ANNUAL PROGRESS REPORT 2023

(January 2023 to December 2023)

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ICAR

କୃଷି ବିଜ୍ଞାନ କେନ୍ଦ୍ର

କୃଷି ବିଜ୍ଞାନ କେନ୍ଦ୍ର

KRISHI VIGYAN KENDRA

NAYAGARH

ODISHA UNIVERSITY OF AGRICULTURE & TECHNOLOGY
At: Panipoila, P.O.:Balugaon, Dist.: Nayagarh, PIN :752070, Odisha.

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	
KrishiVigyan Kendra At-Panipoila, Po-Balugaon, Dist, Nayagarh, Pin-752070		-	kvknayagarh.ouat@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology, Bhubaneswar, Odisha	0674-2397362	0674-2397362	deanextensionouat@yahoo.com deanextension_ouat@rediffmail.com, dee@ouat.ac.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Anil Kumar Swain	-	9439024040 9438615702	anilkumarswainouat@gmail.com

1.4. Year of sanction of KVK:2004

1.5. Staff Position (**as on 1st January, 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. Anil Kumar Swain	Sr. Scientist & Head	Fishery Science	1,31,400-2,17,100 Rs. 166400	19.10.2019	Temporary	Other
2	Subject Matter Specialist	Mrs. Gitanjali Subudhi	Scientist	Home Science	57700-182400 Rs. 95300	04.06.2021	Temporary	Other
3	Subject Matter Specialist	Mr. Pramod Ku Prusti	Scientist	Plant Protection	57700-182400 Rs. 82200	24.05.2018	Temporary	Other
4	Subject Matter Specialist	Dr. Gyana Ranjan Sahoo	Scientist	Forestry	57700-182400 Rs. 84700	04.07.2023	Temporary	Other
5	Subject Matter Specialist	Dr Madhumita Jena	Scientist	Agril. Extension	57700-182400 Rs.82200	01.08.2022	Temporary	Other
6	Subject Matter Specialist	Er. (Mrs.) Suchismita Dwivedy	Scientist	Agri. Engg.	15600-39100 +AGP 6000/- Rs.21390	22.01.2016	Temporary	Other
7	Subject Matter Specialist	Vacant	Scientist		-			
8	Farm Manager	Mr. DebasishNayak	Farm Manager	Agronomy	-	31.01.2019	Temporary	Other
9	Programme Assistant	Vacant	Programme Assistant	-	35400-112400 Rs.56900	-	Temporary	Other
10	Computer Programmer	Mrs. Sangita Panda	Programme Assistant	Computer	35400-112400 Rs.50500	10.07.2023	Temporary	Other
11	Accountant / Superintendent	Vacant	OfcSuperintendent Cum- Accountant	-	-	-	-	-
12	Stenographer	Mrs. T. Chhualasingh	Stenographer	Jr. Steno-cum-CO	25500-81100 Rs.32300	11.11.2016	Temporary	Other
13	Driver-cum-Mechanic	Mr. Pramod Ku Lenka	Driver-cum-Mechanic	-	21700-69100 Rs.30200	04.06.2021	Temporary	Other
14	Driver-cum-Mechanic	Mr. Dillip Pradhan	Driver- Cum-Mechanic	-	21700-69100 Rs. 28400	18.02.2019	Temporary	Other
15	Supporting staff	Mr. HariharPradhan	Peon-cum-Watchman	-	16600-52400 Rs.25800	01.12.2014	Temporary	Other
16	Supporting staff	Mr. GunanidhiBauta	Peon-cum-Watchman	-	16600-52400 Rs.25800	04.06.2021	Temporary	Other

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1.0
2.	Under Demonstration Units	0.4
3.	Under Crops	2.16
4.	Orchard/Agro-forestry	1.2
5.	Others with details	1.97
6.	Ponds	0.8
	Total	7.53 ha

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Adm. Building					Yes			ICAR
2.	Farmers Hostel					Yes			ICAR
3.	Staff Quarters (6)					Not Available			
4.	Piggery unit					Not Available			
5.	Fencing					Yes			
6.	Rain Water harvesting					Not Available		Required	
7.	Threshing floor					Yes			RKVY
8.	Farm Godown					Not Available		Required	
9.	Dairy unit					Not Available		Required	
10.	Poultry unit					Yes			ARYA
11.	Goatary unit					Not Available			

12.	Mushroom Lab					Yes			RKVY
13.	Mushroom prod unit					Yes			ICAR
14.	Shade house					Not Available			
15.	Soil test Lab					Yes			ICAR
16.	Vermicompost unit					Yes			ICAR
17.	Poly house					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**
Bolero	2020	8,00,000	47380	Good
Tractor	2023	6,55,297	125 hrs	New
Motor Cycle	2005	51,000	83475	Good

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Soil testing lab equipment	2017-18	17.00,000	Workable condition	ICAR
Autoclave	2017-18	1,20,000	Workable condition	ICAR
Digital refractometer	2017-18	15000	Workable condition	ICAR
Drying cabinet	2017-18	20000	Workable condition	ICAR
Crown cap sealing machine	2017-18	6000	Workable condition	ICAR
Food processor	2017-18	5000	Workable condition	ICAR
Vacuum sealing machine	2017-18	2000	Workable condition	ICAR
Plant Health Clinic lab equipments	2022-23	25,00,000	Workable condition	GoO

b. Farm machinery				
Water pump (1.5 hp)	2017-18	10,000	Workable condition	ICAR
Drum Seeder	2017-18	3000	Workable condition	ICAR
Paddle Paddy Thresher	2017-18	6225	Workable condition	ICAR
Tractor drawn Sugarcane ridger	2022-23	14,800	Workable condition	ICAR
Agricultural spray Drone	2022-23	8,45,728	Workable condition	ICAR
Tractor	2022-23	6,55,297	Workable condition	ICAR
Solar Nano Pump(0.1hp)	2022-23	14,500	Workable condition	ICAR
Poawer Weeder(1.5hp)	2022-23	14,800	Workable condition	ICAR
Solar surface Pump(0.5hp)	2023-24	88,000	Workable condition	GoO
Solar submissible pump(0.5hp)	2023-24	80,000	Workable condition	GoO
c. AV Aids				
Computer	2017-18	38,000	Workable condition	ICAR
Inverter	2017-18	40000	Workable condition	ICAR
DSLR camera	2017-18	42000	Workable condition	ICAR
LCD Projector	2019-20	64,000	Workable condition	ICAR
Laptop	2022-23	35,354	Workable condition	ICAR(ARYA)

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Cultivator	-	-	Good	ICAR
M.B. Plough	2013	30,000	Good	ICAR
Land Leveler	2014	19500	Good	ICAR
Disc plough	2013	64000	Good	ICAR
Sugarcane Ridger	2020	14000	Good	ICAR
Power Weeder(5 hp)	2023	88000	Good	MIDH(GoO)
Cage Wheel	2023	14,950	Good	ICAR
Post Hole Digger	2023	14,800	Good	GoO

1.8. Details of SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason

1.	16.01.2023	29	Emphasis on Soil Conservation Activities	• Awareness program on "Soil conservation by vegetable crop plantation on the pond dyke" conducted at KVK campus in collaboration with Dept of Soil and Watershed, Nayagarh under SCSP program. • "Pond dyke coconut plants Planation" during World Environment Day to check the soil erosion of the farm pond. • Awareness on Soil and water conservation during the World Soil Day on 4 th Dec 2023. • Proceeding has been drawn during the District Level Convergence Committee Meeting held at Conference Hall of Collectorate, Nayagarh on 28.06.2023 Cultivation and promotion of Glaricidia for soil conservation. • Project Proposal submitted on Diversified different Agro forestry model in different zones of Odisha to Dept of Watershed and Soil Conservation, GoO • Plantation of Coconut saplings, Glaricidia etc. during	

				Vanomohatsav.	
			Promotion of Natural farming among the farmers	• Awareness programme on Preparation of different components of Natural Farming • Training programme on "Millets for opportunity in Natural Farming" in the village Salajharia of Khandapada block DD kisan program(Choupal Charchaa) • Promotion of Natural farming through PM flagship program on Vikshit Bharat Sankalp Abhiyan in all GPs • Demonstration under ICAR Natural farming at 4 Villages • Project Proposal submitted on "On Farm Demonstration of Natural Farming" to Agriculture Dept., GoO	
			Focus on Sugarcane Jaggery packaging and marketing through SHGs	• Discussion has been made with "Maa Guda", Kantabania for marketing of the jaggery with technical support of KVK. • On campus Training program on Preparation and marketing of quality Sugarcane jaggery has been planned involving SHG members	
			Value addition of Millets	• Rural Youth training on Small scale processing and value addition of ragi (Ladoo, Cookies & Powder) was conducted involving WSHGs at	

				KVK Campus. • FLD conducted on Preparation of Ragi Malt Powder for SHGs at Nuagaon block with FW training. • Participation in the International Millet Conclave organized at Janta Maidan, Bhubaneswar. • Weekly Activity on Millets during Celebration of International Millet Year 2023 • Participation of KVK at NRRI during 2nd International rice congress with Millet products • In-service Training Programme on Enhancement of Ragi to Combat Malnutrition' at KVK involving Angnawadi workers	
			Bio-floc technology with different species	• OFT on "Suitable species for Bio floc Technology"conducted at 3 blocks of the district at 10nos. of farmer's field.	
			Integrated pest Management (IPM) of important crops	• OFT on IPM module for Management of sucking pest in brinjal was conducted at 10 different locations with F/FW training. • Demonstration on Integrated Management of Fall Army • worm in sweet corn was conducted at 10 locations with • F/FW training. • Rural Youth training on	

				Integrated pest management in • protected cultivation was conducted at KVK campus. • Integrated management in rice, chilli, brinjal crops was • conducted through training programmes.	
			Documentation of outreach, accomplishment of KVK activities	• Activities updated in KVK Website and KVK Portal (All india rank 106) Technology documentation through Quarterly Newsletter "Sabujaswarna" • Booklet on "Backyard poultry Rearing" under ARYA • Leaflets on BPH management of rice • Leaflet on Bacterial wilt management in brinjal, tomato and chilli • Leaflet of integrated management of Fall Army Worm in maize and sweetcorn	

** Salient recommendation of SAC in bullet form*

Attach a copy of SAC proceedings along with list of participants

...resistance vegetable varieties for higher

Recommendation of XVII SAC meeting of KVK, Nayagarh

1. Emphasis on Soil Conservation Activities
2. Promotion of Natural farming among the farmers
3. Focus on Sugarcane Jaggery packaging and marketing through
4. Value addition of Millets
5. Bio-floc technology with different species
6. Integrated pest Management (IPM) of important crops
7. Documentation of outreach, accomplishment of KVK activities

The meeting ended with a vote of thanks by Senior scientist & Head.

27/01/2023

Sr Scientist and Head
KVK, OUAT, Nayagarh

Senior Scientist & Head
KRISHI VIGYAN KENDRA
O.U.A.T., Nayagarh-752070

27/01/2023

JOINT DIRECTOR EXTENSION
(DISTANCE EDUCATION)
O.U.A.T., BHUBANESWAR

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ANNEXURE-I

List of Members attended the SAC Meeting held on 16.01.2023 at 10.30 AM.

S.N	Name of participant	Address	Status
1.	Dr M.P Nayak	Joint Director (Info), DEE, OUAT, Bhubaneswar	Chairman
2.	Dr H.F Rehman	Principal Scientist, ICAR-ATARI, Kolkata	Member
3.	Dr H.K. Dey	Principal Scientist, ICAR-CIFA, Bhubaneswar	Member
4.	Prof. C.M Khanda	ADR, RRTTS(CZ), OUAT, Bhubaneswar	Member
5.	Prof. P.K Nayak	OIC, SRS, OUAT, Nayagarh	Member
6.	Sri. S.C Mohapatra	CDAO, Nayagarh	Member
7.	Sri. L.K Panda	DDH, Nayagarh	Member
8.	Dr A.K Jena	ADVO, Nayagarh	Member
9.	Mr Mohitosh Giri	EE (Agril), Nayagarh	Member
10.	Mr Sudhanshu Satpathy	PD, Watershed, Nayagarh	Member
11.	Dr. Pratap Kumar Pradhan	Nodal Officer, O/O CDVO, Naygaarh	Member
12.	Mrs. Subhashree Mishra	ADFO, Nayagarh	Member
13.	Mrs. Trupti Tapasi	DDM, NABARD, Nayagarh	Member
14.	Mr S. Pattnaik	LDM, SBI, Nayagarh	Member
15.	Mr B.P Pattnaik	DD Representative, Nayagarh	Member
16.	Mr Chakradhar Jena	Farmer, Nayagarh (Small farmer)	Member
17.	Mr Swaraj Mohanty	Farmer, Nayagarh (Big farmer)	Member
18.	Mrs Sini Jena	Women Farmer Representative, Nayagarh	Member
19.	Mrs Janaki Pradhan	Women Farmer Representative, Nayagarh	Member
20.	Mr Sanjay Das	OLM, Nayagarh	Invitee
21.	Mrs. Gitanjali Subudhi	Scientist (Home Science), KVK, Nayagarh	Invitee
22.	Dr. Lata Mallick	Scientist (Soil Science), KVK, Nayagarh	Invitee
23.	Dr. Madhumita Jena	Scientist (Agril. Extn.), KVK, Nayagarh	Invitee
24.	Mrs. Suchismita Dwivedy	Scientist (Agril. Engg), KVK, Nayagarh	Invitee
25.	Mrs. Snigdha Pattnaik	SMS(Agrometeorology), KVK, Nayagarh	Invitee
26.	Dr. Jyoti Rekha Pattnaik	Jr. Scientist (Agronomy), SRS, Nayagarh	Invitee
27.	Ms. Swagatika Mohanty	Jr. Scientist (Plant Pathology), SRS, Nayagarh	Invitee
28.	Sj. Debashis Nayak	Farm Manager, KVK, Nayagarh	Invitee
29.	Dr. Anil Kumar Swain	Senior Scientist and Head, KVK, Nayagarh	Secretary

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

Sl. no.	Item	Information
1	Major Farming system/enterprise	Rice – Greengram
2	Agro-climatic Zone	East and South Eastern Coastal Plain Zone
3	Agro ecological situation	Rainfed Laterite
4	Soil type	Mixed red, alluvial
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Paddy-45q/ha, Greengram-4.68q/ha, sugarcane-69.95ton/ha
6	Mean yearly temperature, rainfall, humidity of the district	1354mm, 38°C, 87%
7	Production of major livestock products like milk, egg, meat etc.	21.76 TMT milk 120 lakh egg + 0.136 TMT

