.11.2022 (Budhelkani)	25
2.	Training programme 2	03.03.2023 (Jarangloi)	25
3.	Method demonstration 1	07.11.2022 (Budhelkani)	25
4.	Method demonstration 2	03.03.2023 (Jarangloi)	25
5.	Diagnostic field visit 1	01.11.2022 (Sonamunda)	15
6.	Diagnostic field visit 2	07.11.2023 (Philingbahal)	10
7.	Diagnostic field visit 3	14.01.2023 (Champapada)	15
8.	Field Day 1	30.03.2023 (Jarangloi)	50

CFLD (KHARIF-2023) - SESAMUM			
Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training programme 1	28.7.2023 (Birsu)	30
2.	Training programme 2	1.8.2023(Jhargaon)	30
3.	Method demonstration 1	3.8.2023(Jauramunda)	15
4.	Method demonstration 2	5.8.2023(Jhargaon)	18
5.	Diagnostic field visit 1	7.9.2023(Jauramunda)	10
6.	Diagnostic field visit 2	15.9.2023(Birsu)	15
7.	Diagnostic field visit 3	3.10.2023(Mahikani)	12
8.	Field Day 1	4.11.2023(Jhargaon)	50

Sequential good quality photographs (as per crop stages i.e. growth & development)- Greengram

	
Vegetative Stage	Reproductive Stage

Farmers' training photographs

	
Training 1	Training 2

F. Quality Action Photographs of field visits/field days and technology demonstrated.

		
Field Selection	Distribution of Inputs	Method Demonstration

Sequential good quality photographs (as per crop stages i.e. growth & development) - Sesamum

	
Vegetative Stage	Reproductive Stage

Farmers' training photographs

	
Training 1	Training 2

Quality Action Photographs of field visits/field days and technology demonstrated.

	
Distribution of Inputs	Distribution of Inputs

. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Greengram (Rabi 2022-23)	i) Critical input	90000	75800	Nil
	ii) TA/DA/POL etc. for monitoring		5000	
	iii) Extension Activities (Field day)		5000	
	iv)Publication of literature		3000	
	Total	90000	88,800+(Rs1200 audit fee)	Nil

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Sesamum (Kharif 2023)	i) Critical input	1,50,000	1,30,800	Nil
	ii) TA/DA/POL etc. for monitoring		3,000	
	iii) Extension Activities (Field day)		15,000	
	iv)Publication of literature		-	
	Total		1,48,800+ (Rs 1200 audit fee)	Nil

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

B) Rural Youth (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
Nursery Management of Horticulture crops	2	22	14	36	2	2	4	8	2	10	32	18	50
Training and pruning of orchards	3	25	19	44	4	4	8	8	10	18	37	33	70
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming	2	20	14	34	4	2	6	8	2	10	32	18	50
Seed production	2	15	0	15	2	0	2	31	0	31	50	0	50
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping													
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching	3	14	25	39	2	3	5	7	6	13	23	34	60
Rural Crafts	1	06	06	12	05	0	05	03	0	03	15	05	20
Production of quality animal products	2	22	14	36	2	2	4	8	2	10	32	18	50
Dairying	3	25	19	44	4	4	8	8	10	18	37	33	70
Sheep and goat rearing													
Quail farming													
Piggery													

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
Rabbit farming													
Poultry production	1	12	7	19	0	2	2	9	3	12	22	11	33
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 (FPO Management & Marketing)													
Total	14	114	85	199	19	13	32	74	23	97	211	119	333

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	2	22	14	36	2	2	4	8	2	10	32	18	50
Integrated Nutrient management	3	25	19	44	4	4	8	8	10	18	37	33	70
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs	1	12	7	19	0	2	2	9	3	12	22	11	33
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													

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
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application	2	3	9	12	4	2	6	4	4	8	14	26	40
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other (ICT)													
OtherMushroom production	1	06	06	12	05	0	05	03	0	03	15	05	20
Total	9	68	55	123	15	10	25	32	19	51	120	93	213

D) Farmers and farm women (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
I. Crop Production													
Weed Management	8	20	40	60	16	14	30	124	26	150	160	80	240
Resource Conservation Technologies	1	6	1	7	4	2	6	8	9	17	16	14	30
Cropping Systems	2	15	7	22	4	2	6	18	14	32	37	23	60
Crop Diversification	2	5	16	21	1	0	1	20	18	38	26	34	60
Integrated Farming	2	8	19	27	5	1	6	13	14	27	26	34	60
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management	4	12	7	19	17	6	23	43	35	78	72	48	120
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													
Others													
Total	19	66	90	156	47	25	72	226	116	342	337	233	570
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													

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
Off season vegetables													
Nursery raising	1	6	1	7	4	2	6	8	9	17	16	14	30
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation	1	4	2	6	2	4	6	6	12	18	12	18	30
Others	8	42	0	42	22	7	29	111	58	169	175	65	240
Total (a)	10	52	3	55	28	13	41	125	79	204	203	97	300
III. Soil Health and Fertility Management													
Soil fertility management													
Integrated water management	1	3	0	3	0	0	0	23	4	27	26	4	30
Integrated Nutrient Management	7	19	20	39	4	5	9	91	71	162	114	96	210
Production and use of organic inputs	1	1	12	13	0	0	0	4	13	27	5	25	30
Management of Problematic soils	1	11	4	15	0	0	0	12	3	15	23	7	30
Micro nutrient deficiency in crops	1	3	11	14	0	0	0	1	15	16	4	26	30
Nutrient Use Efficiency	1	0	0	0	0	0	0	16	14	30	16	14	30
Balance Use of fertilizer													
Soil & water testing	1	0	0	0	0	0	0	17	13	30	17	13	30
others													
Total	13	37	47	84	4	5	9	164	133	307	205	185	390
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	2	05	05	10	0	03	03	03	44	47	08	52	60
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques	1	0	05	05	0	03	03	0	22	22	0	30	30
Value addition													
Women empowerment													
Location specific drudgery reduction technologies													
Rural Crafts													

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
Women and child care													
Others Mushroom production	2	0	40	40	0	09	09	0	11	11	0	60	60
Others (Nursery raising of Vegetables under low cost polytunnel)	2	02	05	07	0	05	05	03	50	50	02	58	60
Total	07	07	55	62	0	18	18	03	127	130	10	200	210
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of FPOs	5	106	3	109	0	1	1	16	19	35	122	23	145
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total	5	106	3	109	0	1	1	16	19	35	122	23	145
XI. Agro forestry													
Production technologies	1	2	1	3	9	7	16	4	7	11	15	15	30
Nursery management	1	7	7	14	0	0	0	10	6	16	17	13	30
Integrated Farming Systems	3	6	9	15	4	21	25	17	33	50	27	63	90
Others													
Total	5	15	17	32	13	28	41	31	46	77	59	91	150
XII. Others (Pl. Specify)													
GRAND TOTAL	59	283	215	498	92	90	182	565	520	1095	936	829	1765

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

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
I. Crop Production													
Weed Management	8	20	40	60	16	14	30	124	26	150	160	80	240
Resource Conservation Technologies	1	6	1	7	4	2	6	8	9	17	16	14	30
Cropping Systems	2	15	7	22	4	2	6	18	14	32	37	23	60
Crop Diversification	2	5	16	21	1	0	1	20	18	38	26	34	60
Integrated Farming	2	8	19	27	5	1	6	13	14	27	26	34	60
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management	4	12	7	19	17	6	23	43	35	78	72	48	120
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													
Others													
Total	19	66	90	156	47	25	72	226	116	342	337	233	570
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Off season vegetables													
Nursery raising	1	6	1	7	4	2	6	8	9	17	16	14	30
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation	1	4	2	6	2	4	6	6	12	18	12	18	30
Others	8	42	0	42	22	7	29	111	58	169	175	65	240
Total (a)	10	52	3	55	28	13	41	125	79	204	203	97	300
III. Soil Health and Fertility Management													
Soil fertility management													
Integrated water management	1	3	0	3	0	0	0	23	4	27	26	4	30
Integrated Nutrient Management	7	19	20	39	4	5	9	91	71	162	114	96	210
Production and use of organic inputs	1	1	12	13	0	0	0	4	13	27	5	25	30