Note: Please give recent data only

2.b. Details of operational area / villages (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	Nayagarh	Gania	Kendupalii	Paddy, Pigeon pea, Vegetables, Mushroom & Poultry	• Labour problem in different agricultural operation in pulses. • Poor productivity of Pigeon pea due to disease complex • Non-commercialization of organic wastage • Low productivity of country birds	• Farm mechanization in pigeon pea • IPDM in greengram • Promotion of Renewable energy • Vermi-compostproduction • Rearing management of improved poultry Cultivation of Paddy straw mushroom with threshed straw
2	Nayagarh	Bhapur	Laxmiprasad	Paddy, Greengram, Vegetables, Mushroom	• Severe yield loss due to attack of BPH in paddy • Low price of vegetables in Rabi season • Under utilisation of threshed	• IPDM measures in paddy • Off season vegetable cultivation & Promotion of floriculture • Varietal evaluation &

					paddy straw	production management offish • Cultivation of Paddy straw mushroom with threshed straw
3	Nayagarh	Nayagarh	Sarapada	Paddy, Greengram Vegetables, Groundnut Sesamum, Fishery,	• Severe infestation of insect pest and disease in paddy, pulses. oilseed& vegetables • Imbalance use of manures and fertilizers with weed problem in Paddy, pulses & oilseeds leading to low productivity • Poor yield due to disease Complex in vegetables & fruits. • Potato chips through open sun drying is more time consuming and poor hygienic process • Low growth rate of normal Rohu with low availability of natural plankton leading to less fish yield	• Organic farming in paddy, oilseeds &vegetables • Integrated weed management in pulses &mango • INM &IDM in vegetables • Value addition of vegetables • Introduction of improved fish variety with feed management
4	Nayagarh	Ranapur	Malisahi	Paddy, Greengram Mustard,	• Use of excessive nitrogenous fertilizer in rice leads to degradation of soil fertility &more incidence of pest & disease. • Low growth rate and yield of green gram due to sowing during (low temp) 4th week of Dec. • Labour problem in sowing of greengram • Less return from paddy fallow areas • Low milk yield due to poor feeding	• INM & IPDM in paddy • ICM in Rabi greengram • Farm mechanization. • Introduction of short duration oilseed crops • Feeding management of dairy animals.
5	Nayagarh	Nuagaon	Dimiripalli	Paddy, Greengram, vegetables Poultry	• Labourer problems for different farm activities • Low price of vegetables in Rabi season • Low productivity of country birds.	• Farm mechanization in vegetables • Introduction of high yielding varieties • Off season cultivation of onion & cauliflower • Rearing management of improved breed of Poultry

2. c. Details of village adoption programme:

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

Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
Kendupalii	2021-22	Gania	120	755	114
Laxmiprasad	2021-22	Bhapur	30	5103	254
Sarapada	2021-22	Nayagarh	30	1577	235
Malisahi	2021-22	Ranapur	42	1028	261
Dimiripalli	2021-22	Nuagaon	50	895	244

2.1 Priority thrust areas

S. No	Thrust area
1.	Varietal substitution in rice, particularly for rain-fed upland and medium land types.
2.	Crop diversification from rice to pulse (Arhar), oilseed (Sunflower, ground nut) sugarcane and tuber crop based cropping systems.
3.	Integrated nutrient management by incorporation of crop residues/forest litters, green manuring, improvised composting and balanced use of inorganic and bio-fertilizers.
4.	Popularizing ecofriendly pesticides and bio-control agents and IPM practices for borers in sugarcane, rice and brinjal.
5.	Revolutionizing fresh water fish farming by including freshwater prawn (Scampi) in composite pisciculture system.
6.	Empowerment of rural youth and SHGs through remunerative agro based enterprises like value addition of fruits and vegetables, mushroom production, bee keeping, floriculture, poultry farming and nursery raising.
7.	Rejuvenating mango and cashew orchards and developing Alternative Land Use system models.
8.	Scientific method of fish production with freshwater prawn culture, integrated farming system research and stunted fingerlings & yearlings stocking.
9.	Income generation from backyard poultry for economic upliftment.
10.	Raising of fuel wood, timber and fodder yielding species to meet the local demand and production, value addition of minor forest products.
11.	Varietal substitution in rice, particularly for rain-fed upland and medium land types.
12.	Popularization of Farm implements to reduce drudgery as well as cropping intensity.
13	Post harvest processing

3. TECHNICAL ACHIEVEMENTS

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

OFT												FLD										
No. of technologies tested:												No. of technologies demonstrated:										
Number of OFTs		Number of farmers										Number of FLDs		Number of farmers								
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement							
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
12	12	120	26	15	12	08	35	24	73	55	120	22	21	120	18	17	16	13	43	13	77	43	120

Training											Extension activities										
Number of Courses		Number of Participants									Number of activities		Number of participants								
Target	Achievement	Target	Achievement								Target	Achievement	Target	Achievement							
			SC		ST		Others		Total						SC		ST		Others		Total	
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
66	64	1470	83	78	55	42	216	96	354	216	1430			903	115	120	105	98	305	165	585	100	685

Impact of capacity building											Impact of Extension activities										
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								
Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T
80	80	1	0	0	0	3	1	4	1	5	80	80	1	0	0	0	2	1	3	1	4

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
		1.0	1.15

Livestock strains and fish fingerlings produced (in lakh) *		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
0.50000	0.40000	0.00500	0.0371

* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper	-	-	-	-	-	-	-
Seminar/conference/ symposia papers	-	-	-	-	-	-	-
Books	-	-	-	-	-	-	-
Bulletins	-	-	-	-	-	-	-
News letter	4	2000	-	-	-	-	-
Popular Articles	6	3000	-	-	-	-	-
Book Chapter	-	-	-	-	-	-	-
Extension Pamphlets/ literature	5	5000	-	-	-	-	-
Technical reports	6	600	-	-	-	-	-
Electronic Publication (CD/DVD etc)	12		-	-	-	-	-
TOTAL	33	10600	-	-	-	-	-

3.1 Achievements on technologies assessed and refined

OFT-1

1.	Title of on Farm Trial	**Assessment of Integrated Management of sucking pest in okra**
2.	Problem diagnosed	Sucking pest like white fly, aphid and jassid severely reduces the yield
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed TO_1 : Seed treatment with Imidacloprid 600 FS @ 5ml/kg of seed, Installation of Yellow Sticky trap @ 50 nos./ha, alternate, spraying of Afidopyropen 50 g/l DC @ 1000 ml /ha and Azadirachtin 300 ppm @ 2.5 lit/ha at 10 to 15 days interval starting from 30 DAS TO_2 : Alternate spraying of Tolfenpyrad 15% EC @ 1000 ml/ha and Azadirachtin 300 ppm @ 2.5L/ha at 10 to 15 days interval starting from 30 DAS
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AAU, Anand, 2022, RVSKVV, Gwalior, 2021
5.	Production system and thematic area	Vegetable-vegetable,IPM
6.	Performance of the Technology with performance indicators	Average no. of Jassids, Aphids & White flies/06 leaves, PDI (YVMV) (%), Yield, ICBR (crop is in the field)
7.	Final recommendation for micro level situation	Integrated management of sucking pest
8.	Constraints identified and feedback for research	Crop is in the field and harvesting is going on
9.	Process of farmers participation and their reaction	One to one discussion, New chemicals like Afidopyropen 50 g/l DC and Tolfenpyrad 15% EC are working well and good control measure is observed

Thematic area: Integrated disease pest management

Problem definition: Sucking pest like white fly, aphid and jassid severely reduces the yield

Technology assessed: **Assessment of Integrated Management of sucking pest in okra**

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	10	Result Awaited								
TO_1										
TO_2										

OFT-2

1.	Title of On Farm Trial	**Refinement on IPM module for management of sucking pest in Brinjal**
2.	Problem diagnosed	Sucking pest like white fly, aphid and jassid severely reduces the yield
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**TO_1 :** Installation of Yellow sticky trap @50/ha, Alternate spraying of Spiromesifen 22.9 SC @ 500 ml/ha and Neem oil (300 ppm) @ 2.5 L/ha at 10 to 15 days interval starting from 30 DAS, **TO_2 :** Alternate spraying of (Spirotetramat 11.01 + Imidacloprid 11.01) SC @ 500 ml/ha and Neem oil (300 ppm) @ 2.5 L/ha at 10 to 15 days interval
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**Source:** BCKV, West Bengal, 2017
5.	Production system and thematic area	Vegetable-vegetable,IPM
6.	Performance of the Technology with performance indicators	Yield in FP- 207.6 q/h, No of white fly/leaf-4.6,No of spider mite/leaf-5.8,Yield in ,**TO_1** - 237.2 q/ha,No of white fly/leaf-1.3,No of spider mite/leaf-1.9,Yield in **TO_2**- 248.4 q/ha,No of white fly/leaf-o.9 No of spider mite/leaf-1.2
7.	Final recommendation for micro level situation	Installation of Yellow sticky trap @50/ha, Alternate spraying of (Spirotetramat 11.01 + Imidacloprid 11.01) SC @ 500 ml/ha and Neem oil (300 ppm) @ 2.5 L/ha at 10 to 15 days interval starting from 30 DAS increased the yield by 16.4% as compared to farmer's practice
8.	Constraints identified and feedback research	-
9.	Process of farmers participation and their reaction	One to one discussion, The said technology is very good for reducing sucking pest like white fly and mites in brinjal

Thematic area: Integrated disease pest management
Problem definition: Heavy infestation of mites and whitefly reduces the yield in brinjal
Technology assessed: **Refinement on IPM module for management of sucking pest in Brinjal**
Table:

Technology option	No. of trials	Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	10						
TO_1		Av no. of jassids/06 leaves-11.6 No no. of Aphids /06 leaves-9.5 No no.of whiteflies /06 leaves-8.4 ICBR-4.20 Av no of jassids/06 leaves-13.8	237.2	86535	237200	150665	2.74

		No no of Aphids /06 leaves-12.6 No no of whiteflies /06 leaves-11.4, ICBR-3.91					
TO_2		No of white fly/leaf-1.3 No of spider mite/leaf-1.9, ICBR-3.83 No of white fly/leaf-o.9 No of spider mite/leaf-1.2, ICBR-5.95	248.4	88820	248400	159580	2.79

OFT-3

1.	Title of On Farm Trial	**Assessment of aeration in Aquaculture for off season fish seed production**
2.	Problem diagnosed	Non availability of fish seed during off season (Apr-June)
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed TO_1 : Paddled wheel Aerator TO_2 : Sprinkler based aeration
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-CIFA, NFDB, KVK, OUAT, Nayagarh
5.	Production system and thematic area	Pond Based
6.	Performance of the Technology with performance indicators	Diameter of coverage, Pressure available, DO, Survivability
7.	Final recommendation for micro level situation	Adequate aeration, proper temp. level and oxygen level for off season fish seed production and better bottom level utilization of the farm pond
8.	Constraints identified feedback for research	High cost for Paddled operated aerator
9.	Process of farmers participation and their reaction	Training, OFT

Thematic area: Aquaculture Engineering

Problem definition: Non availability of fish seed in off season

Technology assessed: **Assessment of aeration in Aquaculture for off season fish seed production**

Table:

Technology option	No. of trials	Monitoring Parameters		Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Dia of coverage(cm)	DO level (ppm)				
FP	10	No aeration practice					
TO_1		50-90	8.75	35500	1,34,000	98,500	2.77
TO_2		400	6.11	12280	44080	31,800	2.58

OFT-4

1.	Title of On Farm Trial	**Assessment on Tractor Operated Seed drill for green gram sowing**
2.	Problem diagnosed	Broadcasting seeds with higher seed rate
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed TO_1 : Tractor operated Seed drill with Zero tillage TO_2 : Happy seeder
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on FIM, CAET, OUAT
5.	Production system and thematic area	Rice-green gram and Farm Mechanization
6.	Performance of the Technology with performance indicators	Labour Requirement (MDs/ha), Yield(q/ha), Depth of sowing(cm) Seed rate (Kg/ha)
7.	Final recommendation for micro level situation	Less time consuming, utilization of straw lying on the field after harvest of paddy crop and proper maintaining of soil moisture and mulching for green gram germination
8.	Constraints identified and feedback for research	For happy seed drill State Govt subsidy fascity is not there.
9.	Process of farmers participation and their reaction	Training, OFT

Thematic area: Farm Mechanization
Problem definition: Low yield due to delayed sowing and less net return due to high cost of cultivation, more labour and time consumption. To avoid burning of paddy straw by farmers left by combine harvester
Technology assessed: **Assessment on Tractor Operated Seed drill for green gram sowing**
Table:

Technology option	No. of trials	Yield component			Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Seed rate (kg/ha)	Field capacity (ha/hr)	Labour (m.d./ ha.)					
FP	10	25	0.2	4	3.0	2400	3900	2500	1.62
TO_1		20	0.18	3	3.6	2850	6570	3720	2.30
TO_2		18	0.4	1	4.1	2350	6300	4950	2.68

OFT-5

1.	Title of On Farm Trial	**Assessment of influence of age of the spawn on the yield of paddy straw mushroom.**
2.	Problem diagnosed	Low yield of Paddy straw mushroom due to influence of age of the spawn
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed TO_1 : 2% dry substrate weight 12 days age spawn with soaking of straw in 2% $CaCo_3$ and 150g red gram powder per 10 kg substrate TO_2 : % dry substrate weight 15 days age spawn, soaking of straw in 2% $CaCo_3$ and 150g red gram powder per 10 kg substrate
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	Homestead, Income Generation
6.	Performance of the Technology with performance indicators	Very Good; Average weight/fruit body, Pin head appearance(days), Bio efficiency(%),Yield (kg/bed), Days of 1st flush, Cost of intervention, Net profit, B C ratio.
7.	Final recommendation for micro level situation	Circular compact bed size (45 cm diameter) mushroom production by using crumbled paddy straw provides higher yield of Paddy straw mushroom than square/rectangular compact bed size.
8.	Constraints identified and feedback for research	1.The findings of the assessment is made for Kharif season. Hence to ascertain the findings it should be repeated during Summer and Rabi season.
9.	Process of farmers participation and their reaction	Training, awareness, group discussion. They are very much interested to cultivate to have best return from their unutilized crumbled paddy straw

Thematic area: Income Generation

Problem definition: Low yield of Paddy straw mushroom due to influence of age of the spawn

Technology assessed: **Assessment of influence of age of the spawn on the yield of paddy straw mushroom**

Table:

Technology option	No. of trials	Yield component				Yield (kg/bed)	Cost of cultivation (Rs./ha)	Gross return (Rs/bed)	Net return (Rs./bed)	% Increase in Income	BC ratio
		Bio efficiency (%)	Pin head appearance (days)	Days of 1st flush	Ave. wt. of fruiting body						
FP	10	10.3	13	16	26	0.515	55/-	82.40	27.40	-	1.49
TO_1		10.8	13	16	26	0.540	55/-	86.40	31.40	14.6	1.57
TO_2		12.2	13	16	27	0.610	55/-	97.60	42.60	55.5	1.77

OFT-6

1.	Title of On Farm Trial	**Assessment of drudgery on different maize sheller suitable for farm women**
2.	Problem diagnosed	More drudgery and time consumption in shelling of maize manually
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed TO_1 : CIWA flexible hand operated maize sheller TO_2 : Pedal operated maize sheller
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO-I: ICAR-CIWA, BBSR-2017, TO-II: CAET, OUAT, BBSR-2020
5.	Production system and thematic area	Homestead, drudgery reduction
6.	Performance of the Technology with performance indicators	Very comfortable; Energy expenditure (KJ/min), WHR(beats/min), % reduction in drudgery, % increase in efficiency.
7.	Final recommendation for micro level situation	Circular compact bed size (45 cm diameter) mushroom production by using crumbled paddy straw provides higher yield of Paddy straw mushroom than square/rectangular compact bed size.
8.	Constraints identified and feedback for research	The finding of the assessment is made at one location. Hence to ascertain the findings it should be repeated at different locations and at different seasons.
9.	Process of farmers participation and their reaction	Training, awareness, group discussion. They are very much interested to use the implement as it is comfortable; reduces their finger pain and drudgery,.

Thematic area: Drudgery Reduction.
Problem definition: High drudgery and low efficiency in maize shelling by hand.
Technology assessed: Assessment of drudgery on different maize Sheller for farm women.

Table:

Technology option	No. of trials	Yield component			% Reduction in Drudgery	% increase in efficiency	Cost of cultivation (Rs./qt)	Gross return (Rs/qt)	Net return (Rs./qt)	BC ratio
		Out put (Kg/hr)	Energy expenditure (KJ/min)	WHR(beats/ min)						
FP	10	7.4	9.247	113	-	-	1751.00	2000.00	209.00	1.11
TO_1		13.5	5.908	92	36.1 % (-)	82.4 %	1524.00	2000.00	476.00	1.31
TO_2		16.2	4.954	86	46.4 % (-)	118.8 %	1470.00	2000.00	530.00	1.36

OFT-7

1.	Title of On Farm Trial	**Assessment of performance of FPOs with varied level of task and commodity to enhance income**
2.	Problem diagnosed	Unorganized marketing channels fetches lower price of the farm produce
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	FPO, NABARD
5.	Production system and thematic area	Value chain, Market led Agriculture
6.	Performance of the Technology with performance indicators	Both **TO_2** &**TO_3** FPOs are much interested in contributing the share capital for FPO management. Producing the inputs in bulk quantities, receiving technical advisory/technical information and finding it easy to sell through FPOs are the positive indicator for FPOs sustainability.
7.	Final recommendation for micro level situation	Marketing linkage for disposing the produce in at remunerative price is a bigger challenge. In **TO_2** respondents have shown a less Mean Score value when it comes to purchase of critical inputs from FPOs. FPO should work as a single window delivery system to their shareholders.
8.	Constraints identified and feedback for research	--
9.	Process of farmers participation and their reaction	FPO needs to work in a much-organized way to address marketing related issues

Thematic area: Market led Agriculture

Problem definition: Low bargain price of the commodity due to un-organised farmer groups

Technology assessed:

FP: Farmers marketing their produce through intermediaries- Middle Man, whole seller, Local Traders, Out Side Traders

TO_1: FPOs dealing with single commodity with single task – Marketing of specific commodity by various channels

TO_2: FPOs dealing with single commodity with multiple tasks- services provided from Production to marketing of a specific commodity

TO3: FPOs dealing with multi commodities with single task- Marketing of several commodities by various channels

Sl No.	**Statements**	**TO_2 (N=36)**				**TO_3 (N=36)**			
		SA(%)	A(%)	DA(%)	MS	SA(%)	A(%)	DA(%)	MS
1.	A farmer interested to become a member	41.7	33.3	25	2.17	66.7	33.3	0	2.67

2.	Contribution to share capital	33.3	58.3	8.3	2.25	75	16.7	8.3	2.75
3.	Purchase of critical input from FPO	8.33	25	67	**1.42**	25	50	25	2.08
4.	Easy to produce the crops in bulk	33.3	58.3	8.3	2.25	33.3	66.7	0	2.33
5.	Find it Easy to sell produce through FPO	16.7	41.7	42	1.92	58.3	8.33	33	2.25
6.	Involvement in FPO business plan/AGM	8.33	66.7	25	1.83	33.3	41.7	25	2.17
7.	Receive crop advisory/ technical information	33.3	33.3	33	2	41.7	58.3	0	2.42
8.	Participate in meal/exhibition for promotion of the value-added product.	33.3	41.7	25	2	33.3	33.3	33	2
9.	Liason with bank /financial institution.	25	33.3	42	2.08	25	41.7	33	2
10.	Easy to develop market linkage	0	58.3	42	1.58	8.33	50	42	**1.67**

(SA: Strongly agree, A: Agree, DA: Disagree, MS: Mean Score)

OFT-8

1.	Title of On Farm Trial	Assessment of effectiveness of various sources of information for pest management in rice
2.	Problem diagnosed	Timely access to agricultural information is quite limited which effects the crop condition to a larger extent.
3.	Details of technologies selected for assessment/refinement(Mention either Assessed or Refined)	Assessment
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	--
5.	Production system and thematic area	Rainfed low land, information management
6.	Performance of the Technology with performance indicators	Maximum gap was found on usability of the information by the farmers by 36 % **TO_2** whereas minimum gap was found in timeliness of the message and effectiveness of the information by **TO_3**
7.	Final recommendation for micro level situation	More emphasis should be given on technical information which is relevant to the farming situation and usability of information. Technical information by the input dealers (**TO1**) should be location specific and accuracy of the message should be verified too.
8.	Constraints identified feedback for research	--
9.	Process of farmers participation and their reaction	Crop advisory should be timely and broad-spectrum pesticide should be recommended which would help the farmers to avoid repeated spraying.

Thematic area: Information Management

Problem definition: Timely access to agricultural information is quite limited which effects the crop condition to a larger extent.

Technology assessed:

TO_1: Information from input dealers (Information to be collected through identified dealers)

TO_2: Technological backstopping from Extension functionaries (Information through VAWs/e pest surveillance)

TO_3: Technological backstopping from KVK

Sl No.	Performance Indicators	**TO_1 (N=20)**		**TO_2 (N=20)**		**TO_3 (N=20)**	
		MS	Gap(%)	MS	Gap(%)	MS	Gap(%)
1.	Timeliness of the message	4.2	16	3.8	24	4.6	8
2.	Accuracy of the information	4.0	20	4.2	16	4.4	12
3.	Relevance to farming situation	3.6	28	3.8	24	3.8	24
4.	Usability of the information	**3.5**	30	**3.2**	36	**3.4**	32
5.	Effectiveness of the Information	4.4	12	4.4	12	4.6	8

Level of satisfaction was derived from the beneficiaries (N=60) by using 5-point Likert scale.
Very much satisfied (VS),
Satisfied (S),
Undecided (U),
Dissatisfied (D),
Very much dissatisfied (VD).
Mean Score (MS)

OFT-9

1.	Title of On Farm Trial	**Assessment of intercropping in mango farming system**
2.	Problem diagnosed	Most of the mango plantations are remained vacant and no intercropping is practiced in the farming situation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Pine apple suckers were trimmed and treated with Bavistin and planted between mango trees at as pacing of 60x30 cm. besides this, yam suckers also planted at mango tree base with seed treatment with Bavistin in kharif season.
4.	Source of Technology (ICAR/ AICRP/SAU	CHES, 2016
5.	Production system and thematic area	Agroforestry management
6.	Performance of the Technology with performance indicators	Gives additional income to the farmers within 8 months besides mango fruits
7.	Final recommendation for micro level situation	Sucker treatment should be done by farmers. Need base use of fungicide with mulching should be followed by the farmers for better result.

8.	Constraints identified and feedback for research	Wild animals somewhat damaged the pine apple after fences with wire. So, wild protection to be carried how?
9.	Process of farmers participation and their reaction	Farmers were planted lately after repeated follow up and fruiting comes out very lately.

Thematic area: Agroforestry Management

Problem definition: Most of the mango plantations are remained vacant and no intercropping is practiced in the farming situation

Technology assessed: Pine apple suckers were trimmed and treated with Bavistin and planted between mango trees at as pacing of 90x60 cm.

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
Result Awaited										

OFT-10

1.	Title of On Farm Trial	**Assessment of different sweetcorn hybrids in Agri-silvi agroforestry model**
2.	Problem diagnosed	Un-utilization of interspaces in different forest plantations
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Sweetcorn seeds are sown at a spacing of 60x90 cm with proper seed treatment and land preparation. These seeds are sown in teak plantation leaving 1ft. from tree base.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Annual Report, OUAT, 2019
5.	Production system and thematic area	Agroforestry management
6.	Performance of the Technology with performance indicators	Gives additional income to the farmers within 3 months besides tree plantation
7.	Final recommendation for micro level situation	Seed treatment should be done by farmers. Need base and alternate use of fungicides should be followed by the farmers for better result.
8.	Constraints identified, feedback for research	Whether cash crops are to be sown or planted in any agroforestry system
9.	Process of farmers participation reaction	At first, they were unwilling to do the task but later on they did to some extent

Table:

Technology	No. of	Yield component	Disease/	Yield	Cost of	Gross	Net return	BC

option	trials	No. of cobs/plant	Test wt. (100 grain wt.)	insect pest incidence (%)	(q/ha)	cultivation(Rs./ha)	return (Rs/ha)	(Rs./ha)	ratio
Pusa Sweetcorn 1	10	2.00			75.8	51,008	1,51,389	1,00,382	2.97

OFT-11

1.	Title of On farm Trial	**Refinement of management practices for control of Argulus in Fishes in carp polyculture**
2.	Problem diagnosed	Less production
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Refinement TO_1: Ivermectin 2% w/w@ 250g/ 1 ton feed TO_2: CIFRIARG (TANDAV) TO_3: CIFRIARG (DANAV)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-CIFA (2018), BENFISH (2018), CIFRI, Barrackpore
5.	Production system and thematic area	Culture based system and Fish Health Management
6.	Performance of the Technology with performance indicators	Argulus Population / Fish, Fish Mortality (%), Argulosis Incidence (Day, Fish wt.(gm.), Yield (q/ha)
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and reaction	On Farm Trial

Thematic area: Health Management

Problem definition: Slow growth rate of Mrigal (Bottom feeder) affects the average yield in carp polyculture

Technology assessed: Refinement of management practices for control of Argulus in Fishes in carp polyculture

Table:

Technology option	No. of trials	Yield component			Argulus Population / Fish	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Fish Mortality (%)	Plankton (ml/100l)	Avg. Body wt. (gm)						
FP	10	8	4	650	7	20.69	132825	248325	115500	2.15
TO_1	10	0	2	700	0	24.53	169155	294455	125300	2.35
TO_2	10	0	2	730	0	27.00	189000	324000	135000	2.40
TO_3	10	0	5	720	0	24.41	162750	292950	130200	2.25

OFT -12

1.	Title of On Farm Trial	**Assessment of suitable species in Biofloc technology**
2.	Problem diagnosed	Less production from biofloc unit with IMC
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Refinement TO_1: Tilapia TO_2: Amur Carp TO_3: Pangasus
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-CIBA, ICAR-CIFA, ICAR-CIFRI
5.	Production system and thematic area	Tank based and Varietal Evaluation
6.	Performance of the Technology with performance indicators	Growth rate (%), Yield (q/ha)
7.	Final recommendation for micro level situation	GIFT Tilapia species is suitable for Biofloc system of fish farming
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	On farm Trial

Thematic area: Varietal Evaluation
Problem definition: Less production from biofloc unit with IMC
Technology assessed: Assessment of suitable species in Biofloc technology
Table:

Technology option	No. of trials	Yield component		Maturity (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Avg, length (cm)/6month	Avg. Body wt. (gm)/6months						
FP	10	45	850	Not observed	65 kg	142825	248325	105500	2.73
TO_1		25	350	30%	78 kg	159055	294455	135400	2.85
TO_2		40	650	-	60kg	193000	324000	131000	2.67
TO_3		55	700	-	85 kg	153750	292950	139200	1.90

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
				Propose	Actual	SC		ST		Othe		Total			
						M	F	M	F	M	F	M	F	T	
1.	Sweetcorn	Integrated pest management	Seed treatment with (cyantraniliprole 19.8+Thiamethoxam 19.8) FS @ 6 ml/kg of seed, Alternate Spraying of Spinetoram 11.7 SC @ 250 ml/ha and *Bacillus thuringiensis* @ 1kg/ha	1	1							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					
Sweetcon	Rabi	Irrigated	Sandy Loam				Paddy	1.12.2023 to 4.12.2023	3.03.205.03.2024		

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

Oilseeds:

Frontline demonstrations on oilseed crops

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

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

Pulses

Frontline demonstration on pulse crops

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

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

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Turmeric	Agroforestry management	Small pits are made with a hand hoe on the beds with a spacing of 15 cm x 30 cm. Pits are filled with well decomposed cattle manure or compost, seed rhizomes are placed over it then covered with soil. The optimum spacing is 30 - 45 cm between the rows and 25 cm between the plants.	10	0.4	128	100.6				1,12,418	2,11,558	99,140	1.88	91,427	1,5,3899	62,472	1.68

Brinjal	Integrated disease management	Demonstration of bacterial wilt management in brinjal	10	1	Crop is in the field and harvesting is going on	Crop is in the field and harvesting is going on											
Chilli	Integrated disease management	Demonstration of Integrated management of leaf curl in chilli	10	1	Crop is in the field and harvesting is going on	Crop is in the field and harvesting is going on											
Bittergourd	Integrated pest management	Demonstration of Integrated management of fruit fly bitter gourd in	10	1	98.4	87.6	10.9			65965	196800	130835	2.98	62035	175200	113165	2.82

Black Turmeric (*Cucurma caesia))*	Production of low volume high value crops+	Black turmeric (*Cucurma caesia*) Rhizomes. Rhizomes are planted at 30*30cm distance in a Raised beds (height of 15-20cm and 1-1.2 mt width). Seed rate for intercrop - 125kg/acre.	10	0.625	62	188		Fresh Rhizome weight per plant-332gm	Fresh Rhizome weight per plant - 820gm	508000	1550000	1042000	3.05	405000	940000	535000	2.32
Sugar cane	Value Addition	Ladies finger stem extract-500ml/500 litrs of sugarcane juice Sodium hydrous powder-15 ppm (0.014 g/lit)	10	10 units	Colour-Golden brown, Shelf life-12 month	Black colour, Shelf Life-8month	-	Shape-Round	Non uniform	452	1500	830	1.74	370	580	210	1.56