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 of Problematic soils	1	11	4	15	0	0	0	12	3	15	23	7	30
Micro nutrient deficiency in crops	1	3	11	14	0	0	0	1	15	16	4	26	30
Nutrient Use Efficiency	1	0	0	0	0	0	0	16	14	30	16	14	30
Balance Use of fertilizer													
Soil & water testing	1	0	0	0	0	0	0	17	13	30	17	13	30
others													
Total	13	37	47	84	4	5	9	164	133	307	205	185	390
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	2	05	05	10	0	03	03	03	44	47	08	52	60
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques	1	0	05	05	0	03	03	0	22	22	0	30	30
Value addition													
Women empowerment													
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care													
Others Mushroom production	2	0	40	40	0	09	09	0	11	11	0	60	60
Others (Nursery raising of Vegetables under low cost polytunnel)	2	02	05	07	0	05	05	03	50	50	02	58	60
Total	07	07	55	62	0	18	18	03	127	130	10	200	210
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of FPOs	5	106	3	109	0	1	1	16	19	35	122	23	145
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													

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
Total	5	106	3	109	0	1	1	16	19	35	122	23	145
XI. Agro forestry													
Production technologies	1	2	1	3	9	7	16	4	7	11	15	15	30
Nursery management	1	7	7	14	0	0	0	10	6	16	17	13	30
Integrated Farming Systems	3	6	9	15	4	21	25	17	33	50	27	63	90
Others													
Total	5	15	17	32	13	28	41	31	46	77	59	91	150
XII. Others (Pl. Specify)													
GRAND TOTAL	59	283	215	498	92	90	182	565	520	1095	936	829	1765

ii. RURAL YOUTH (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
Nursery Management of Horticulture crops	2	22	14	36	2	2	4	8	2	10	32	18	50
Training and pruning of orchards	3	25	19	44	4	4	8	8	10	18	37	33	70
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming	2	20	14	34	4	2	6	8	2	10	32	18	50
Seed production	2	15	0	15	2	0	2	31	0	31	50	0	50
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping													
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													
Small scale processing													

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
Post Harvest Technology													
Tailoring and Stitching	3	14	25	39	2	3	5	7	6	13	23	34	60
Rural Crafts	1	06	06	12	05	0	05	03	0	03	15	05	20
Production of quality animal products	2	22	14	36	2	2	4	8	2	10	32	18	50
Dairying	3	25	19	44	4	4	8	8	10	18	37	33	70
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	12	7	19	0	2	2	9	3	12	22	11	33
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 FPO management & marketing	1	2	0	2	0	0	0	6	9	15	8	9	17
Total	14	114	85	199	19	13	32	74	23	97	211	119	333

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	22	14	36	2	2	4	8	2	10	32	18	50
Integrated Pest Management	3	25	19	44	4	4	8	8	10	18	37	33	70
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology	1	12	7	19	0	2	2	9	3	12	22	11	33
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													
Information networking among farmers													
Capacity building for ICT application	2	3	9	12	4	2	6	4	4	8	14	26	40
Management in farm animals													
Livestock feed and fodder production													
Household food security	3	14	25	39	2	3	5	7	6	13	23	34	60
Other	1	06	06	12	05	0	05	03	0	03	15	05	20
Total	9	68	55	123	15	10	25	32	19	51	120	93	213

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	F&FW	Importance of Weed mgt in greengram	1	Off	9	21	30	5	17	22
Agronomy	RY	Organic Input Production	2	On	20	0	20	11	0	11
Agronomy	IS	Annual planning of weed pest mgt for sustainable agril.	2	On	15	5	20	1	3	4
Agronomy	F&FW	Nursery Management in Ragi	1	Off	13	17	30	03	17	20
Agronomy	F&FW	Nursery Management in Rice	1	Off	7	23	30	02	19	21
Agronomy	F&FW	Importance of Summer ploughing	1	Off	6	24	30	03	07	10
Agronomy	F&FW	Techniques of seed treatment in Greengram	1	Off	4	24	28	05	07	12
Agronomy	F&FW	Management of wilt complex in chilli	1	Off	25	5	30	10	6	16
Agronomy	IS	Safe use of pesticides	1	On	25	0	25	4	3	7
Agronomy	F&FW	Mgt of stem borer in Rice	1	Off	23	7	30	4	6	10
Agronomy	F&FW	Weed mgt in DSR	1	Off	0	30	30	0	8	8
Agronomy	F&FW	Weed mgt in Maize	1	Off	11	19	30	3	22	25
Agronomy	F&FW	Importance of weed mgt in Blackgram	1	Off	25	5	30	3	8	11
Agronomy	F&FW	Mgt of BPH in Rice	1	Off	23	7	30	12	4	16
Agronomy	F&FW	ICM in rice under drought affected areas	1	Off	11	19	30	24	6	30
Agronomy	F&FW	Mgt of FAW in Maize	1	Off	25	5	30	9	6	15
Agronomy	F&FW	Mgt of wilt complex in Brinjal	1	Off	05	25	27	02	16	18
Agronomy	RY	Seed production in Rice	2	On	24	3	27	6	14	20
Agronomy	F&FW	Mgt of Gandhi Bug in Rice	1	Off	12	18	30	04	10	14
Agronomy	F&FW	Mgt of BPH in Rice	1	Off	3	27	30	2	21	23
Agronomy	F&FW	Mgt of Borer complex in Arhar	1	Off	23	7	30	10	9	19
Agronomy	RY	Safe & Judicious use of Glyphosate	2	On	38	12	50	10	20	30
Agronomy	RY	Different IFS Models for Rainfed ecosystem	2	On	21	4	25	7	8	15
Agronomy	F&FW	Mgt of Rice fallow areas	1	Off	21	9	30	7	14	21
Agronomy	F&FW	Mgt of Rice fallow areas	1	Off	09	21	30	6	14	20
Soil Science	RY	Techniques of Vermiculture & Vermicomposting	3	On	16	4	20	4	3	7
Soil Science	RY	Organic Farming	3	On	15	5	20	11	5	16
Soil Science	IS	Soil related constraints and their amelioration for sustainable crop production	2	On	12	8	20	8	3	11
Soil Science	IS	Composting of Bio-degradable waste	1	On	22	11	33	9	5	14
Soil Science	IS	Efficient use of fertilizers	1	On	17	8	25	1	2	3
Soil Science	IS	Recent advances in Soil health Mgt.	2	On	8	17	25	2	9	11

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
Soil Science	F&FW	INM in Ragi	1	Off	9	21	30	9	21	30
Soil Science	F&FW	Micro & Secondary nutrient application in Rice	1	Off	4	26	30	1	15	16
Soil Science	F&FW	Mgt of acid soil	1	Off	23	7	30	12	3	15
Soil Science	F&FW	Importance of soil testing & Balanced fertilizer application in crops	1	Off	17	13	30	17	13	30
Soil Science	F&FW	Application of Nano-urea in Rice	1	Off	16	14	30	16	14	30
Soil Science	F&FW	Nutrient mgt. in Natural Farming	1	Off	11	19	30	11	19	30
Soil Science	F&FW	INM in Mango orchards	1	Off	7	23	30	0	7	7
Soil Science	F&FW	INM in pulses	1	Off	26	4	30	20	4	24
Soil Science	F&FW	INM in Cole crops	1	Off	27	3	30	23	2	25
Soil Science	F&FW	Rain water harvesting & water conservation	1	Off	26	4	30	23	2	25
Soil Science	F&FW	INM in Mustard	1	Off	20	10	30	20	10	30
Soil Science	F&FW	INM in solanaceous crops	1	Off	14	16	30	12	13	25
Soil Science	F&FW	Use of Bio-fertilizers in Organic vegetable crops	1	Off	5	25	30	4	13	17
Soil Science	RY	Techniques of vermiculture and vermicomposting	3	On	22	3	25	13	1	14
Soil Science	RY	Preparation of Inputs for Organic & Natural farming	3	Off	10	15	25	10	11	21
Soil Science	IS	Fertilizer mgt. in Horticultural crops	1	On	18	7	25	6	3	9
Soil Science	IS	Soil related constraints and their amelioration for sustainable crop production	2	On	10	15	25	4	6	10
Soil Science	IS	Recent advances in fertilizer mgt in field crops	2	On	16	9	25	8	7	15
Soil Science	F&FW	INM in groundnut	1	Off	18	12	30	15	12	27
Horticulture	F&FW	Application of micro-nutrients in Bitter-gourd	1	Off	21	9	30	18	10	28
Horticulture	F&FW	Application of Bio-fertilizers in Okra	1	Off	24	6	30	16	9	25
Horticulture	F&FW	Yard long beans varieties with their characteristics	1	Off	22	8	30	14	11	25
Horticulture	F&FW	Integrated nutrient Management in Brinjal	1	Off	23	7	30	16	8	24
Horticulture	F&FW	Different growing media for raising seedlings in pro-trays	1	Off	12	18	30	8	16	24
Horticulture	F&FW	Nursery raising for Marigold	1	Off	16	14	30	12	11	23
Horticulture	F&FW	Multiple disease resistant varieties of Tomato	1	Off	18	12	30	14	10	24
Horticulture	F&FW	Application of micro-nutrients mixtures in cauliflower	1	Off	21	9	30	18	6	24
Horticulture	F&FW	Method of application of bio-fertilizers in Pointed gourd	1	Off	22	8	30	18	7	25
Horticulture	F&FW	Pollination techniques in Pointed gourd	1	Off	24	6	30	19	4	23
Horticulture	RY	Entrepreneurship development through nursery business	5	On	8	2	10	3	2	5
Home Science	F&FW		1	Off						