Lemon Grass (*Cymbopogon citratus*)	Production of low volume high value crops	Lemon grass (Variety: Sugandhi OD 19) slips. Slips are planted at a distance of 60*60cm.First harvesting is done in about 5-6 days after planting and subsequently at 60-70 days Intervals depending upon the foliage growth	06	0.52	260	--	--	Avg no. of tiller/clumps 38 Plant Height(cm)-102.6	--	108000	187000	79000	1.73	--	--	--	-
Sweet Potato	Nutri-rich vegetables	i.Var.-Bhu Sona. ii.Spacing-60x30 cm2 iii.Rich in Beta Carotene-14 mg/100g)	10	0.4	142	114	24.56			76,200/-	2,13,000/-	1,36,800/-	2.79	74,000/-	1,71,000/-	97,000/-	2.31

Turmeric	Agroforestry management	Small pits with a spacing of 15 cm x 30 cm. Pits are filled with well decomposed cattle manure or compost, seed The optimum spacing is 30 - 45 cm between the rows and 25 cm between the plants.	10	0.4	128.0	100.6				1,12,418	2,11,558	99,140	1.88	91,427	1,5,3899	62,472	1.68
Sal	value addition	Leaf plate making by mechanical operation	10	-	1,10,000 sal leaf plate /yr	46,000 sal leaf plate/ yr				28,355 (Rs./household/yr)	67,338	38,983	2.39	18,061	31,122	13,221	1.72
Sal		Vermicomposting by forest leaves (Sal) by using waste decomposer	10	-													
		Total	106	5.345,10 units													

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.)				*Economic (R	
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return
Dairy															
Cow															
Buffalo															
Poultry	Income generation	**Demonstration on poultry bird Pallishree in backyard system for farm women** (Rearing of poultry bird Pallishree in backyard) .(Source:OUAT, 2012)	05	05 units	Body weight at 06 week age-1.65kg	Body weight at 06 week age-0.290kg	468.96	(i)Body weight at 1day(0.044kg), 07 day(0.104kg), 21 day(0.645 kg), 06 week(1.65 kg) (ii)Age of laying egg-20th-21st week, (iii)Annual egg production-80 to 90, (iv)Mortality rate-2%	(i) Body weight at 1day(0.042kg), 07 day(0.91kg), 21 day(0.175 kg), 06 week(0.290 kg) (ii)Age of laying-20th-21st week, (iii)Annual egg production-80 to 90, (iv)Morbidity rate -3%	120	231	111	1.925	80	
Rabbitry															
Pigerry															
Sheep and goat															
Duckery															
Others (pl.specify)															
Total															

Livestock

* 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	Varietal Performance	**Demonstration of Amur carp for increasing fish production in poly-culture system** Stocking ratio- Catla: Rohu: Mrigal: Amur carp: 30:40:10:20	10		20.5	18.3	12.02	Avg. body wt. (gm.) 1050/ 6 month	Avg. body wt. (gm.) 750/ 6 month	20.5	196475	331975	2.45	151875	264375	112500	2.35
Mussels																	

Freshwater Prawn	Varietal Performance	**Demonstration of Freshwater Prawn with Carp (Grass Carp)** Stocking of Freshwater Prawn-10000PL, Grass Carp Fingerling 500nos, Catla-3000, Rohu-2000nos fingerling per ha	10	10	22.4	18.3	22	820-Carp	50g-Prawn 1250(Grass carp)	129018	322547	1,90,400	2.9	110168	275421	1,42,500	2.5
		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 (Yield)		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Paddy straw mushroom	Presoaking of straw by application of 2% calcium carbonate for 6 hours, dipping in the polythene and wiping the rack with calcium carbonate for management of ink cap.(Source: AICRP on Mushroom 2017)	10	10	1.15 kg/bed	0.98 kg/bed	17.35	Infestation of inkcap-3%, Ave. Fruiting body-32gm, Days of first flush-11	Infestation of inkcap-9%, Ave. Fruiting body-31gm, Days of first flush-11	80/-	184.00	104.00	2.3	80/-	156.80	76.80	1.96

Button mushroom																
Vermicompost																
Sericulture																
Apiculture																

Value Addition	(Soaking (4 hour), germination at room temperature in moist cloth, drying(50 degree Centigrade for 8 hours), roasting, milling). **(**Source: AICRP on Post Harvest Technology, OUAT, BBSR 2012)	10	10	Income-Rs.58/-per kg product	Income-Rs.17/-per kg product	241	Sensory Evaluation - Palatability : very nice to taste, Flavour: Appealing, Looks: Light grey	Sensory Evaluation - Palatability : Tasty to be cooked, Flavour: Mild, Looks: Dark grey	110/-	168/-	58/-	1.53	63/-	80/-	17/-	1.27

Others (pl. specify)	Effectiveness of short technology videos on technology adoption Preparation of small videos (1.5-2.0 minutes) on different activities of production process of selected commodities and the same will be sent through WhatsApp to the identified farmers)	30		Informative: 2.76 Understandable: 2.8 Timeliness: 2.5 Applicability:2.73	Informative: 2.52 Understandable: 2.18 Timeliness: 2.42 Applicability:2.15	9.5 32.1 3.3 26.9	Change in Knowledge:2.65 Change in skill: 2.42 Change in adoption:2.35	Change in Knowledge:1.85 Change in skill: 1.46 Change in adoption:1.65								

	Transfer of technology through harnessing human values in agriculture	30		Dissemination of technology: 1.95 Horizontal spread:1.58 Technology Adoption:1.49	Dissemination of technology: 1.51 Horizontal spread:1.24 Technology Adoption:1.23	29.1 27.4 21.1	Increase social recognition : 2.14 Increase cosmopoliteness: 2.05 Treated as resource person: 2.32	Increase social recognition : 1.75 Increase cosmopoliteness: 1.80 Treated as resource person: 1.74								
	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					
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									
Tractor drawn Seed Drill	Rice	Tractor drawn seed drill (9-row), Field capacity-1 acre/hr, Preemergence weedicide: - Pretiacholar 50%EC Postemergence weedicide: - Bispyribac sodium @ 25 g/ha	10	1.0	47.2	39.5	16.31	3.0	25.8	22.8		61321	38907	22,416	
Ragi Thresher cum Pearler	Ragi	Electric operated ragi thresher cum pearler with 1 hp motor	10	10 units	90	5	17.0	2	10	8		750	2800	2050	

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

** BCR= GROSS RETURN/GROSS COST

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
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)	Roma	10	0.4	128.0	100.6	27.2	1,12,418	2,11,558	99,140	1.88
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl. specify)										
Total										

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
	Sweet Potato	Sweet Potato (var. Bhu Sona) is fairly accepted by the farm women as it contains Beta Carotene @ 10.0 mg/100g of Sweet Potato. Beta Carotene is essential for healthy vision, strong Immune system; healthy skin & mucous membranes.
	Poultry	OUAT Kalinga Pallishree breed is a colour synthetic broiler bird which can grow up to 1.650 kg in the 6th week with optimum feed conversion ratio and it is preferred by both the consumer as well as the producer.
	Paddy straw mushroom	Application of 2% calcium carbonate increases fruiting Paddy straw mushroom up to 17.35%
	Ragi	When Ragi malt powder is prepared ready to be served with luke warm water, it becomes more palatable and more nutritious.

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training	11.08.2023, 15.09.2023, 16.12.2023 21.07.2023 and 25.01.23 29.08.2023 & 25.01.2023 29.09.2023 18.07.2023; 01.08.2023; 23.08.2023; 02.09.2023	03 04 01 04	75 100 25 100	
3.	Media coverage				
4.	Training for extension functionaries	21.09.2023 & 22.09.2023	01	20	By introduction of Ragi malt powder, Anganwadi Workers are encouraged to enhance the nutritional status of pre-school children, adolescent girls as well as pregnant & lactating mothers.

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2023 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	Pigeon pea	Indigenous seeds (Huda **Kandula**)	9.10	827	11.24	2000	LRG 52 Line sowing of seed with spacing 75cmx60 cm. Seed treatment with Trichoderma Viride @ 10 gms per kg of seed. Seed inoculation with Rhizobium & Phosphate Solublizing Bacteria (PSB) culture @ 10 ml per kg of seed Hoeing and	25	10	9.8	8.4	9.1	10.3	-23.5	-119.7

							earthing up after 21 DAS & 42 DAS to control weed population. Application of Validamycin 3%L @2ml per 1lit of water to control collar rot. Application of Chloropyriphos 50%+ Cypermethrin 5% EC @1lit/ha to control leaf webber. Spraying of Planofix @ 4ml/15 lit of water at flower initiation stage for better pod setting.								

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
	LRG 52 Line sowing of seed with spacing 75cmx60 cm. Seed treatment with Trichoderma Viride @ 10 gms per kg of seed. Seed inoculation with Rhizobium & Phosphate Solublizing Bacteria (PSB) culture @ 10 ml per kg of seed Hoeing and earthing	28400	53755	25355	1.89	28920	59150	30230	2.02

	up after 21 DAS & 42 DAS to control weed population. Application of Validamycin 3%L @2ml per 1lit of water to control collar rot. Application of Chloropyriphos 50%+ Cypermethrin 5% EC @1lit/ha to control leaf webber. Spraying of Planofix @ 4ml/15 lit of water at flower initiation stage for better pod setting.								

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1.	Seed Variety: LRG 52 Line sowing of seed with spacing 75cmx60cm. Seed treatment with Trichoderma Viride @ 10 gms per kg of seed. Seed inoculation with Rhizobium & Phosphate Solublizing Bacteria (PSB) culture @ 10 ml per kg of seed Hoeing and earthing up after 21 DAS & 42 DAS to control weed population. Application of	910	500 (20kg/household)	65	40	370	Purchase of critical inputs for farm activities and household expenses	28

	Validamycin 3%L @2ml per 1lit of water to control collar rot. Application of Chloropyriphos 50%+ Cypermethrin 5% EC @1lit/ha to control leaf webber. Spraying of Planofix @ 4ml/15 lit of water at flower initiation stage for better pod setting.							

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	**Varietal demonstration:** LRG 52 (Amaravathi), Year of Release: 2015, 165-170 days maturity, Indeterminate, semi spreading, dark purple pods, brown and large seeded and moderately	Recommended variety and pest management practices is suitable to the farming system	Optimum plant population per unit area, profuse growth, more no of pod per plant and less incidence of pest & disease	Seed treatment, line sowing, hormone application and control of collar rot.	Cloudy weather results to flower drop.	Yes, the recommended variety and crop management technology is acceptable by the villagers/beneficiaries	--

	resistant wilt. Method Demonstration: Seed treatment with Trichoderma Viride @ 10 gms per kg of seed. Seed inoculation with Rhizobium & Phosphate Solublizing Bacteria (PSB) culture @ 10 ml per kg of seed. **Pest & Disease management**: Application of Validamycin 3%L @2ml per 1lit of water to control collar rot. Application of Chloropyriphos 50%+ Cypermethrin 5% EC @1lit/ha to control leaf webber. **Spraying of plant Hormone**: Spraying of Planofix @ 4ml/15 lit of water at flower initiation stage for better pod setting.						

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
High yielding variety (q/ha)	9.1	8.27	Bold seeded grain, moderately resistance to wilt, higher productivity per unit area and suitable for rainfed upland ecosystem.
Avg. No. of Pod/Plant	320	225	
100 seed weight (gm)	9.52	8.20	

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Method demonstration on seed treatment and sowing techniques	04.08.2023, Laxmiprasad, Bhapur	15
		10.08.2023, Gambharikhola, Daspalla	10
		10.08.2023, Chhanabania, Tabhapalli, Nuagaon	15
2.	Training on Scientific package of practices	01.09.2023, Laxmiprasad, Bhapur	15
3.	Biometric observation and field visit for Geo co-ordinates	02.09.2023, Chhanabania, Tabhapalli, Nuagaon	18
		02.09.2023, Gambharikhola, Daspalla	11
4.	Data collection at vegetative stage	19.11.2023, Gambharikhola, Daspalla	10
5.	Method demonstration on application of plant hormone at flowering stages	01.12.2023, Chhanabania, Tabhapalli, Nuagaon	22
		01.12.2023, Gambharikhola, Daspalla	12
6.	Data collection on pest disease population and other crop related parameters	16.12.2023, Laxmiprasad, Bhapur	15
7.	Field monitoring at pod development and harvesting stage	17.02.2024, Gambharikhola, Daspalla	10
		17.02.2024, Chhanabania, Tabhapalli, Nuagaon	20

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

H. Farmers' training photographs

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

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Chick pea	i) Critical input	--	81806	--
	ii) TA/DA/POL etc. for monitoring	--	2995	--
	iii) Extension Activities (Field day)	--	2600	--
	iv)Publication of literature	--	1500	--
	Total	**90000**	**88901**	**1099**

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

A) Farmers and farm women (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
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													
Others													
Total													
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Off0season vegetables													
Nursery raising													
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													

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
Plant propagation techniques													
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management													
Integrated water management													
Integrated Nutrient Management													

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
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
others													
Total													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
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													
Value addition													
Women empowerment	01	0	22	22	0	03	03	0	0	0	0	25	25
Location specific drudgery reduction technologies													
Rural Crafts													
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
Others													
Total	**01**	**0**	**22**	**22**	**0**	**03**	**03**	**0**	**0**	**0**	**0**	**25**	**25**
VI. Agril. Engineering													
Farm machinery & its maintenance													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total													

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
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL	**01**	**0**	**22**	**22**	**0**	**03**	**03**	**0**	**0**	**0**	**0**	**25**	**25**

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	1	13	7	20	6	3	9	0	0	0	13	07	20
Training and pruning of orchards													
Protected cultivation of vegetable crops	2	27	12	39	1	0	1	0	0	0	28	12	40
Commercial fruit production													
Integrated farming	1	13	07	20	8	2	10	0	0	0	13	07	20
Seed production													
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping	1	14	5	19	1	0	1	0	0	0	15	5	20
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition	01	0	15	15	0	05	05	0	0	0	0	20	20
Small scale processing	01	02	15	20	3	0	05	0	0	0	05	15	20
Post Harvest Technology	01	0	17	17	0	03	03	0	0	0	0	20	20
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													

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
Fish harvest and processing technology													
Fry and fingerling rearing													
Others (Nursery Management of Medicinal and Aromatic plants)	02	6	12	18	1	1	2	0	0	0	7	13	20
Agroforestry managment	02	19	0	19	0	0	0	1	0	1	20	0	20
Total	12	94	90	187	20	14	36	1	0	1	101	99	200

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing	01	0	20	20	0	0	0	0	0	0	0	20	20
Group Dynamics and farmers organization	01	18	2	20	0	0	0	0	0	0	18	2	20
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other(Scientific way od composite fish culture)	01	16	04	20	7	3	10	0	0	0	16	04	20
Total	**03**	**34**	**26**	**60**	**7**	**3**	**10**	**0**	**0**	**0**	**34**	**26**	**60**