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
Home Science	F&FW	Post-Harvest management of Oyster mushroom	1	Off	05	25	30	01	16	17
Home Science	F&FW	Paddy straw mushroom production	1	Off	0	30	30	0	10	10
Home Science	F&FW	Post-Harvest management of paddy straw mushroom bed	1	Off	0	30	30	0	10	10
Home Science	F&FW	Increasing efficiency of farm women by Using Drudgery reduction implements	1	Off	0	30	30	0	21	21
Home Science	F&FW	Nutritional garden for nutritional security of farm families	2	Off	08	52	60	03	47	50
Home Science	F&FW	Nursery raising of vegetables under low cost polytunnel	2	Off	02	58	60	03	50	53
Home Science	RY	Commercial mushroom production for sustainable enterprise	2	ON	04	20	24	02	15	17
Home Science	RY	Value addition of mushroom	1	On	07	16	23	04	11	15
Home Science	RY	Milk Mushroom cultivation	1	On	12	13	27	05	04	09
Home Science	IS	Mushroom production	1	On	14	06	20	08	0	08
Agriculture Extn	IS	Communication skill and motivation	2	ON	12	8	20	5	3	8
Agriculture Extn	RY	Management of FPO s and marketing through FPOs	3	ON	8	9	17	6	9	15
Agriculture Extn	IS	Application of New Media in Extension	1	ON	7	13	20	2	6	8
Agriculture Extn	IS	Recent Advances used in ICT in Agriculture	1	ON	7	13	20	2	6	8
Agriculture Extn	RY	Production and Rearing of Poultry	3	ON	16	3	19	13	3	16
Agriculture Extn	FW	Formation and management of FPOs	5	Off	122	23	145	16	29	45
Forestry Science	F/FW	Production techniques of planting material	1	Off	16	14	30	14	14	28
Forestry Science	F/FW	Boundary plantation of A. Mangium in paddy field bund	1	Off	19	11	30	15	10	25
Forestry Science	F/FW	Nursery mgt of forest species	1	Off	18	12	30	10	6	16
Forestry Science	F/FW	Preparation of different agro-forestry model	1	Off	7	23	30	6	16	22
Forestry Science	F/FW	Practising of Silvi-Pastural system	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	
Vegetables	Marketing	Management of FPO s and marketing through FPOs	3	8	9	17	8	8	8	1
Poultry	Poultry	Production and Rearing of Poultry	3	16	3	19	11	11	23	4
Mushroom	Mushroom	Milk Mushroom cultivation	3	12	13	27	1	1	1	1
Mushroom	Mushroom	Value addition of mushroom	1	7	16	23		2	2	1
Mushroom	Mushroom	Commercial mushroom production for sustainable enterprise	3	4	20	24	Mushroom production	10	20	1
Vegetables/ Fruits	nursery	Entrepreneurship development through nursery business	3	8	2	10	Nursery	2	2	3
Vermi compost	Vermi composting	Techniques of vermiculture and vermicomposting	3	22	3	25	Vermicompost unit	10	20	1
Vermi compost	Organic input production	Preparation of Inputs for Organic & Natural farming	3	10	15	25	Organic input unit	5	3	0
IFS	IFS	Different IFS Models for Rainfed ecosystem	2	21	4	25	IFS	2	6	1
Organic Farming	Organic inputs	Organic Input Production	2	20	0	20	Organic input unit	1	3	0
Paddy	Seed production	Seed production in Rice	2	24	3	27	Seed Production	1	2	0

*training title should specify the major technology /skill transferred

b) Details of participation

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
Crop production and management													
Commercial floriculture	3	25	19	44	4	4	8	8	10	18	37	33	70
Commercial fruit production													
Commercial vegetable production	2	22	14	36	2	2	4	8	2	10	32	18	50
Integrated crop management	2	20	14	34	4	2	6	8	2	10	32	18	50
Organic farming													
Other	2	15	0	15	2	0	2	31	0	31	50	0	50
Total	9	82	47	129	12	8	20	54	14	71	151	69	220
Post harvest technology and value addition													
Value addition													
Other													
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Livestock and fisheries	2	22	14	36	2	2	4	8	2	10	32	18	50
Dairy farming	3	25	19	44	4	4	8	8	10	18	37	33	70
Composite fish culture													
Sheep and goat rearing													
Piggery													
Poultry farming	1	12	7	19	0	2	2	9	3	12	22	11	33
Other													
Total	06	59	40	99	6	8	14	25	15	40	91	62	153
Income generation activities													
Vermicomposting													
Production of bioagents, biopesticides,													

biofertilizers etc.													
Repair and maintenance of farm machinery & imlements													
Rural Crafts	1	06	06	12	05	0	05	03	0	03	15	05	20
Seed production													
Sericulture													
Mushroom cultivation													
Nursery, grafting etc.													
Tailoring, stitching, embroidery, dying etc.	3	14	25	39	2	3	5	7	6	13	23	34	60
Agril. Para-workers, para-vet training													
Other													
Total	4	20	31	51	7	3	10	10	6	16	38	39	80
Agricultural Extension													
Capacity building and group dynamics													
Other													
Total													
Grand Total	**19**	**161**	**118**	**279**	**25**	**19**	**44**	**89**	**35**	**127**	**280**	**170**	**453**

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.	Nursery raising of Vegetables	Crop production and management	March	5	RY	1	20	CBSAE Dev. Project under OMBADC
2.	Mushroom Cultivation for sustainable enterprises	Economic empowerment of women	June	5	RY	1	20	
3.	Vermicompost production	Crop production and management	July	5	RY	1	20	
4	Organic farming for sustainable crop production	Crop production and management	September	5	RY	1	20	
5	Nursery raising of Vegetables	Crop production and management	September	5	RY	1	20	
6	Mushroom Cultivation for sustainable enterprises	Economic empowerment of women	October	5	RY	1	20	
7	Recent advances in Poultry rearing techniques	Livestock and fisheries	November	5	RY	1	20	
8.	Scientific bee keeping	Bee keeping	March	7	RY	1	25	NBB
9.	Small mushroom grower	Mushroom cultivation	January	27	RY	1	20	ASCI

b) Details of participation

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
Crop production and management													
Increasing production and productivity of crops													
Commercial production of vegetables													
Production and value addition													
Fruit Plants													
Ornamental plants													
Spices crops													
Soil health and fertility management	1	6	2	8	0	2	2	2	8	10	8	12	20
Production of Inputs at site													
Methods of protective cultivation													
Other (Nursery raising, Organic farming)	3	14	6	20	5	5	10	29	1	30	48	12	60
Total	4	20	8	28	5	7	12	31	9	40	56	24	80
Post harvest technology and value addition													
Processing and value addition													
Other													
Total													
Farm machinery													
Farm machinery, tools and													

implements													
Other													
Total													
Livestock and fisheries													
Livestock production and management													
Animal Nutrition Management													
Animal Disease Management													
Fisheries Nutrition													
Fisheries Management													
Other (Poultry)	1	6	0	6	3	0	3	6	5	11	15	5	20
Total	1	6	0	6	3	0	3	6	5	11	15	5	20
Home Science													
Household nutritional security													
Economic empowerment of women	2	6	16	22	0	5	5	2	11	13	8	32	40
Drudgery reduction of women													
Other (Mushroom Grower)	1	5	3	8	1	3	4	7	1	8	13	7	20
Total	3	11	19	30	1	8	9	9	12	21	21	39	60
Agricultural Extension													
Capacity Building and Group Dynamics													
Other (Bee keeping)	1	12	3	15	2	2	4	6	0	6	20	5	25
Total	1	12	3	15	2	2	4	6	0	6	20	5	25
Grant Total	9	49	30	79	11	17	28	52	26	78	112	73	185

Good quality photographs of training activity:




Training for Farmers and Farmwomen




Training for Rural Youth




Training for Extension Personnels

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	5	178	72	250	76	35	46	81	213	118	331
Kisan Mela	2	294	146	440	46	16	24	40	310	170	480
Kisan Ghosthi	1	26	14	40	39	3	4	7	29	18	47
Exhibition	9	2046	958	3004	58	34	49	83	2080	1007	3087
Film Show	18	798	842	1640	63	11	17	28	809	859	1668
Method Demonstrations	24	318	123	441	81	9	13	22	327	136	463
Farmers Seminar	2	13	7	20	60	0	0	0	13	7	20
Workshop	1	76	18	94	50	4	2	6	80	20	100
Group meetings	8	240	316	556	64	4	13	17	244	329	573
Lectures delivered as resource persons	34	1246	820	2066	80	8	22	30	1254	842	2096
Advisory Services	54	10076	6058	16134	34	0	0	0	10076	6058	16134
Scientific visit to farmers field	64	726	581	1307	44	14	32	46	740	613	1353
Farmers visit to KVK	324	2024	1795	3819	71	76	84	160	2100	1879	3979
Diagnostic visits	4	34	79	113	61	6	9	15	40	88	128
Exposure visits	10	118	82	200	76	8	2	10	126	84	210
Ex-trainees Sammelan	2	59	31	90	56	2	4	6	61	35	96
Soil health Camp	0	0	0	0	0	0	0	0	0	0	0
Animal Health Camp	0	0	0	0	0	0	0	0	0	0	0
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	0	0	0	0	0	0	0	0	0	0	0
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	0	0	0	0	0	0	0	0	0	0	0
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0	0
Celebration of important days (Akshaya Tritiya, World food day, World soil day, Agri Education day, PM Kishan, etc.)	6	2746	2298	5044	69	24	18	42	2770	2316	5086
Sankalp E Siddhi	0	0	0	0	0	0	0	0	0	0	0
Swatchta Hi Sewa	29	596	314	910	48	86	54	140	682	368	1050
Mahila Kisan Divas	1	14	72	86	65	3	16	19	17	88	105
Any Other (Vikshit Bharat Sankalp Yatra)	27	1786	2349	4135	59	318	278	596	2104	2627	4731
Total	625	23414	16975	40389	1200	661	687	1348	24075	17662	41737

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	48
Radio talks	2
TV talks	4
Popular articles	1
Extension Literature	14
Other, if any	

Good quality photographs of Extension activity:

Farmer's Day

Environment Day

Diagnostic Visit

District Level Exhibition

ICAR Foundation Day

Technology Week

OUAT Foundation Day

Swachhata Activity

Swachhata Awareness

Fish Farmer's Day

Millet Recipe Contest

3.5 a. Production and supply of Technological products

Village seed

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided							
					SC		ST		Other		Total	
					M	F	M	F	M	F	M	F
Total												

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
Rice	Pratikshya	48.6	173113	1	0	14	2	16	5	31	7
Grand Total	Pratikshya	48.6	173113	1	0	14	2	16	5	31	7

Good quality photographs of seed production:

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	Hybrid	15698	15698	111	212	171	110	171	183	453	505
Cabbage	Hybrid	12456	12456	115	121	117	211	117	183	349	515
Tomato	Hybrid	11689	11689	163	214	171	115	176	181	510	510
Brinjal	Hybrid	15321	15321	123	210	170	11	17	18	310	239
Chilli	Hybrid	14165	14165	140	21	217	117	217	189	574	327
Onion	Hybrid	13587	13587	109	218	177	115	176	183	462	516
Others	Hybrid	15144	15144	88	212	173	114	176	181	437	507
Fruits		0								0	0
Mango		211	7385	6	12	10	6	10	11	26	29
Guava	VNR Bihi	96	3360	7	7	7	12	7	11	20	30
Lime		0	0	9	12	10	7	10	10	30	30
Papaya	Red lady	314	10990	7	12	10	1	1	1	18	14
Banana	G-9	0	0	8	1	13	7	13	11	33	19
Others		18	630	6	13	10	7	10	11	27	30
Ornamental plants		235	8225	5	12	10	7	10	10	25	29
Medicinal and Aromatic		112	3920	14	2	21	11	21	18	56	32
Plantation		3245	113575	8	1	13	7	13	11	33	19
Spices		0	0	0	0	0	0	0	0	0	0
Turmeric		0	0	0	0	0	0	0	0	0	0
Tuber			0	0	0	0	0	0	0	0	0
Elephant yams		0	0	0	0	0	0	0	0	0	0
Fodder crop saplings		0	0	0	0	0	0	0	0	0	0
Forest Species		0	0	0	0	0	0	0	0	0	0
Others, pl. specify		0	0	0	0	0	0	0	0	0	0
Total		102291	246145	920	1281	1299	857	1145	1212	3364	3351

Good quality photographs of planting materials:

Production of Bio-Products

Name of product	QuantityKg	Value (Rs.)	No. of Farmers benefitted							
			SC		ST		Other		Total	
			M	F	M	F	M	F	M	F
Bio-fertilizers	2035	40700	20	10	50	30	50	40	120	80
Bio-pesticide										
Bio-fungicide										
Bio-agents	29	14500	5	0	10	10	20	5	35	15
Others, please specify.										
Total	2064	55200	25	10	60	40	70	45	155	95


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)	Sonali	50	3250	0	0	2	11	0	0	2	11
Japanese Quail											
Turkey											
Emu											
Ducks											
Others (Pl. specify)											
Piggery											
Piglet											
Hog											
Others (Pl. specify)											
Fisheries											
Indian carp											
Exotic carp											
Mixed carp											
Fish fingerlings											
Spawn											
Others (Pl. specify)											
Grand Total	Sonali	50	3250	0	0	2	11	0	0	2	11

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

i) Name of Seed Hub Centre: NA

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

ii) Quality Seed Production Reports NA

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2023						
Rabi 2021-22						
Summer/Spring 2023						
Kharif 2023						
Rabi 2022-2023						

iii) Financial Progress

Fund received (2020-21, 2021-22, 2022-23 and 2023-24)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2020-21				
2021-22				
2022-23				
2023-24				

iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

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				
News letter	Chasbas	SS&H, KVK Sundargarah-I	500	500
Popular Articles				
Book Chapter	Energy budgeting of crops under rainfed conditions	D Mondal, D. Majumder, A. Ghosh, S. Sen	1	Mass
Extension Pamphlets/ literature	1.Integrated Disease Pest Management in Pulse & Oilseed Crops 2. Soil Testing 3. Production of Paddy Straw mushroom	Dr. Laxmipriya Pradhan, Dr. M.K. Jena, Dr. Dibyendu Mondal, D.J. Bage	1500	1500
Technical reports	1. Monthly Reports 2. Annual reports	KVK Sundargarah-I	14	14
Electronic Publication (CD/DVD etc.)	1. Short video on INM in Rice 2. Short Video on IWM in rice	KVK Sundargarah-I	Mass	Mass
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.	Agriculture Journalism – Transforming Farm Sector	Agri Journalism	David J Bage, Scientist (Agri Extension)	11-12-2023	DEE, OUAT, Bhubaneswar

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

Success Story - 1

Name of farmer	Mrs. Bharati Pruseth
Address	Village-Phuldhudi, Block-Tangarpali
Contact details (Phone, mobile, email Id)	7684858653
Landholding (in ha.)	2.0
Name and description of the farm/ enterprise	a) She was trained by KVK (skill development training programme) during 2020 & started production of mushroom in small scale, She has also undergone skill development training programme on Vermicompost production during 2021 at KVK. **Paddy straw mushroom cultivation :** Preparing 10-15 beds daily in total 2500 beds in 8 months time & Producing 2000kg of paddy straw. b) **Oyster mushroom cultivation :** Preparing 500 bags in 4 months & producing 900kg of Oyster mushroom c) **Producing 16q of Vermicompost** per year by recycling of mushroom substrate and other agricultural by-products. d) Revenue generation from Paddy straw Rs 6 lakh/- & Oyster mushroom Rs 90,000/-, Rs 2,40,000/- from Vermicompost. e) Total gross income from the above enterprise is Rs 9,30,000/- per year.
Economic impact	i. Turnover of Rs 10.0 lakh per annum with a net profit of Rs 5.58 lakh from mushroom &vermicompost production activity
Social impact	• She is the Secretary of OM Namah Sibaya SHG & master trainer for Mushroom cultivation. and • She has trained over 40 women farmers of near-by villages. Motivated by her success in Vermicompost production and Vegetable nursery rising apart from Mushroom cultivation, other farmwomen of the village have started the enterprise in commercial mode.
Environmental impact	• Approximately 130 q mushroom spent straw/year has been utilized for vermicompost production • Utilization of paddy straw for mushroom cultivation avoiding stubble burning.
Horizontal/ Vertical spread	• She has trained over 40 women farmers of near-by villages. • Motivated by her success in Vermicompost production and Vegetable nursery rising apart from Mushroom cultivation, other farmwomen of the village have started the enterprise in commercial mode. • Presently she is doing 10-15 beds regularly instead of 2-3 beds. • She has provided employment to 2 nos of farmwomen in her farm round the year.