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	01	3	0	3	0	0	0	23	0	23	26	0	26
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													
Others													
Total	01	3	0	3	0	0	0	23	0	23	26	0	26
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops	01	5	4	9	7	9	16	0	0	0	12	13	25
Off0season vegetables													
Nursery raising													
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)	01	5	4	9	7	9	16	0	0	0	12	13	25
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards	1	5	2	7	3	0	3	9	6	15	17	8	25
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others													
Total (b)	1	5	2	7	3	0	3	9	6	15	17	8	25
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management	1	8	16	24	0	1	1	0	0	0	8	17	25
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)	1	8	16	24	0	1	1	0	0	0	8	17	25
Total(a-g)		16	32	48	0	2	2	0	0	0	16	34	50
III. Soil Health and Fertility Management													
Soil fertility management	02	10	2	12	20	23	43	0	0	0	30	25	55
Integrated water													

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													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops	01	10	19	29	0	0	0	0	0	0	10	19	29
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
others	01	0	0	0	0	0	0	16	9	25	16	9	25
Total	4	20	21	41	20	23	43	16	9	25	56	53	109
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	01	0	0	0	0	25	25	0	0	0	0	25	25
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet	01	0	0	0	0	0	0	0	25	25	0	25	25
Minimization of nutrient loss in processing													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition													
Women	01	0	0	0	0	25	25	0	0	0	0	25	25

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
empowerment(Rearing of Poultry bird in backyard)													
Location specific drudgery reduction technologies(Suitable maize Sheller for drudgery reduction of farm women)	01	0	15	15	0	10	10	0	0	0	0	25	25
Rural Crafts													
Women and child care													
Others													
Cultivation of bio-fortified sweet potato for nutritional security of farm women	01	0	25	25	0	0	0	0	0	0	0	25	25
Scientific method of vermicomposting from spent mushroom substrates	01	0	25	25	0	0	0	0	0	0	0	25	25
Total	**07**	**0**	**65**	**65**	**0**	**85**	**85**	**0**	**25**	**25**	**0**	**175**	**175**
VI. Agril. Engineering													
Farm machinery & its maintenance	01	20	5	25	2	3	5	0	0	0	20	5	25
Installation and maintenance of micro irrigation systems	01	18	7	25	6	2	8	0	0	0	18	7	25
Use of Plastics in farming practices	01	12	13	25	4	3	7	0	0	0	12	13	25
Production of small tools and implements	01	14	11	25	3	2	5	0	0	0	14	11	25
Repair and maintenance of farm machinery and implements	01	12	13	25	2	1	3	0	0	0	12	13	25
Small scale processing and value addition	01	16	9	25	1	1	2	0	0	0	16	9	25
Post Harvest Technology	01	17	8	25	0	1	1	0	0	0	17	8	25
Others	01	11	14	25	2	1	3	0	0	0	11	14	25
Total	08	120	80	200	20	14	34	0	0	0	120	80	200
VII. Plant Protection													
Integrated Pest Management	4	52	46	98	1	1	2	0	0	0	53	47	100
Integrated Disease Management	4	88	12	100	0	0	0	0	0	0	88	12	100
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total	8	140	58	198	1	1	2	0	0	0	141	59	200
VIII. Fisheries													

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
Integrated fish farming	1	12	13	25	7	9	16	0	0	0	12	13	25
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture	1	15	10	25	6	3	9	0	0	0	15	10	25
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total	**2**	**27**	**23**	**50**	**13**	**12**	**25**	**0**	**0**	**0**	**27**	**23**	**50**
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													

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
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others	02	23	8	31	12	7	19	0	0	0	35	15	50
Total	02	23	8	31	12	7	19	0	0	0	35	15	50
XI. Agro forestry	1	8	16	24	0	1	1	0	0	0	8	17	25
Production technologies	2	31	17	48	0	0	0	2	0	2	33	17	50
Nursery management													
Integrated Farming Systems													
Others (value addition)	1	10	15	25	0	0	0	0	0	0	10	15	25
Agroforestry management	3	30	18	48	1	0	1	10	16	26	41	34	75
Total	6	71	50	121	1	0	1	12	16	28	84	66	175
XII. Others (Pl. Specify)													
GRAND TOTAL	**37**	**364**	**302**	**666**	**52**	**135**	**187**	**60**	**56**	**116**	**456**	**479**	**935**

E) RURAL YOUTH (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													
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming													
Seed production													
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping													
Sericulture													
Repair and maintenance of farm machinery and implements													

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
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others													
Total													

F) Extension Personnel (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													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic													

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
inputs													
Care and maintenance of farm machinery and implements	01	12	8	20	3	2	5	0	0	0	12	8	20
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	01	15	3	18	2	0	2	1	1	2	18	4	22
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other(Scientific way of composite fish culture)													
Total	02	27	11	31	5	2	7	1	1	2	30	12	42

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	01	3	0	3	0	0	0	23	0	23	26	0	26
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient													

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													
Production of organic inputs													
Others													
Total	01	3	0	3	0	0	0	23	0	23	26	0	26
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops	01	5	4	9	7	9	16	0	0	0	12	13	25
Off-season vegetables													
Nursery raising													
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)	01	5	4	9	7	9	16	0	0	0	12	13	25
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards	1	5	2	7	3	0	3	9	6	15	17	8	25
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others													
Total (b)	1	5	2	7	3	0	3	9	6	15	17	8	25
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													

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
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management	02	10	2	12	20	23	43	0	0	0	30	25	55
Integrated water management													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops	01	10	19	29	0	0	0	0	0	0	10	19	29
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
others	01	0	0	0	0	0	0	16	9	25	16	9	25
Total	4	20	21	41	20	23	43	16	9	25	56	53	109
IV. Livestock Production													

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
and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	01	0	0	0	0	25	25	0	0	0	0	25	25
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet(Preparation of Ragi malt powder)	01	0	0	0	0	0	0	0	25	25	0	25	25
Minimization of nutrient loss in processing													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition													
Women empowerment (Paddy straw mushroom cultivation using spawn of different age)	01	0	22	22	0	03	03	0	0	0	0	25	25
Women empowerment (Scientific technique of marigold cultivation)	01	0	0	0	0	25	25	0	0	0	0	25	25
Women empowerment (Rearing of Poultry bird in backyard)	01	0	0	0	0	25	25	0	0	0	0	25	25
Location specific drudgery reduction technologies (Suitable maize Sheller for drudgery reduction of farm women)	01	0	15	15	0	10	10	0	0	0	0	25	25

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Rural Crafts													
Women and child care													
Others													
Cultivation of bio-fortified sweet potato for nutritional security of farm women	01	0	25	25	0	0	0	0	0	0	0	25	25
Scientific method of vermicomposting from spent mushroom substrates	01	0	25	25	0	0	0	0	0	0	0	25	25
Total	**08**	**0**	**87**	**87**	**0**	**88**	**88**	**0**	**25**	**25**	**0**	**200**	**200**
VI. Agril. Engineering													
Farm machinery & its maintenance	01	20	5	25	2	3	5	0	0	0	20	5	25
Installation and maintenance of micro irrigation systems	01	18	7	25	6	2	8	0	0	0	18	7	25
Use of Plastics in farming practices	01	12	13	25	4	3	7	0	0	0	12	13	25
Production of small tools and implements	01	14	11	25	3	2	5	0	0	0	14	11	25
Repair and maintenance of farm machinery and implements	01	12	13	25	2	1	3	0	0	0	12	13	25
Small scale processing and value addition	01	16	9	25	1	1	2	0	0	0	16	9	25
Post Harvest Technology	01	17	8	25	0	1	1	0	0	0	17	8	25
Others	01	11	14	25	2	1	3	0	0	0	11	14	25
Total	08	120	80	200	20	14	34	0	0	0	120	80	200
VII. Plant Protection													
Integrated Pest Management	4	52	46	98	1	1	2	0	0	0	53	47	100
Integrated Disease Management	4	88	12	100	0	0	0	0	0	0	88	12	100
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total	8	140	58	198	1	1	2	0	0	0	141	59	200
VIII. Fisheries													
Integrated fish farming	1	12	13	25	7	9	16	0	0	0	12	13	25
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture	1	15	10	25	6	3	9	0	0	0	15	10	25
Hatchery management and													

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
culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total	**2**	**27**	**23**	**50**	**13**	**12**	**25**	**0**	**0**	**0**	**27**	**23**	**50**
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of													

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
farmers/youths													
WTO and IPR issues													
Others	02	23	8	31	12	7	19	0	0	0	35	15	50
Total													
XI. Agro forestry	2	31	17	48	0	0	0	2	0	2	33	17	50
Production technologies													
Nursery management													
Integrated Farming Systems	1	10	15	25	0	0	0	0	0	0	10	15	25
Others	3	30	18	48	1	0	1	10	16	26	41	34	75
Total	6	71	50	121	1	0	1	12	16	28	84	66	150
XII. Others (Pl. Specify)													
GRAND TOTAL	**37**	**364**	**302**	**666**	**52**	**135**	**187**	**60**	**56**	**116**	**456**	**479**	**935**

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	01	13	7	20	6	0	0	0	0	0	13	7	20
Training and pruning of orchards													
Protected cultivation of vegetable crops	02	27	12	39	1	0	1	0	0	0	28	12	40
Commercial fruit production	02	15	2	17	2	1	3	0	0	0	17	3	20
Integrated farming	01	13	07	20	0	0	0	0	0	0	13	07	20
Seed production													
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping	1	13	5	19	1	0	1	0	0	0	15	5	20
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition	01	0	15	15	0	05	05	0	0	0	0	20	20
Small scale processing	01	5	15	20	3	2	5	0	0	0	5	15	20
Post Harvest Technology	01	0	17	17	0	03	03	0	0	0	0	20	20
Tailoring and Stitching													
Rural Crafts													
Production of quality animal													

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
products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others((Nursery management of Aromatic plants)	2	7	13	20	1	1	2	0	0	0	7	13	20
Total	**12**	**93**	**93**	**187**	**14**	**12**	**20**	**0**	**0**	**0**	**98**	**102**	**200**

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													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm machinery and implements	01	12	8	20	3	2	5	0	0	0	12	8	20
Gender mainstreaming through SHGs													
Formation and Management of													

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
SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing	01	0	20	20	0	0	0	0	0	0	0	20	20
Group Dynamics and farmers organization	02	33	5	38	2	0	2	1	1	2	36	6	42
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other(Scientific way of composite fish culture)	01	16	04	20	7	3	10	0	0	0	16	04	20
Total	**05**	**61**	**37**	**98**	**12**	**5**	**17**	**1**	**1**	**2**	**64**	**38**	**102**

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
Plant Protection	F/FW	Integrated Management of stem borer and blast disease in Paddy	1	off	10	15	25	1	0	1
		Integrated Management of leaf curl disease in chilli	1	off	25	0	25	0	0	0
		Integrated management of bacterial wilt in solanaceous crop	1	off	15	10	25	1	0	1
		Integrated pest management of BPH in paddy	1	off	16	9	25	0	0	0
		Integrated management of sucking pest in vegetables	1	off	25	0	25	2	0	2
		Integrated disease management in	1	off	7	18	25	0	1	1

		green gram								
		Integrated management of fall Army Worm in sweetcorn	1	off	25	0	25	0	0	0
		Integrated management of fruitfly in vegetable crop	1	off	24	1	25	0	0	0
		Integrated Management of leaf curl disease in chilli	1	off	22	3	25	22	3	25
	RY	Integrated pest disease management in protected cultivation	02	On	12	8	20	2	1	3
		Integrated disease management in protected cultivation	02	On	13	7	20			
Ag.Engg	F/FW	Preparation of quality sugarcane Jaggery.	01	Off	20	5	25	2	3	5
		Use of tractor drawn seed drill for DSR	01	Off	18	7	25	6	2	8
		Mechanical Aeration System in farm pond	01	Off	12	13	25	4	3	7
		Mechanized threshing of pulses	01	Off	14	11	25	3	2	5
		Use of Tractor Operated Seed drill for sowing of greengram	01	Off	12	13	25	2	1	3
		Use of Ragi Thresher cum Pearler for Ragi processing	01	Off	16	9	25	1	1	2
		Use of small tools and implements for vegetable crops	01	Off	17	8	25	0	1	1
		Use of plastics in farming practices	01	Off	11	14	24	2	1	3
	RY	Small scale processing and value addition	02	On	5	15	20	3	2	5
		Hi-tech Horticulture	02	On	13	7	20	6	3	9
	IS	Care and maintenance of farm machinery and implements	02	Off	12	8	20	3	2	5

Agril Extn	F/FW	Application of bio fertilizer for better nodulation in pulse crops	01	Off	21	9	30	11	8	19
		Different method of seed treatment for enhancing pulse productivity	01	Off	9	16	25	9	15	24
		Production of high value crops in underutilized wasteland for higher income generation.	01	Off	12	13	25	7	9	16
		Weed management practices in kharif pulses.	01	Off	26	0	26	23	0	23
		Methods of agriculture practices to conserve soil moisture.	01	Off	16	9	25	16	9	25
		Application of micronutrients in oilseed crops	01	Off	10	19	29	0	0	0
		Use and efficiency of smart agriculture for problem solving	01	Off	16	9	25	12	7	19
		Climate resilient technologies for sustainable agriculture	01	Off	19	6	25	0	0	0
	RY	Integrated farming system model for sustainable livelihood	01	On	17	3	20	2	1	3
	IS	Importance of Farm Field School (FFS) for technology upscaling	01	Off	18	4	22	3	1	4
		Business plan development of FPOs for financial advance.	02	On	18	2	20	0	0	0
Home Sc	F/FW	Women empowerment(Padd y straw mushroom cultivation using spawn of different age)	01	On	0	25	25	0	03	03
		Household food security by kitchen gardening and	01	Off	0	25	25	0	25	25

		nutrition gardening								
		Designing and development for high nutrient efficiency diet(Preparation of Ragi malt powder)	01	Off	0	25	25	0	25	25
		Women empowerment(Scientific technique of marigold cultivation)	01	Off	0	25	25	0	25	25
		Women empowerment(Rearing of Poultry bird in backyard)	01	Off	0	25	25	0	25	25
		Location specific drudgery reduction technologies(Suitable maize Sheller for drudgery reduction of farm women)	01	Off	0	25	25	0	10	10
		Cultivation of bio-fortified sweet potato for nutritional security of farm women	01	Off	0	25	25	0	0	0
		Scientific method of vermicomposting from spent mushroom substrates	01	Off	0	25	25	0	0	0
	RY	Value addition of fruits & vegetables	01	On	0	20	20	0	05	05
		Value addition of mushroom	01	On	0	20	20	0	03	03
	IS	Low cost and nutrient efficient diet designing (Enhancement of Ragi to combat malnutrition)	01	On	0	20	20	0	0	0
Forestry	F/FW	Preparation and management of Horti-silvi Agroforestry model	01	Off	16	9	25	0	0	0
		Propagation techniques of important forest trees	01	Off	25	0	25	2	0	2
		Management of	01	Off	7	18	25	0	1	1

		aromatic plants in the nursery								
		Silvicultural operations in fruit based Agroforestry model	01	Off	12	13	25	7	9	16
		Management of bund plantation of tree species	01	Off	26	0	26	23	0	23
		Management of bamboo harvesting in the forest	01	Off	16	9	25	16	9	25
		Plantation of tree crops and their interaction studies	01	Off	10	19	29	0	0	0
		Agroforestry practices for soil conservation	01	Off	25	0	25	0	0	0
		Societal importance of NTFPs and their applications	01	Off	24	1	25	0	0	0
		Importance of cash crops in agroforestry	01	Off	22	3	25	22	3	25
		Commercial medicinal plants for income generation	01	Off	11	14	25	16	9	25
		Cultivation of spices in tree plantation	01	Off	10	15	25	7	9	16
	RY	Identification of different aromatic plants and their management	02	On	13	07	20	5	4	9
		Management of cultivation practices of different agroforestry models	02	On	12	08	20	3	2	5
Fishery Sc	F/FW	Integrated fish farming	01	Off	12	13	25	7	9	16
		Fish diseases and its management	01	Off	15	10	25	6	3	9
	RY	Pond based IFS	02	On	13	07	20	8	2	10
	IS	Scientific ways of Composite fish culture	02	On	16	04	20	7	3	10

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	
Apiculture	Bee keeping	Scientific Bee keeping	05	15	5	20		8	2	0
Entrepreneurship development	Income generation	Production of off-season vegetable seedling in protected cultivation	05	15	5	20	Enterprenure	12	2	3
Poultry rearing	Sustainable income from backyard poultry venture	Small scale poultry rearing unit for income generation.	05	06	14	20	Small scale unit (50 birds to 500 birds)	12	12	--
Mush room	Income Generation	Scientific method of mushroom spawn production	05	02	18	20	Mush room spawn production unit	02	01	10
Fish seed production	Income Generation	Fish seed Production	05	16	4	20	Fish seed grower	20	01	05

*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													
Commercial fruit production													
Commercial vegetable production	05	15	5	20	0	0	0	0	0	0	15	5	20
Integrated crop management													
Organic farming													
Other(Apiculture)	05	15	05	20	0	0	0	0	0	0	15	5	20
Total	**10**	**30**	**10**	**40**	**0**	**0**	**0**	**0**	**0**	**0**	**30**	**10**	**40**
Post harvest technology and value addition													
Value addition													
Other													
Total													
Livestock and fisheries													
Dairy farming													
Composite fish culture													
Sheep and goat rearing													
Piggery													
Poultry farming	05	6	13	19	0	0	0	0	1	1	6	14	20
Other(Fish seed production)	05	02	16	18	0	02	02	0	0	0	02	18	20
Total	**10**	**8**	**29**	**37**	**0**	**2**	**2**	**0**	**1**	**1**	**8**	**32**	**40**
Income generation activities													
Vermicomposting													
Production of bioagents, biopesticides,													
biofertilizers etc.													

Repair and maintenance of farm machinery & imlements													
Rural Crafts													
Seed production													
Sericulture													
Mushroom cultivation	05	02	16	18	0	02	02	0	0	0	02	18	20
Nursery, grafting etc.													
Tailoring, stitching, embroidery, dying etc.													
Agril. Para-workers, para-vet training													
Other													
Total	**05**	**02**	**16**	**18**	**0**	**02**	**02**	**0**	**0**	**0**	**02**	**18**	**20**
Agricultural Extension													
Capacity building and group dynamics													
Other													
Total													
Grand Total	**25**	**40**	**55**	**95**	**0**	**4**	**4**	**0**	**1**	**1**	**40**	**60**	**100**

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	District level skill training on bio-fertilizer & organic inputs production	Production of Organic inputs	--	03	PF	03	20	Deptt. Of Agriculture & Farmers' Empowerment, Nayagarh

2	Farmers Scientist Interaction under REWARD project	Watershed Development	1	12	PF	12	600	Dept. of Watershed and Soil Conservation, GoO, Nayagarh

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	03	11	0	11	5	0	5	4	0	4	20	0	20
Production of Inputs at site													
Methods of protective cultivation													
Other													
Total													
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													
Total													
Home Science													
Household nutritional security													
Economic empowerment of women													
Drudgery reduction of women													
Other													
Total													
Agricultural Extension													
Capacity Building and Group Dynamics													
Other(Farmers Scientist interaction cum training under REWARD project)	12	220	119	339	75	246	0	0	0	0	295	365	600
Total													
Grand Total	**15**	**231**	**119**	**350**	**80**	**246**	**5**	**4**	**0**	**4**	**315**	**365**	**620**

Good quality photographs of training activity:

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	75	25	100	10	3	4	7	78	29	336
Kisan Mela	5	575	425	1000	20	5	3	8	578	428	3047
Kisan Ghosthi	0	0	0	0	-	0	0	0	0	0	0
Exhibition	2	68	32	100	10	100	50	150	168	82	762
Film Show	0	0	0	0	0	0	0	0	0	0	0
Method Demonstrations	10	188	12	200	10	10	12	22	198	24	222
Farmers Seminar	1	35	15	50	25	8	15	23	43	30	75
Workshop	0	0	0	0	0	0	0	0	0	0	0
Group meetings	5	75	25	100	10	17	8	25	92	33	125
Lectures delivered as resource persons	210	305	220	520	15	30	22	55	335	242	577
Advisory Services											
Scientific visit to farmers field	238	380	370	750	21	45	10	55	425	380	76319
Farmers visit to KVK	14	4250	2989	7239	31	3	6	653	303	956	2674
Diagnostic visits	120	5050	3492	8542	36	12	8	20	5062	3500	16444
Exposure visits	12	175	75	250	12	15	18	33	190	93	25842
Ex-trainees Sammelan	0	0	0	0	0	0	0	0	0	0	873
Soil health Camp	0	0	0	0	0	0	0	0	0	0	0
Animal Health Camp	0	0	0	0	0	4	7	23	24	47	0
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0	105
Soil test campaigns	1	15	10	25	10	10	11	21	26	31	0
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0	160

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 (specify) (i) Celebration of 74th Republic day at KVK Nayagarh on dt.26.01.2023 (ii) Celebration of Akshya Trutiya at KVK Nayagarh campus on dt. 23.04.2023 (iii) Celebration of World Environment Day at KVK Campus on dt.05.06.2023 (iv) Celebration of 95th Foundation Day & Technology Day of KVK at KVK Nayagarn on dtate.18.07.2023. (v) Celebration of 77th Independence Day at KVK Nayagarn on dtate.15.08.2023. (vi) Celebration of 62th Foundation Day of OUAT & FPO Conclave at KVK Ngr on dt24.08.2023(Live streaming) (vii) Celebration of World Food Day 2023 on	10	180	280	460	35%	31	35	66	211	315	526

date.16.10.2023 at village Laxmiprasad of Bhapur block. (viii) Celebrated Integrity Pledge for Vigilance Awareness Week 2023' in KVK Campus on dt.30.10.2023. (ix) Celebration of Women in Agriculture Day 2023 on date.04.12.2023 at village Ratanpur of Khandapada block. (x) Celebration of National Mushroom Day 2023 on date.23.12.2023 at village Sikharpur of Odgaon block											
Sankalp Se Siddhi											
Swatchta Hi Sewa											
Mahila Kisan Divas	01	0	50	50	28	3	1	4	3	51	54
Any Other (Specify) (i) Awareness programme on Nutritional Gardening	01	0	40	40	7.5	0	1	1	0	41	41
(ii) VBAS(Bharat Vikas Sankalp Abhiyan)	02	520	320	840	43%	22	18	40	542	338	880

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	10

Radio talks	04
TV talks	00
Popular articles	04
Extension Literature	02
Other, if any	02

Good quality photographs of Extension activity:

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	Kala Champa	30.0	106860	2	1	0	0	15	2	17	3
Ragi	Arjun	0.082	5043	25	5	25	5	40	0	90	10
Grand Total											

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	Dhawal	1027	2567.5	39	48	117	204	39	48	117	204
Cabbage	Green cabbage	424	1060	12	18	105	135	12	18	105	135
Tomato	Arka Rashkhyak	19483	48707.5	25	28	136	189	25	28	136	189

Brinjal	Swarna shyamali	15816	39540	4	7	13	24	4	7	13	24
Chilli	VNR 108	2780	6950	19	25	119	163	19	25	119	163
Onion			0								
Others	Ceracole	11460	28650	17	25	55	97	17	25	55	97
Fruits											
Mango											
Guava											
Lime											
Papaya	Red lady	1250	31250	12	18	105	135	12	18	105	135
Banana											
Others	ODC 3	600	11250	25	28	136	189	25	28	136	189
Ornamental plants											
Medicinal and Aromatic											
Plantation											
Spices											
Turmeric											
Tuber											
Elephant yams											
Fodder crop saplings											
Forest Species											
Others, pl. specify											
Total		**52840**	**169975**	**153**	**197**	**786**	**1136**	**153**	**197**	**786**	**1136**

Good quality photographs of planting materials:

Production of Bio-Products

Name of product	Quantity Kg	Value (Rs.)	No. of Farmers benefitted							
			SC		ST		Other		Total	
			M	F	M	F	M	F	M	F
Bio-fertilizers	950	19000	17	25	55	97	17	25	55	97
Bio-pesticide										
Bio-fungicide										
Bio-agents	5	2500	10	2	1	3	12	7	23	12
Others, please specify										
Total	**955**	**21500**	**27**	**27**	**56**	**100**	**29**	**32**	**78**	**109**

Good quality photographs of bio-products:

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											
Duals (broiler and layer)	Banaraja	385	26950	6	3	0	3	10	0	16	6
	Aseel	1141	79870	10	2	4	3	8	0	22	5
	Palishree	533	37310	2	3	3	0	5	0	10	3
	Kadaknath	180	18000	0	0	0	0	9	0	9	6
	Kaveri	460	32200	5	2	2	2	6	0	13	3
	Rainbow Rooster	790	55300	6	8	3	0	4	0	13	8
Others (Pl. specify)											
Piggery											
Piglet											
Hog											
Others (Pl. specify)											
Fisheries											
Indian carp											
Exotic carp											
Mixed carp											
Fish fingerlings	Amur carp, Grass carp, Jayanti Rohu	35000	70000	25	-	50	-	100	15	175	15
Spawn											
Others (Pl. specify)											
Grand Total		**38489**	**319630**	**54**	**18**	**62**	**8**	**142**	**15**	**258**	**46**

Good quality photographs of livestock and fisheries:

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

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				
Booklets	Mushroom production for ARYA trainees	Dr.Gitanjali Subudhi, Scientist(Home Sc.), KVK Nayagarh	20	20
	Vegetable Nursery Raising	Dr. A.K Swain Er. (Mrs.) S. Dwivedy, Mr P.K prusti,A.	20	20

		Samantray		
	Nursery raising under ARYA project	Dr. A.K Swain Er. (Mrs.) S. Dwivedy, A. Samantray	20	20
	Fish Fingerlings production under ARYA project	Dr. A.K Swain Er. (Mrs.) S. Dwivedy, A. Samantray	20	20
	Training Manual on ARYA Poultry Enterprise.	Anil Kumar Swain, Madhumita Jena & Ansuman Samantaray	20	20
Bulletins				
News letter	Sabuja Swarna : Quarterly Newsletter	Scientific/ Technical team of KVK, Nayagarh	Edition:1 & 2	Farm households District departments
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature				
Technical reports				
Electronic Publication (CD/DVD etc.)	Short Technology Video	KVK, Nayagarh	05 no.	Farm households District departments
	Fish fingerlings production, backyard poultry rearing, mushroom production	Dr. A.K Swain Mrs. G. Subudhi Dr. (Ms.) M.Jena Er. (Mrs.) S. Dwivedy		
Technical reports	Annual progress Report & Annual Action Plan	All staff	5	5

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.	Comb Honey production technology in Apis cerena indica	Comb Honey production technology in Apis cerena indica	Pramod Kumar Prusti,Scientist (Plant Protection)	02.12.2023	ICAR-ESSIn ncollaboration with AICRP on Honey Bees and pollinators,OUAT and Bee Trust of Odisha (BTO)
2.	Advance	Advance	Pramod Kumar	26-27	DEE, OUAT,BBSR

	technologies in Apiculture	technologies in Apiculture	Prusti,Scientist (Plant Protection)	July,2023	and AICRP on Honeybees and Pollinators and ICAR-ESS OUAT
3.	State level seminar	Scientific Honeybee keeping	Pramod Kumar Prusti,Scientist (Plant Protection)	16-17 March March,2024	National Institute of MSME,Hyderabad and OUAT,Bhubaneswar
4.	Exposure visit	Exposure visit	Pramod Kumar Prusti,Scientist (Plant Protection)	27- 28, March,2024	Kvk,Nimpith,West Bengal
5	Master trainers' program	Fruits and Vegetables Processing	Er Suchismita Dwivedy Scientist (Ag.Engg)	31.07.2023 to 04.08.2023	NIFTEM-T
6	National workshop	Recent Advances in Agricultural Engg and Technilogy	Er Suchismita Dwivedy Scientist (Ag.Engg)	01.09.2023-21.09.2023	BHU, Varnasi & NADCL, J&K
7	Refresher Training programme	Entrepreneurship Development programme for agriculture & allied sectors	Er Suchismita Dwivedy Scientist (Ag.Engg)	27-28 th March, 2023	DEE, OUAT, BBSR
8	Refresher Training cum Exposure Visit:	Integrated Farming System (IFS) for sustainable agriculture and livelihood Security.	Dr. Madhumita Jena, Scientist (Agril. Extension)	27th & 28th March, 2023	DEE, OUAT, BBSR
9	Refresher Training programme	Entrepreneurship Development programme for agriculture & allied sectors	Dr. Madhumita Jena, Scientist (Agril. Extension)	27th & 28th March, 2024	DEE, OUAT, BBSR
10	Orientation workshop	'Orientation workshop on Livelihoods'	Dr.Gitanjali Subudhi, Scientist(Home Sc.), KVK Nayagarh	dt.08.02.2023 to dt.09.02.2023	NABARD, Nayagarh & OLM Nayagarh
11	Training programme	'Recent Advances in Mushroom Production Technology' to be held at CTMRT, OUAT BBSR	Dr.Gitanjali Subudhi, Scientist(Home Sc.), KVK Nayagarh	10-11, July, 2023	CTMRT & DEE, OUAT, BBSR.
12	Workshop	'Millets Testing Events' on the occasion of International	Dr.Gitanjali Subudhi, Scientist(Home Sc.), KVK Nayagarh	17.08.2023	Collectorate, Nayagarh