Good quality photographs (2-3)







Success Story – 1I

Name of farmer	HIROD PATEL
Address	Village-RATANPUR, Block-Tangarpali, Dist – SUNDARGARH, ODISHA
Contact details	7750930801
Landholding (in ha.)	10.5 ha
Name and description of the farm/ enterprise	INTEGRATED POND BASED FARMING SYSTEM Started his own IFS system inspired after attending a training at KVK during the year 2018-19 on quality seed and vegetable production. Had about 4.2 ha of his own paddy field .At first started from a small area of Banana cultivation and gradually transformed his land and cultivation practices. At present the different technical components of his enterprises is as follows Rice- 2ha., Banana-2 ha. acre, Mango- 0.4 ha, Vegetable cultivation-1.2 ha., Fishery-0.6 ha, dairy-4 nos. duckery-10 nos.
Economic impact	Before taking-up the enterprise he was earning Rs 50,000/- per annum from Paddy & Arhar, however after the enterprise he is earning Rs 12 lakhs per annum.
Social impact	His enterprise has developed as one of the successful IFS model in the district which employs about 9 labourers on a daily basis with innovative and modern components. He himself is a skilled worker trained through KVK for managing the crops and marketing. His enterprise has complete infrastructure for storing and marketing along with different farm mechanization like tractor, power tiller, weeder, sprayers and all other small implements.
Environmental impact	He prefers and successfully used organic inputs for fertilizers and bio-pesticides in his unit and has modeled it into an successful organic unit. Has developed his own crop residue system generating compost and other bio-growth promoters from the farmyard waste of all his units..
Horizontal/ Vertical spread	His enterprise currently supports about 10 farmers, hasdeveloped his enterprise single handed which has created an example among other farmers. Inspired from which about 13 farmers namely from Kutra, Bisra and Rajgangpur blocks under the OMBADC vegetable cluster programme who had visited the units during their Exposure visit, have replicated the exact system (model) of integrated farming in their own units. Sri Hirod Continues to inspire many other farmers for which he has been ably rewarded through Block, District and State level farmer Awards

Good quality photographs (2-3)






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

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	Rice	Application of Bitter Gourd leaf Extract	to combat the effect of YSB and Rice Hispa
2.	Pumpkin	Dusting of Ash	To prevent powdery mildew disease

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	930	Organic rice	262	Yes (local mandi)
2	Ragi	150	Organic ragi	100	Yes (local mandi)
3	Mustard	40	Organic mustard	100	Yes (local mandi)
4.	Vegetables	130	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 Soil and Water Testing Laboratory

Sl No	Name of Equipment	Quantity
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			
0	405	405	620	22	

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	Seminar on Soil health management	120	0		45	45

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

3.13. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology
Training programme	2	55	Mushroom cultivation and IWM
Method demonstration	1	30	Mushroom cultivation
Awareness campaign	1	30	Rice

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

No of student trained	No of days stayed
15	0

ARS trainees trained	No of days stayed
0	0

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

Date	Name of the person	Purpose of visit
16.04.2023	Prof. P.K Roul, VC, OUAT	Foundation stone of farmers hostel
16.04.2023	Prof. P.K Mishra, DEE, OUAT	Foundation stone of farmers hostel
16.04.2023	Dr. Susanta Dash, Director, Agro-Polytechnique, OUAT	Foundation stone of farmers hostel
27.07.2023	Smt Kusum Tete, MLA Sundargarh	Inauguration of PM-KISSAN and Celebration of Poshan Saptah
16.10.2023	Ms Kunti Pradhan, President Zilla Parishad, Sundargarh	Celebration of Poshan Saptah, World Food Day Celebrations, etc
27.07.2023	Mrs. Tanaya Mishra, Chairman, Zilla Parishad, Sundargarh	Inauguration of PM-KISSAN

4. 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)
Popularisation of High yielding Ragi variety Arjuna	380	81	3800	5690
Popularisation of Weed management in transplanted Rice	67	82	3200	5500
Popularisation of Integrated Pest management of Fall Army Worm in Maize	84	76	1800	3100
Popularisation of Zn & B application in transplanted rice	146	86	2300	3900
Popularization of short duration NRRI	350	95	2600`	4100

developed rice variety Sahbhagidhan, duration 110days yield potential 35q/ha				
Popularisation of brown manuring in rice increases yield by 12%	112	72	2800	3600
Popularisation of INM in Tomato	89	78	1700	2900
Popularisation of INM in Brinjal	110	78	3200	730
Popularisation of Bunchfeeding in banana for yield enhance	97	83	2500	4100
Popularisation of INM in Okra	130	84	2500	4800
Popularisation of IDM practices for Wilt complex mgt	109	82	1950	2900
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/lt before ripening of mango for fruit fly management in mango	48	80	15000	22000
Popularisation of Spraying of Spiromesifen @ 2ml/lt during attack of sucking pest for leaf curl virus management in Chilli	24	80	5000	9000
Popularisation of Oyster Mushroom production Variety *Hyspizygus ulmarius*)	260	91	1500	2000
Introduction of Milky mushroom (*calocybe indica*)	10	50	800	2000

4.2. Cases of large scale adoption (Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread
High yielding Ragi variety Arjuna	>10000ha, 900 villages
Weed management in transplanted Rice	>4000ha, 300 villages
Integrated Pest management of Fall Army Worm in Maize	>2000ha, 120 villages
Zn & B application in transplanted rice	>24000ha, 2500 villages
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 *Khandagiri*	> 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
INM in Tomato	>180 ha, 10 villages
INM in Brinjal	>140 ha, 10 villages
Bunchfeeding in banana for yield enhance	>75 ha, 10 villages
INM in Okra	>70 ha, 10 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%	>180ha, 90 villages
Popularisation of Kharif onion variety Bhima super potential yield 300 q/ha increases profit upto 15%	>30ha, 18 villages
Popularisation of Use of fruit fly trap + spraying of Deltamethrin @ 2ml/lt before ripening of mango for fruit fly management in mango	>80ha, 10 villages
Popularisation of Spraying of Spiromesifen @ 2ml/lt during attack of sucking pest for leaf curl virus management in Chilli	>80ha, 10 villages

4.3. 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	Mushroom production in threshed straw	Getting remunerative enterprise from agriculture bio-product	Utilization of threshed straw for income generation activity.
2	Popularization of Ragi variety Arjuna	Higher yield and income	Replacing the existing varieties due to high yield
3	Popularization of cold tolerance Oyster mushroom variety *H. ulmarius*	Higher yield in low temperature	Better performance in lower temperature less than 20^0C
4	Weed management in transplanted Rice through application of cyhalofop butyl + penoxulam	Higher suppression and control of all categories of weed, with less investment than labour resulting in higher yield and profit	There was about 78% weed control efficiency with labour savings of about 10 Mandays
5	Integrated Pest management of Fall Army Worm in Maize through application of neem oil + Trichocard + need based application of emamectin benzoate	Higher control of FAW when applied through integrated approach resulting in higher yield and profit	Better efficiency through IPM with low to nil infestation of FAW infestation
6	Zn & B application in transplanted rice @ $ZnSO_4$ @ 25 kg/ha + application of B 20 % @ 1.5 g/lt at flowering stage	Higher yield and income	Correction of micronutrient deficiency
7	INM in Tomato through seedling treatment with biofertilizer + foliar application of N:P:K 19:19:19 @ 0.5 % at 30 DAT + Foliar application of micronutrient mixture (Borax 0.2 % and $ZnSO_4$ 0.5 % at 45 DAT)	Higher fruit yield, fruit weight and number of fruits/plant	Reduction of chemical fertilizer dose
8	INM in Brinjal through bio inoculation of azotobactor and Azospirillum each @ 4 kg/ha with 200 kg pre limed FYM incubated for seven days	Higher fruit yield, fruit weight and number of fruits/plant	Reduction of chemical fertilizer dose
9	Bunch feeding in banana through application of 15 g (7.5 g urea and 7.5 g of Sulphate of potas) dissolved in 100 ml water in 500 g of fresh cow dung and applying the slurry to the denavelled stocked and soon after fruit set	Higher bunch weight and finger size and pulp to pill ratio	Bunch feeding helps in better utilization and efficiency of nutrients