		Year of Millets held at Collectorate, Nayagarh			
13	OUAT Mushroom Conclave 2023	'OUAT Mushroom Conclave' held at Biju Pattnaik Hall of OUAT Bhubaneswar.	Dr.Gitanjali Subudhi, Scientist(Home Sc.), KVK Nayagarh	07.10.2023	OUAT Bhubaneswar.
14	State Level Conference	12th Annual State Level Conference of Odisha Mushroom Growers' Federation at Bhanja Kala Mandap, Bhubaneswar.	Dr.Gitanjali Subudhi, Scientist(Home Sc.), KVK Nayagarh	28.11.2023	Odisha Mushroom Growers' Federation
15	Training to the Govt. Officials	Training of Trainers on Agroforestry	Dr. Gyanaranjan Sahoo, Scientist (Forestry)	06.12.23-09.12.23	Soil conservation Department, Govt. of Odisha in collaboration with CAFRI, Jhansi

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

Name of farmer	Sj. Akhaya Mallick
Address	Village: Badabara, Grampanchayat: Manitri Block: Bhapur, District: Nayagarh
Contact details (Phone, mobile, email Id)	9938368330
Landholding (in ha.)	2.0
Name and description of the farm/ enterprise	**Integrated crop Management practice in Chick pea**. Seed treatment with Bio -fungicide: Mixing of *Trichoderma Viride*1% WP @ 10gm per kg of seed to minimize incidence of wilt. **Nutrient management**: Foliar application of water soluble NPK fertilizer (19:19:19) @ 5gm per liter of water at pre-flowering and pod development stage. **Disease management**: Spraying of validamycin3%L@ 2ml per liter of water to control incidence of collar rot at seedling stage. Pest management: Application of Profenophos+ cypermethrin @ 2ml per liter of water during vegetative stage to control semilooper infestation. **Mechanical method to control pest**: Installation of pheromone trap @20 no per ha for monitoring and mass

	trapping of male pod borer (*Helicoverpa armigera*) infestation
Economic impact	The demonstration yield was increased by 33.3% against the local yield was 7.5q/ha. The net income was Rs. 29200 per ha.
Social impact	The recommended variety and management practices wilt and collar rot contributed to optimum crop stand. Foliar application of NPK enhanced flowering and pod development.
Environmental impact	Mechanical and cultural management practices minimized the application of chemical pesticides.
Horizontal/ Vertical spread	The recommended variety was horizontally spread near about 80ha.
Good quality photographs (2-3)	

Name of farmer	Mamata Sahoo
Address	Village: Kosakata, Block: Nuagaon, Dist.: Nayagarh.
Contact details (Phone, mobile, email Id)	Mobile No.9668811282
Landholding (in ha.)	Area under Nutri-garden (acre):0.025 ha (100 Sq. Mt.)
Name and description of the farm/ enterprise	Nutritional Gardening and Apiculture
Technological Intervention and KVK Support	1.Training on 'Household food security by Kitchen Gardening & Nutritional Gardening' 2. Demonstration on Nutri-Kitchen Garden for Farm Women with input support 3. Demonstration on Scientific Apiculture Cultivation. 4. Awareness programme on Nutritional Gardening.
Economic impact	She earned around Rs.15000/- from her Nutritional Garden; Apiculture Unit and service as Krishi Mitra.
Social impact	She is a member of Women Self Help Group Member & also works as Krishi Mitra.
Environmental impact	She has developed her Nutritional Garden with the use of organic manures (Handi Khata, Jibamruta, etc.) without any use of chemical fertilizers & pesticides. As she has established an Apiculture unit at one end of the Nutritional Garden, it enhances pollination of different crops in her Nutritional Garden as well as different crops of her locality-hence increasing the production & productivity of those crops.
Horizontal/ Vertical spread	As she is an active Krishi Mitra, her activities have been spread to 17 number of farm families and 5 WSHGs in her locality.

Good quality photographs (2-3)		
	Brinjal plot in Nutritional garden	**Apiculture unit**

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	Paddy	Use of rotten snail for gandhibhog	Less costly eco-friendly
2	Paddy	Alley cropping for BPH management	Low cost technology
3	Greengram	Use of colourful pots for pestmanagement	Low cost technology

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	Vegetable crop	6	100q	5	Y

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

Sl. No.	Brief details of the tool/ methodology	Purpose for which the tool was followed

	followed	
1	Focused group discussion	To find out location specific problems/ emerging issues encountered by the farmers.
2	Checklist	To find out the present condition/ status of the villages in terms of agricultural development
3	Participatory rural appraisal (PRA)	A series of mapping and methods to draw a clearcut picture of Resource inventory and possible interventions for holistic development.
4	Problem Tree & Root cause Analysis	A participatory tool of mapping out main problems, along with their causes and effects and strategies to identify achievable goals.

3.11. a.Details of equipment available in Soil and Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
1	Mridaparikshak (Soil testing kit)	3
2	Flame photometer	1
3	Visible Spectrophotometer	1
4	Double distillation unit with distillation apparatus	1
5	Rotary Shaker	1
6	N-analyzer	1
7	Soil moisture meter	1
8	PH, EC, TDS combined meter	1
9	Magnetic stirrer with hot plate	1
10	Precision analytical balance	1
11	Electronic micro-processor with scrubber	1
12	Hydrometer Boycos (Hot plate rectangular)	1
13	Soil sample collection Agar	1
14	Digital Balance	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			
	10	10	50	12	-

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.	World Soil Day	50	-	-	10	10

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
Farmers-scientists interaction	2	200	Crop Realated
Exhibition	1	100	Crop and Allied sector
Distribution of Literature (No.)	1	100	Vegetable Nursery
Distribution of Planting materials (No.)	2	565	Papaya, chilly, tomato, cabbage
Bio Product distribution (Kg)	1	50	Vermicompst

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

No of student trained	No of days stayed
30 no	No

ARS trainees trained	No of days stayed
06 nos of ARS Probationers	19 days

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
16.01.2023	Dr M.P Nayak, JDE, DEE, OUAT	Review of KVK activities and attended SAC Meeting
20.01.2023	Pof Bansidhar Pradhan, HOD, Dept. of Genetics and Plant	Visit to KVK

	breeding, Dr. A Khuntia, JDE, DEE, OUAT, Bhubaneswar	
09.02.2023	Sj. R.Sahoo, Collector & DM	Visit to KVK
21.02.2023	Prof B.K Mohanty, Prof. A. Kanungo, Dept of Extension, SOA university	Visit to KVK
05.08.2023	Prof H.K Sahoo, DDE, DEE, OUAT	District Level Workshop of Resilience Project
08.08.2023	Prof. P.J Mishra, Dean, DEE, OUAT, BBSR & Resilience Project Team	Resilience Workshop
22.11.2023	Prof S.S Nanda, Ex-Dean, CoF	Visit to KVK
14.12.2023	Dr. sarbani Das, JDE(Info), DEE, OUAT	Review of KVK activities and attended SAC Meeting

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)
Installation of Pheromone trap for mass trapping of male pod borer(*Helicoverpa armigera*) infestation in chickpea	23	33	19500	25750
Fish Fingerlings Production	20	38%	102600	586721
Backyard poultry rearing	20	25%	25000	225000
Mushroom Production	20	48%	12000	480000

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread
Installation of yellow sticky trap for management of whitefly in Greengram.	500 ha
Semi-scavanging dual purpose backyard poultry birds	200 households
Bacterial wilt resistant brinjal variety Swarna shyamali	38%
Triple resistant Tomato variety Arka rshakhyak	49%

Give information in the same format as given below

Name of farmer	**Rabi Narayan Mohanty**
Address	Village : Rampada, Panchayat:Badasara Block: Bhapur
Contact details (Phone, mobile, email Id)	8249055695
Landholding (in ha.)	2ha
Name and description of the farm/ enterprise	Poultry Rearing Rabi Narayan Mohanty an educated young man after completing his intermediate was associated with his father farming activities. After having enough experience decided to take up an enterprise of poultry farming. Rabi's elder brother was much acquainted with KVK activities and through him he enrolled in ARYA poultry enterprise. Before joining in the project, he had a small unit of 100 capacity birds and mediocre experience of poultry management. After getting ARYA training ✓ Different aspects of poultry rearing practices ✓ Exposure to successful poultry units ✓ Project formulation for bankable models and financial linkage etc. ✓ Subsidized schemes & programmes With the assistance veterinary department, he got subsidized scheme of 500 capacity poultry shed which helped him to recast his venture in a large scale.
Economic impact	Annual Turnover is 8.16lakh (which is 261 % increase over last few years) 4200 no of birds per year (1200 Coloured birds & 3000 Broiler birds)
Social impact	Created a positive impact on the younger generation by engaging in income generating activities.
Environmental impact	Poultry waste is utilized for preparation of organic manures.
Horizontal/ Vertical spread	Poultry enterprise is preferred by all the segment of the society due to profitability and higher demand.
Good quality photographs (2-3)	

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.	Installation of Yellow Sticky Trap in Greengram	Control the infestation at early stage of the crop which directly have a positive impact on production.	Productivity increased by 12.3%
2	Demonstration on preparation of	Good quality jaggery production	Good market Value

	sugarcane jaggery		
3	Demonstration of adoption rate of Bio-fortified Sweet potato varieties for nutritional security of farm family	Good income generating activity for rural farm women	Good market value
4	Demonstration on poultry bird Pallishree in backyard rearing	The new breed seeks attention of farmers due to fast body growth, low cholesterol content, high iron content and good market value.	Body weight in 6 month is 1.65kg
5	Demonstration on Polyculture of Prawn with carp	Good income generating activity for fish farmers	Good market value

4.4. Details of innovations recorded by the KVK

Thematic area	Farm Mechanization
Name of the Innovation	Manual Incubation Chamber
Details of Innovator	The innovator is basically a progressive innovative farmer of the district. He owns about7 ha of cultivatable land. He is an IFS framer and having poultry bird of 500 capacity in backyard. He developed an Egg incubation chamber of 50 eggs to incubate.
Back ground of innovation	He got the technical support from KVK scientist as well as the line department to develop the machine .
Technology details	Hatching capacity-50eggs per batch and it is electric operated.
Practical utility of innovation	Hatching of Egss in low cost technology

Thematic area	Farm Mechanization
Name of the Innovation	Row maker cum ridger
Details of Innovator	The innovator is basically a progressive farmer of the district. He owns about 5ha of cultivatable land. He cultivates paddy, pulses and vegetables.
Back ground of innovation	He got the technical support from KVK scientist as well as the line department to modify the thresher to use for multipurpose like winnowing. The machine is manually operated one.
Technology details	The ridger is an implement can use for making ridges and furrows with spacing od 25-30 cm for vegetable planting.
Practical utility of innovation	The implement saves time as well as labour as compared to manually with less drudgery.

4.5. Details of entrepreneurship development

Name of farmer	Mr Rabindra kumar Sahoo
Age	35yrs
Aadhaar No	552982311942
Address	At- Kaliamba, , Bl- Nuagaon, Dist-Nayagarh
Contact details (Phone, mobile, email Id)	8327707146
Landholding (in ha.)	1.0ha
Education	Intermediate
Family member	4

House hold income (before ARYA)	1.2 lakh/- per annum
Training received from KVK	Yes
ARYA interventions taken	Training, Exposure visit, Start-Up Incentive of Rs. 5,000/-
Present Production	90q/4ha
Marketing linkage developed	Locally sale
Labour involved	Family members are involved
Cost of cultivation	18233/- per month
Average net income after intervention per month	8.2 lakh/- per month
Social and Environmental impact	He is very happy in this enterprise. Engaged 3 persons in his enterprise to support him
Horizontal/Vertical spread	24.1%

Name of farmer	Mr Batakrushna Swain
Age	35yrs
Aadhaar No	339557397131
Address	At- Baunsagada, Bl- Ranapur, Dist-Nayagarh
Contact details (Phone, mobile, email Id)	9178742013
Landholding (in ha.)	1.5ha
Education	Intermediate
Family member	4
House hold income (before ARYA)	0.2 lakh/- per annum
Training received from KVK	Yes
ARYA interventions taken	Training, Exposure visit, Start-Up Incentive of Rs. 5,000/-
Present Production	100000/unit
Marketing linkage developed	Locally sale
Labour involved	Family members are involved
Cost of cultivation	10250/- per month
Average net income after intervention per month	80000/- per month
Social and Environmental impact	He is very happy in this enterprise. Cultivating off season vegetables utilizing his land resources and getting additional income of Rs3.5lakh per annum
Horizontal/Vertical spread	34.1%

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
ICAR-CIFA, BBSR	Exposure visit for Fish production
ICAR-NRRI, Cuttack	Procurement of agro-ecosystem based paddy varieties for popularization
CTMRT-OUAT, BBSR	Exposure visit Mushroom production
ICAR-CARI	Procurement of day poultry chicks
CPDO, GoI	Procurement of day poultry chicks
IPDP, GoO	Procurement of day poultry chicks
CIMMYT	Popularization of climate resilient maize hybrids

IRRI, BBSR	Demonstration of stress tolerant paddy varieties
Odisha Livelihood Mission	FPO Group Formation, Technical support
NFDB, BBSR	Exposure visit, Fish seed
Dept. of Veterinary and Animal Husbandry, GoO	Joint verification of newly established poultry units
Dept. of Horticulture, GoO	Resource person on Mushroom & vegetable cultivation & value addition in different blocks of Nayagarh district Joint physical verification of banana sucker and lemon seedling
Dept. of Fisheries, GoO	Joint field visit for Fish production, Establishment of hatching unit Resource Person for HRD training
Mission Shakti	Training Programme
ATMA, Nayagarh	BGREI Monitoring and Field visit
Dept. of Agriculture, Nayagarh	Creating awareness for BPH control, collaborative celebration of special days, Resource Person for HRD training
Watershed & Soil Conservation	Participated in Exhibition organized by the Watershed Dept.
District Administration, Nayagarh	For taking up initiative measures to control pest &disease incidence
Odisha State Seed Corporation, Nayagarh	Production of foundation & certified seed under instructional farm
All India Radio, Cuttack	Radio talks, Participation in Farm & Home programme
Doordarshan, BBSR	TV talk, SAC meeting
NABARD, Nayagarh	Field visit under different funded project
NGOs	Promotion of organic farming, Exposure visit

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 (Rs.)