4.4. Details of innovations recorded by the KVK- N/A

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Integrated Farming system
Name & complete address of the entrepreneur	Mr. Hirod Patel, At/PO-Ratanpur, Block-Tangarpali
Role of KVK with quantitative data support:	• Skill development on Bunch feeding in Banana, Use of Micro-nutrients in vegetables, Single line trellis system in cucurbits, Flower cultivation • Collaborative linkage with line department(Horticulture & Watershed for Infrastructure development, cold storage,) Agriculture for bore well & other implements, bank-finance, exposure visit. • Five day residential training at KVK for skill updating.
Timeline of the entrepreneurship development	2018-19 :The youth showed interest for IFS & approached KVK 2018-19 :Attended training at KVK for quality seed production in rice and vegetable cultivation 2018-19 : Started a small unit of Banana cultivation 2019-20 : Excavated new farm pond with financial assistance by Soil conservation 2020-21 : Linked Horticulture department for cold storage. 2021-22 : Financed by Agril. Deptt. for IFS model with technical support of KVK 2023 : Started full phase IFS model with fishery, Vegetables, cucurbits and rice.
Technical Components of the Enterprise	• Rice-5 acre, Banana-5 acre, Mango- 1 acre, Vegetable cultivation-3 acre, Fishery-1.5 acre, dairy-4 nos. duckery-10 nos.
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 12 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 IFS model in the district which employs about 9 labourers on a daily basis. He himself is a skilled worker trained through KVK for managing the crops and marketing. His enterprise has complete infrastructure for storing and marketing along with different farm mechanization like tractor, power tiller, weeder, sprayers and all other small implements.
Horizontal spread of enterprise	His enterprise supports about 10 farmers He has himself developed his enterprise single handedly which has created an example among other 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
Dept of Agriculture /ATMA	Technology dissemination ,Capacity Building, Technology Sharing
Dept of Horticulture	Technology dissemination ,Capacity Building, Technology Sharing
Dept of Veterinary science	Veterinary Services, Training of farmers/ paravets, Backyard

	poultry farming, Animal health camp
Dept of Fisheries	Technical information, procurement of fingerlings, Linking beneficiaries of KVK
Odisha livelihood Misson	Backyard poultry farming, Small ruminant production
NABARD	Formation of FPOs
NHM	Linking beneficiaries of KVK
ICAR-NRRI/CIFA/CHES/CTCRI/CIWA	Technology dissemination ,Capacity Building, Technology Sharing
Forest Department	Technology dissemination ,Capacity Building, Technology Sharing
PD Watershed	Technology dissemination ,Capacity Building, Technology Sharing

5.2. List of special programmes undertaken during 2023 by 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)**

a) Programmes for infrastructure development

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount in lakhs (Rs.)
Spirulina production unit	Production of spirulina for spirulina chiki making unit to combat malnutrition in children (Anganwadi)	2022	DMF, Sundargarh	24.5

(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.)

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	
1.	Poly house for Nursery raising	2011		Hybrid vegetable seedlings	seedlings	1,16,832	32,400	1,75,248	
2.	Shade net house	2011		Quality saplings of fruit plants and Forestry plants	Saplings	1862	37,240	93,100	
3.	Mushroom spawn production	2013		Mushroom Spawn	Mushroom Spawn	5500 Nos.	44,000	1,10,000	
4.	Mushroom production	2018		Mushroom	Paddy straw &	80 kg	6200	13600	

					Oyster				
5.	Vermicompost	2019			Vermicompost	2000 kg	10000	30000	
				E. foetida	Vermin	8 kg	2000	4000	
6.	Poultry rearing unit	2021		Colour birds, Kadaknath		50	5000		Present in demo unit
7.	Guava orchard	2019, 2021		VNR Bihi, Allahabad safeda,L-49, Arka Mrudula, Arka Amulya	Fruits. Gottee	240 1000	8000 5000	9600	Present in Shadenet house
8.	Mango orchard	2019, 2021		Amralli, Dasheri, Langra, Chausa, Arka Neelachal Keshari	Fruits	320	4200	6400	
9.	Fish pond	2022	3000	Jayanti Rohu,Catla, Mrigal	Fish	1.5q	10000	22500	
	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	
Rice	16.07.2023	17.12.2023	1.5	Pratikshya	FS	55.4 (unprocessed)	22,000		unprocessed

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	2000	10000	30000	

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.							
2.							
3.							

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)-20

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January,2023	15	1	
February,2023	17	2	
February,2023	17	2	
March, 2023	15	5	
March, 2023	19	2	
April,2023	15	23	
June,2023	20	5	
July.2023	15	5	
August,2023	16	2	
August,2023	20	3	
August,2023	15	1	
September,2023	18	5	
September,2023	20	5	
October,2023	16	5	
November,2023	16	5	
Total :	254	71	

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed:

No. of staff quarters: 5

Date of completion:

Occupancy details:

Months	Q I	Q II	Q III	QIV	Q V	QVI
July,2018	1					
July,2021		1				
July,2015			1			
July,2021				1		
July,2017					1	

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Savings (SB) Rev. Fund	State Bank Of India	Sundargarh	30773698636
Current A/C (ATMA)	State Bank Of India	Sundargarh	10969167181
Savings (SB) KVK	State Bank Of India	Sundargarh	39454551215
Savings (SB) OMBADC Project	State Bank Of India	Sundargarh	41274069157
Savings (Mod) Edible Oil scheme	State Bank Of India	Sundargarh	41561150338

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

Item	Released by ICAR		Expenditure		Unspent balance as on-
	Kharif	Rabi	Kharif	Rabi	
Sesamum, Kharif-2023	1.5		1.5		0

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2013
	Kharif	Rabi	Kharif	Rabi	
Greengram, Rabi-2022-23		0.9		0.9	0

7.4 Utilization of KVK funds during the year 2023-24 (Not audited)

Sl.No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	1,13,00,000		
2	Traveling allowances	1,50,000	1,12,500	1,05,000
3	HRD	30,000	30,000	
4	Contingencies	17,00,000	12,46,800	10,15,000
A	Stationery, Telephone, postage and other expenditure on office running, publication of Newsletter			
B	POL, repair of vehicle, tractor and equipments			
C	Meals/ refreshment for residential and non-residential trainings)			
D	Training material (need based materials and equipments for conducting the training)			
E	Frontline demonstration			
F	On farm testing (on need based material, location specific and newly generated information in the major production systems of the area)			
G	Integrated Farming System(IFS)			
H	Training of extension functionaries			
I	Extension Activities			
J	Farmers' Field School			
K	EDP / Innovative activities			
L	Soil & water testing & issue of Soil Health Cards			
M	Display & Boards			
N	Maintenance of Building			
O	TSP	12,00,000	6,11,000	5,20,000
P	Swachhta Expenditure	34,000		15000
TOTAL (A)		144,14,000	30,80,000	16,55,000

B. Non-Recurring Contingencies				
1	Equipments & Furniture			
	Procurement of Tractor on replacement basis			
	Office equipment and furniture			
2	Works			
	Farmers Hostel 2nd & final Installment	60,00,000		
	Storage Godown			
	Bore Well			
	Irrigation System			
3	Vehicle			
4	Library (Purchase of assets like books & journals back volume)	10,000	10,000	
TOTAL (B)		60,10,000		
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		204,24,000	10,000	

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
2019-20				214014
2020-21	214014	1185442	1065282	334174.5
2021-22	334174.5	1358074	1457903.5	234345
2022-23	234345	637123	674722.5	196745.5
2023-24	196745.5	902148		

7.6. (i) Number of SHGs formed by KVKs
(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	20	Kharif & Rabi	16	2	2
Field visit	12	Kharif & Rabi	12	0	0
Planting materials verification	1	Rabi	1	0	0
Exhibition	3	Rabi-2023	3	0	0

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)
Blast	Rice	5.10.2023	8500	7.4	3116
BLB	Rice	20.10.2023	4500	6.2	1500
Sheath Blight	Rice	August,2023	5600	6.1	2800
Powdery mildew	Mustard	January,2023	1200	3.4	600
Blast	Finger millet	August,2023	1200	4.2	700

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. *mKisan* Portal (National Farmers' Portal/ SMS Portal)

Type of message	No. of messages	No. of farmers covered
Crop		
Livestock		
Fishery		
Weather		
Marketing		
Awareness		
Training information		
Other		
Total		

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	*50560*
2.	No. of farmers registered in the portal	*8506*
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

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office		
2. Basic maintenance	5	3000
3. Sanitation and SBM	5	5000
4. Cleaning and beautification of surrounding areas	10	10000
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	6	
6. Used water for agriculture/ horticulture application		
7. Swachhta Awareness at local level	8	4000
8. Swachhta Workshops		
9. Swachhta Pledge	1	300
10. Display and Banner	2	500
11. Foster healthy competition	1	3500
12. Involvement of print and electronic media	2	
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	3	4000
14. No of Staff members involved in the activities	14	
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (Awareness on Swatchhata in every On-campus training programme, Daily cleaning of Office room and campus)	13	
Total	**70**	**30000**

9.6. Observation of National Science day

Date of Observation	Activities undertaken

9.7. Programme with Seema Suraksha Bal/ 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

Give good quality 1-2 photograph(s)

9.9. Details of '*Pre-Rabi Campaign'* / '*Pre-Kharif Campaign'* Programme

Date of programme	No. of Union Ministers attended the programme	No. of Hon'ble MPs (Loksabha / Rajyasabha) participated	No. of State Govt. Ministers	Participants (No.)							Coverage by Doordarshan (Yes/No)	Coverage by other channels (Number)
				MLAs Attended the programme	Chairman ZilaPanchayat	Distt. Collector/ DM	Bank Officials	Farmers	Govt. Officials, PRI members etc.	Total		

Please provide good quality photographs:

9.10. Details of Swachhta Hi Suraksha/ Swachhta Pakhwada programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Awareness programme	5	165		
2	Cleaning of village school	1	78	1	Narottam Lakra
3	Cleaning of village temple	2	58		
4	Awareness programme at Anganwadi kendra	1	20	1	ICDS Supervisor Mrs. Subhadra Naik
5	Recycling of farm waste for vermicomposting	2	45	1	Sarpanch of village Ramchandra Patel

Photo attached in annexure-I

9.11. Details of Mahila Kisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1.	Awareness	5	40	1	Smt. Tanaya Mishra, Chairman, Sundargarh Muncipality

Please provide good quality photographs:

9.12. 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.	Hirod Patel	At/PO-Ratanpur, Block-Tangarpalli Mob.7750930801	IFS
2.	Amulya Pratap Lakra	At-Telighana, PO-Kutra Block-Kutra Mob.8908945866	Natural Farming
3.	Prafulla Patel	At-Samina, PO-Kirei Block-Sadar Mob.9437799799	IFS & Seed Production
4.	Nirupama Pruseth	At/PO-Phuldhudi, Block-Tangarpali Mob.9692993212	Mushroom & Vermicompost
5.	Puspanjali Das	At/PO-Bileigarh, Block-Tangarpali Mob.9692765077	Mushroom & Nursery raising
6.	Helen Pradhan	At-Mahuljore PO-Kinjirima Block-Sadar Mob.8018689760	Intensive Vegetable cultivation

9.13. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Training hall & Hostel users fee	24,500	CBSAE project under OMBADC
2.	Training hall & Hostel users fee	36,700	NBB,ICAR

9.14. Resource Generation:

Sl. No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1	Capacity building Skilling, Agro-enterprises & Entrepreneurship development project, OMBADC	Entrepreneurship development	OMBADC	13.94	Mini Agro-enterprise model
2.	Capacity building Skilling, Agro-enterprises & Entrepreneurship development project, OMBADC	Entrepreneurship development	OMBADC	20.58	ICT Centre
3.	Capacity building Skilling, Agro-enterprises & Entrepreneurship development project, OMBADC	Entrepreneurship development	OMBADC	150.00	Entrepreneurship Facilitation centre-cum-Conference hall
4.	Capacity building Skilling, Agro-enterprises & Entrepreneurship development project, OMBADC	Entrepreneurship development	OMBADC	22.40	Farm Machinery Hub(Purchase of Machinery & Implements)
5.	Development of Spirulina production unit	To produce Spirulina powder and supply to Spirulina Chikki unit.	DMF, Sundargarh	24.50	Production and Processing unit/Lab facility

9.15. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning

9.16. 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

10. Report on Cereal Systems Initiative for South Asia (CSISA)

a) Year:
b) Introduction / General Information:

	Title	Objective	Treatment details	Date of sowing	Replication	Result with photographs
Experiment 1						
Experiment 2						
Experiment 3						
…						
..						
Others (If any)						

Please provide good quality photographs:

11. Details of DAPST/ TSP

a. Achievements of physical output under TSP during 2023

Progress of DAPST for the year 2023 (Jan. to Dec., 2023)

Name of KVK							
Sl.No.	***Item/Activity***		***Units***	***Targets/Achievements***		***No. of Beneficiaries***	
				Annual Targets	***Achievements***	***Annual Targets***	***Achievements***
1	**Trainings (Capacity building/ Skill Development etc.)**		No.				
	1.1	1-3 days	No.	106	97	2840	2602
	1.2	4-10 days	No.				
	1.3	2-4 weeks	No.	1	20	20	20
	1.4	More than 4 weeks	No.				
2	**On Farm Trials (OFTs)**		No.	11	11	122	122
3	**Front Line Demonstrations (FLDs) and other demonstrations**		No.	26	26	400	400
4	**Awareness camps, exposure visits etc.**		No.	-	32	-	3785
5	**Input Distribution**						
	5.1	Seeds (Field Crops)	Tonnes	0.9	0.9	34	34
	5.2	Seeds (High Value Crops, spices etc.)	kg				
	5.3	Seeds (Root & Tuber Crops)	tonnes				
	5.4	Nursery plants	No.	1,00,000	1,16,832	500	962
	5.5	Cutting , slips, suckers, etc	No.	2000	2000	10	10
	5.6	Mushroom Spawns/ Bio-Fertilizers (in Packets)	Packets	5000	5000	50	120
	5.7	Honey Bee Colonies	No.	10	10	10	10
	5.8	Animals-large (Cattle/ Buffalo/ camel/horse/donkey/Mithun/Yak etc.)	No.				
	5.9	Animals-small (pig, sheep, goat etc.)	No.				
	5.1	Poultry chicks / duckling etc	No.				
	5.11	Fish Spawns/ fingerlings	No.				
	5.12	Small equipment's (upto Rs 2000)	No.	50	50	50	50
	5.13	Medium Equipment's/ machinery (upto Rs 25000)	No.	50	50	50	50
	5.14	Large Equipment's / machinery (> Rs. 25000)	No.				
	5.15	Infrastructure / Civil Works/ Ponds etc	No.				

	5.16	Setting up plant nursery/ seed farm/ hatchery	No.				
	5.17	Land development/ Reclamation / Conservation	hectares				
	5.18	Fertilizers (NPK)/ Secondary fertilizers	tonnes	0.045	0.045	27	27
	5.19	Micro nutrients	tonnes	0.065	0.065	40	40
	5.2	FYM/ Vermicompost	tonnes				
	5.21	Soil amendments (Gypsum, lime etc.)	tonnes				
	5.22	Plant protection chemicals	kg				
	5.23	Plant growth Promoter	kg				
	5.24	Animal Feed	tonnes				
	5.25	Animal Fodder	tonnes				
	5.26	Animal medicines	doses				
	5.27	Any other (Liquid PSB etc.)	Litre	38	38	30	30
6	**Services/Facilitation**						
	6.1	Animal Health Camps	No.				
	6.2	Artificial Insemination / Vaccination	No.				
	6.3	Veterinary Services (Hospitalization, on-site treatment, PD, surgery etc)	No.				
	6.4	Testing samples of Soil, plant, water, feed, fodder and livestock	No.	400	405	600	620
	6.5	Promotion of agri-entrepreneurship	No.	10	10	10	10
	6.6	Promotion of IFS, IOFS, Natural Farming, Nutrigarden, kitchen garden, orchards etc	No.				
	6.7	Creation of market links of farm produces	No.				
	6.8	Use of Institute Facilities (Processing etc.) (in Hours)	Hours				
	6.9	Subsidies/ Assistance (50% of Project cost, Max. Rs 10,000/beneficiary)	No.				
7	**Distribution of Literature**		No.	7	7	3500	3200
8	**Employment generation for livelihood**		(Man-months)	20	20	20	20
9	**Fellowship, Stipends or Scholarship**		No.				
10	**Area oriented R&D Activity (project addressing the problems of agri. Sector faced by the SC/STs and benefit directly, which is measurable and identifiable**		No. of projects				
11	**Monitoring & Evaluation of DAPSC/ST (upto 3%)**						
12	**Any other (specify)**						

b. Fund received under TSP in 2023-24 (Rs. In lakh): 12.00

12. Details of DAPSC/ SCSP

a. Achievements of physical output under SCSP during 2023

Progress of DAPSC for the year 2023 (Jan. to Dec., 2023)