(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.)
District level Fram Mechanization Fair	Method Demonstration of various Fram Imlements during the fair	21.02.2023-24.02.2023	Deptt. of Agriculture, Goo	--
OUAT Farmers Fair	Exhibition and Demonstration	27-28.02.2023	OUAT	--
Awareness cum Exhibition under scsp	Demonstration of various agricultural implements	25.03.2023	OUAT	--

Annual General Body (AGM)Meeting of Farmers Producer Organisation.	To create awareness about the importance of FPO in marketing of farm produce.	27.10.2023, Ranpur 20.11.2023, Ranpur	NABARD	--
District level Fram Mechanization Fair	Method Demonstration of various Fram Imlements during the fair	14.11.2023-17.11.2023	Deptt. of Agriculture, Goo	--
OUAT Agri-Edu Fair	Exhibition and Demonstration	20-22.12.2023	OUAT	--

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	2010-11	120	VNR B5, Dhawal, ceracola, Arka rashkhyak, Arka Samrat, VNR 405, Kailash	Brinjal tomato caulifl ower,Marigold, ChilliBrocoli, papaya, drumstick	100000	65250	169000	
2.	Vermic ompost	2010-11	1 unit		Vermic ompost	10.55 q	7820	15825	
3.	Mushroom spawn production	2010-11	50	OSM-11	PSM and Oyester Spawn	8850	58471	132750	
5.	Fish Pond	2016-17	1 acre	Amur, Jva punti, Rohu,Mrigal	Fish fingerlings	50000	35000	70000	
	IFS	2021-22	4000	Pond based					
6.	Shed net house	2022-23	140	Kantei mundi, Swarna	QPM production	100000			

				Aulokik , Shanti					
7 .	Spinego urd/ Pointed gourd	2022 -23	20 00	Swarna Aulokik , Shanti	QPM producti on	1000 00			
	Dragon unit	2022 -23	20 00	-		1000 00			
	Aqua Tech park	2022 -23	I un it	Orname ntal fish	Orname ntal fish				
	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	18.07.2 023	24.12.202 3	1.0	Kala Cha mpa	FS	30. 0	19,000	1,06,8 60	Sample not drawn
Finger Millet	28.01.2 023	10.04.202 3	0.2	Arju n	TL	0.0 82	2500	5043	Seed sold

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.	Vermocompost	950 kg	5000	19000	
2					

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Poultry birds	Banaraja	21 days old chicks	385	15400	26950	
		Aseel		1141	45640	79870	
		Palishree		533	21320	37310	
		Kadaknath		180	8500	18000	

		Kaveri		460	18000	32200	
		Rainbow Rooster		790	31500	55300	
2	Farm Pond	Amur, Jva punti, Rohu,Mrigal	Fish Fingerlings	35000	21000	70000	

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
December 2023	200	60	
Total :	200	60	

(For whole of the year)

6.6. Utilization of staff quarters:NA

Whether staff quarters has been completed:

No. of staff quarters:

Date of completion:

Occupancy details:

Months	Q I	Q II	Q III	QIV	Q V	QVI

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Current and Saving account	SBI, Main branch, Nayagarh	Nayagarh	11383056681:-Contingency 36473719407:- ARYA 40079686680:- DAMU 33991533548:- Revolving Fund

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	

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	
Pegionpea	0.90	0.53132	0.53132	-	0

2019.5. Utilization of KVK funds during the year 2023-24 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	141.80	139.80	-
2	Traveling allowances	1.50	1.49700	1.08239
3	Contingencies			
A	OE&POL	3.40	3.40	3.38361
B	Training	2.55	2.55	2.54557
C	FLD	1.28	1.28	1.27910
D	OFT	1.27	1.27	1.25467
E	SCSP	15.00	15.00	14.98219
F	HRD	0.03	0.03	0.0035
G	Swachhta Expenditure	0.34	0.34	0.34
TOTAL (A)		167.17	165.167	24.87103
B. Non-Recurring Contingencies				
1	Library	0.10	0.10	0.10
2	Equipment &Furniture	0.70	0.70	0.69212
TOTAL (B)		0.80	0.80	0.79212
C. REVOLVING FUND				5.26856
GRAND TOTAL (A+B+C)		**167.97**	**165.967**	**30.93171**

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	2,69,714	4,65,261	2,86,306	1,40,185
2020-21	1,40,185	13,60,554	10,26,771	1,74,810
2021-22	1,77,810	5,35,456	4,27,037	2,86,229
2022-23	2,62,913	8,55,097	5,24,369	3,30,728
2023-24	1,59,318	6,97,303	526856	81333

7.6. (i) Number of SHGs formed by KVKs:10
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities Mushroom production, Vermi-composting, Value addition, Fish fingerlings production, Nursery raising

(iii) Details of marketing channels created for the SHGs: Through ORMAS and OLM

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
FIAC	15	Kharif, 2023	-	15	-
Field Day	02	Kharif and Rabi 2023	02	-	-
QPM verification	01	Rabi 2023	01	-	-
Horticulture crop verification (Organic Cashew production)	03	Kharif and Rabi 2023	03	-	-

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
BLB	Paddy	2nd week of August	1000	-	Field visit and recommendation of suitable control measures
Sheath Blight	Paddy	1st week of Sept.	800	-	Conducted demonstration, field visit and recommended of suitable control measures
BPH	Paddy	2nd week of October	100	-	Field visit and recommendation of suitable control measures
Root rot	Green gram	1st week Decembe r	300	-	Field visit and recommendation of suitable control measures
BLB	Paddy	2nd week of August	1000	-	Field visit and recommendation of suitable control measures

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)
Argulous	Rohu, Mrigal	2nd week of December	20	-	Application of cypermethrin and deltamethrin and TANDAV to control argulous in pond

9.1. Nehru Yuva Kendra (NYK) Training:NA

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:NA

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	14	96694
Livestock	4	96698
Fishery	2	1256
Weather	1	96698
Marketing		
Awareness		
Training information		
Other	4	5380
Total	25	

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	48250
2.	No. of farmers registered in the portal	2,40,000
3.	Mobile Apps developed by KVK	1
4.	Name of the App	Matstya Bandhu

5.	Language of the App	English/Odiya
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
02.10.2023-06.11.2023	Digitization of office records/ e-office
Sept 2023 to Feb, 2023	Cleaning and beautification of surrounding areas
27.09.2023, 29.09.2023	Swachhta Awareness at local level
27.09.2023, 29.09.2023	Swachhta Pledge
16.10.2023	Agricultural waste management using vermicompost

b. Details of Swachhta activities with expenditure

Activities	**Number**	**Expenditure (in Rs.)**
1. Digitization of office records/ e-office	2	-
2. Basic maintenance	-	-
3. Sanitation and SBM	3	3000
4. Cleaning and beautification of surrounding areas	6	17000
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	2	8000
6. Used water for agriculture/ horticulture application	-	-
7. Swachhta Awareness at local level	6	6000
8. Swachhta Workshops	-	-
9. Swachhta Pledge	2	
10. Display and Banner	-	-
11. Foster healthy competition	-	-
12. Involvement of print and electronic media	-	-
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	150	-
14. No of Staff members involved in the activities	15	-
15. No of VIP/VVIPs involved in the activities	-	
16. Any other specific activity (in details)	-	-

Total	**20**	**34000**

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)

Please provide good quality photographs:

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	Mahila Kisan Diwas	01	50	-	-

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	Mr Malaya Kumar Sahoo	At- Solapata Bl- Odogaon, 9439689459	IFS
2	Mr Santosh Kumar Mohanty	At-Sarapada, Bl-Nayagarh, 7978237603	Organic Farming
3	Mrs Sini Jena	At-Anlamada, Bl-Khandapada,9348476039	Mushroom farming
4	Mr. Satyanarayan Jena	At- Kakalama, Bl-Ranapur, 9937277397	IFS

9.13. Revenue generation

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
1.	Training hall, Farmers hostel and Audio-Visual charge	37,700	Dept. of Agriculture, Nayagarh Dept. of Watershed and Soil Conservation, Nayagarh Dept. of Fishery, Nayagarh Dept. of Agriculture, Koraput Dept. of Agriculture, Bolangir Dept of Agriculture, Baragarh

9.14. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created

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
12.11.2021	IMD	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
Odisha	Nayagarh	ICM	6	67	1. KVK Nayagarh has organized 6 no. of group meetings in flood affected areas of Khandapada, Bhapur block

					involving the local farmers. It was suggested to cultivate maize, Blackgram & vegetable crops due to damage of the rice crop in flood. 2. Community Vegetable nursey raising.

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

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.	3	3	75	75
	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	4	40	40
4	**Awareness camps, exposure visits etc.**		No.	3	3	100	100
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 farm/ hatchery	No.				
	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	9	9	60	60
	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	45	45	50	50
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 TSP in 2023-24 (Rs. In lakh):

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.	33	33	835	835
	1.2	4-10 days	No.	6	6	120	120
	1.3	2-4 weeks	No.				
	1.4	More than 4 weeks	No.				
2	**On Farm Trials (OFTs)**		No.	0	0	0	0
3	**Front Line Demonstrations (FLDs) and other demonstrations**		No.	22	22	50	220
4	**Awareness camps, exposure visits etc.**		No.	28	18	920	780
5	**Input Distribution**						
	5.1	Seeds (Field Crops)	Tonnes	2kg	25	0	0
	5.2	Seeds (High Value Crops, spices etc.)	kg	150 kg	100	0	0
	5.3	Seeds (Root & Tuber Crops)	tonnes	50 kg	0	200	0
	5.4	Nursery plants	No.	50000	11500	800	720
	5.5	Cutting , slips, suckers, etc	No.	10500	10000	100	70
	5.6	Mushroom Spawns/ Bio-Fertilizers (in Packets)	Packets	1000	0	50	0
	5.7	Honey Bee Colonies	No.	8	0	8	0
	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.	2700	625	100	95
	5.11	Fish Spawns/ fingerlings	No.	50000	40000	120	120
	5.12	Small equipment's (upto Rs 2000)	No.	15	15	25	25
	5.13	Medium Equipment's/ machinery (upto Rs 25000)	No.	5	1	100	20
	5.14	Large Equipment's / machinery (> Rs. 25000)	No.	2	1	2	20
	5.15	Infrastructure / Civil Works/ Ponds etc	No.	2	1	3	0
	5.16	Setting up plant nursery/ seed farm/ hatchery	No.	2	1	6	6
	5.17	Land development/ Reclamation / Conservation	hectares	5	0	10	0
	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	20	0	60	0
	5.23	Plant growth Promoter	kg	20	9	120	60
	5.24	Animal Feed	tonnes				
	5.25	Animal Fodder	tonnes				
	5.26	Animal medicines	doses				
	5.27	Any other (Liquid PSB etc.)	Litre	150 liter	0	0	0
6	**Services/Facilitation**						
	6.1	Animal Health Camps	No.	2	0	200	0
	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.	300	150	100	70
	6.5	Promotion of agri-entrepreneurship	No.	300	200	5	3
	6.6	Promotion of IFS, IOFS, Natural Farming, Nutrigarden, kitchen garden, orchards etc	No.	5	2	16	16
	6.7	Creation of market links of farm produces	No.	16	6	20	20
	6.8	Use of Institute Facilities (Processing etc.) (in Hours)	Hours	6	2	5	5
	6.9	Subsidies/ Assistance (50% of Project cost, Max. Rs 10,000/beneficiary)	No.	30	5	5	5
7	**Distribution of Literature**		No.	305	12	1000	10
8	**Employment generation for livelihood**		(Man-months)	8	3	102	1
9	**Fellowship, Stipends or Scholarship**		No.	1	1	101	0
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	1	1	101	
11	**Monitoring & Evaluation of DAPSC/ST (upto 3%)**		0	-	-	-	-
12	**Any other (specify)**		0	-	-	-	-

b. Fund received under SCSP in 2023-24 (Rs. In lakh):**15.00**

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

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 progressive fish farmer	Mr Rabindra kumar Sahoo	2023	KVK, OUAT	-	Progressive IFS and fish farmer
2	Progressive FPO	Rankadeuli FPO	2023	KVK, OUAT	-	Progressive FPO

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

Nayagagrh Kanteimundi brinjal **have been finally Registered by GI Registration Office, Chennai as GI product with the effort of KVK, OUAT, Nayagarh and** ***Kanteimundi brinjal*** **is the first GI product of the district.**

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
	Rankadeuli FPO		House No042, Baunsagada ,Lunisahi, Ranpur, Nayagarh, Orissa India,752026 U01110OR2018 PTC029369 19/07/2018	Production Processing Marketing	Blackgram, Greengram, Aromatic Paddy,Vegetables, Turmeric	508	41.4	Shareholders mobilization, equity collection Upscaling business activities, promoting producer

								groups, institutional linkage for marketing of the produce, conducting AGM meeting & Board of Director's meet.

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
1	Vermicomposting	0.2 h	5q/bed	3020	7500	10	30
2	Farm pond	0.2 ha	50000 (Fry)	25000	50,000	20	55
3	Apiary	5 box	25 Kg	3200	7500	06	38
4	Duckery unit	13 nos	200 eggs	5400	3000	05	25
5	Cattle unit	1 no	-	-	-	-	-

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	Demonstration on preparation of sugarcane jaggery		210	10	
2	Demonstration of adoption rate of Bio-fortified Sweet potato varieties for nutritional security of farm family	Cultivation of Sweet potato	0.97	10	
3	**Demonstration of on poultry bird Pallishree in back yard system for farm women**	Rearing of fully vaccinated 21 day old Pallishree chicks in backyard.	24/bird	10	
3	**Demonstration on on Polyculture of Prawn with carp**	Stocking of freshwater prawn PL-10,000 nos. with stunted fingerlings of Catla – 3000 nos., rohu-2000nos. grass carp-500nos. and per ha	142500	10	

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

	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
Phase	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		

(Please provide good quality photographs)

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	

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
1	Safe and judicious use of glyphosate to pest control operators	15.11.2023	Kvk,Nayagarh	To aware about the bad effect of application of glyphosate in different crops and its safe use	50

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

	
Assessment of Integrated Management of sucking pest in okra	Refinement on IPM module for Management of sucking pest in brinjal
	
Assessment of Mechanical seed drill for green gram sowing	Assessment of aeration system in farm pond for off season fish seed production
	
Assessment of Maize sheller	Assessment of Intercropping in mango based FS
	
Assessment on Suitable species for Biofloc Technology	Demonstration on INM for FAW in Sweetcorn

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<tr><td>Demonstration of Mechanized DSR with weed management</td><td>Demonstration on Preparation of Quality jaggery</td></tr>
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<tr><td>Demonstration of Biofortified Sweet potato</td><td>Demonstration on Ragi thresher cum pearler</td></tr>
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<tr><td colspan="2">Exposure Visit of FET students to Farmer’s Field</td></tr>
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<tr><td>Awareness on Backyard poultry rearing under SCSP</td><td>Awareness on vegetable production under SCSP</td></tr>
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District level Farm Mechanization fair	DD kisan coverage on Farm Mechanization

Sd/-
(ANIL KUMAR SWAIN)
Sr. Scientist & Head
KVK, OUAT, Nayagarh