Name of KVK							
Sl.No.	***Item/Activity***		***Units***	***Targets/Achievements***		***No. of Beneficiaries***	
				Annual Targets	***Achievements***	***Annual Targets***	***Achievements***
1	**Trainings (Capacity building/ Skill Development etc.)**		No.				
	1.1	1-3 days	No.				
	1.2	4-10 days	No.				
	1.3	2-4 weeks	No.				
	1.4	More than 4 weeks	No.				
2	**On Farm Trials (OFTs)**		No.				
3	**Front Line Demonstrations (FLDs) and other demonstrations**		No.				
4	**Awareness camps, exposure visits etc.**		No.				
5	**Input Distribution**						
	5.1	Seeds (Field Crops)	Tonnes				
	5.2	Seeds (High Value Crops, spices etc.)	kg				
	5.3	Seeds (Root & Tuber Crops)	tonnes				
	5.4	Nursery plants	No.				
	5.5	Cutting , slips, suckers, etc	No.				
	5.6	Mushroom Spawns/ Bio-Fertilizers (in Packets)	Packets				
	5.7	Honey Bee Colonies	No.				
	5.8	Animals-large (Cattle/ Buffalo/ camel/horse/donkey/Mithun/Yak etc.)	No.				
	5.9	Animals-small (pig, sheep, goat etc.)	No.				
	5.1	Poultry chicks / duckling etc	No.				
	5.11	Fish Spawns/ fingerlings	No.				
	5.12	Small equipment's (upto Rs 2000)	No.				
	5.13	Medium Equipment's/ machinery (upto Rs 25000)	No.				
	5.14	Large Equipment's / machinery (> Rs. 25000)	No.				
	5.15	Infrastructure / Civil Works/ Ponds etc	No.				
	5.16	Setting up plant nursery/ seed	No.				

		farm/ hatchery					
	5.17	Land development/ Reclamation / Conservation	hectares				
	5.18	Fertilizers (NPK)/ Secondary fertilizers	tonnes				
	5.19	Micro nutrients	tonnes				
	5.2	FYM/ Vermicompost	tonnes				
	5.21	Soil amendments (Gypsum, lime etc.)	tonnes				
	5.22	Plant protection chemicals	kg				
	5.23	Plant growth Promoter	kg				
	5.24	Animal Feed	tonnes				
	5.25	Animal Fodder	tonnes				
	5.26	Animal medicines	doses				
	5.27	Any other (Liquid PSB etc.)	Litre				
6	**Services/Facilitation**						
	6.1	Animal Health Camps	No.				
	6.2	Artificial Insemination / Vaccination	No.				
	6.3	Veterinary Services (Hospitalization, on-site treatment, PD, surgery etc)	No.				
	6.4	Testing samples of Soil, plant, water, feed, fodder and livestock	No.				
	6.5	Promotion of agri-entrepreneurship	No.				
	6.6	Promotion of IFS, IOFS, Natural Farming, Nutrigarden, kitchen garden, orchards etc	No.				
	6.7	Creation of market links of farm produces	No.				
	6.8	Use of Institute Facilities (Processing etc.) (in Hours)	Hours				
	6.9	Subsidies/ Assistance (50% of Project cost, Max. Rs 10,000/beneficiary)	No.				
7	**Distribution of Literature**		No.				
8	**Employment generation for livelihood**		(Man-months)				
9	**Fellowship, Stipends or Scholarship**		No.				
10	**Area oriented R&D Activity (project addressing the problems of agri. Sector faced by the SC/STs and benefit directly, which is measurable and identifiable**		No. of projects				
11	**Monitoring & Evaluation of DAPSC/ST (upto 3%)**						
12	**Any other (specify)**						

b. Fund received under SCSP in 2023-24 (Rs. In lakh):

13. Progress report of NICRA KVK (Technology Demonstration component) during the period
(Applicable for KVKs identified under NICRA)

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

14. 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 women entrepreneur	Bharati Pruseth	2023	OUAT, Bhubaneswar		OUAT Foundation Day
2	Best FPO Award	Gangadhar Kisan	2023	OUAT, Bhubaneswar		FPO Conclave
3	Best FPO Award	Rajib Kullu	2023	OUAT, Bhubaneswar		FPO Conclave

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

16. 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

17. 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

18. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3-5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Paddy straw Mushroom production	5kg paddy straw soaked in 2% calcium carbonate for 6hrs (maintain 65% moisture) with application of 3% pulse powder and 3% spawn.	1,17,000/ 1000beds	Average 420	
2	Oyster Mushroom production	2kg paddy straw soaked in 2% calcium carbonate for 6hrs maintain 65% moisture) with application of and 3% spawn.	1,40,000/1000bag	Average 450	

19. Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I (up-to 15.03.2018)					
II (up-to 24.04.2018)					
Total					

20. Information on Visit of Ministers to KVKs, if any (Please provide good quality photographs)

Date of Visit	Name of Hon'ble Minister	Name of Ministry	Salient points in his/ her observation (2-3 bulleted points)

21. a) Information on ASCI Skill Development Training Programme, if undertaken during 2023

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		
Small mushroom grower	Mr. D.J Bage	28/03/2023	25/04/2023	2	1	4	3	6	4	Yes	2,41,700/-

(Please provide good quality photographs)

Sl. No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of participants	Sponsoring Agency
					PF/RY/EF			
1.	Nursery raising of Vegetables	Crop production and management	March	5	RY	1	20	CBSAE Dev. Project under OMBADC
2.	Mushroom Cultivation for sustainable enterprises	Economic empowerment of women	June	5	RY	1	20	
3.	Vermicompost production	Crop production and management	July	5	RY	1	20	
4	Organic farming for sustainable crop production	Crop production and management	September	5	RY	1	20	
5	Nursery raising of Vegetables	Crop production and management	September	5	RY	1	20	
6	Mushroom Cultivation for sustainable enterprises	Economic empowerment of women	October	5	RY	1	20	
7	Recent advances in Poultry rearing techniques	Livestock and fisheries	November	5	RY	1	20	
8.	Scientific bee keeping	Bee keeping	March	7	RY	1	25	NBB
9.	Small mushroom grower	Mushroom cultivation	January	27	RY	1	20	ASCI

b) Information on Skill Development Training Programme (Other than ASCI or less than 200 hrs. if any) if undertaken during 2023

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	
Crop production and management	Nursery raising of Vegetables	40	2	0	2	2	6	8	10	10	20	75,000
Economic empowerment of women	Mushroom Cultivation for sustainable enterprises	40	0	2	4	6	4	4	8	12	20	75,000
Crop production and management	Vermicompost production	40	2	0	5	1	8	4	15	5	20	75,000
Crop production	Organic	40	3	0	3	2	5	7	1	9	20	75,000

and management	farming for sustainable crop production								1			
Crop production and management	Nursery raising of Vegetables	40	0	2	4	6	4	4	8	12	20	75,000
Economic empowerment of women	Mushroom Cultivation for sustainable enterprises	40							13	7	20	75,000
Livestock and fisheries	Recent advances in Poultry rearing techniques	40	0	2	4	6	4	4	8	12	20	75,000
Bee keeping	Scientific bee keeping	56							20	5	25	1,65,250

22. Information on NARI Project (if applicable)

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

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

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

24. Good quality action photographs of overall achievements of KVK during the year (best 10)

***

Swachhata Activities under Special Campaign 3.0 for the Year 2023-24

Awareness programme on use of crop residue as vermicompost at Village – Mahuljhore under Swachhata Campaign 3.0

Celebration of Swachhata Pakhwada under Special campaign 3.0 on the eve of 150th Birth anniversary of Mahatma Gandhi at Kirei School.

Use of crop residue in Vermicompost

Cleaning and weeding the KVK,Campus and use the crop residue as compost

Cleaning the Office Campu

Awareness Programe on Swachhata among SHG of Village - Bhedabahal