

ANNUAL PROGRESS REPORT 2021

(January 2021 to December 2021)



କୃଷି ବିଜ୍ଞାନ କେନ୍ଦ୍ର
कृषि विज्ञान केन्द्र
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- BalugaonDistNayagarh 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

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, 2021)

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	79800-211500 Rs.1,04,100	19.10.2019	Temporary	Other
2	Subject Matter Specialist	Mrs. Gitanjali Subudhi	Scientist	Home Science	57700-182400 Rs.89,800	04.06.2021	Temporary	Other
3	Subject Matter Specialist	Mr. Pramod Ku Prusti (On Study Leave)	Scientist	Plant Protection	57700-182400 Rs.82,200/-	24.05.2018	Temporary	Other
4	Subject Matter Specialist	Dr. (Mrs.) Lata Malik	Scientist	Soil Science	57700-182400 Rs.79,800	20.07.2018	Temporary	Other
5	Subject Matter Specialist	Mr. TribijayiBadjena	Scientist	Agril. Extension	57700-182400 Rs.77,500	07.04.2010	Temporary	Other
6	Subject Matter Specialist	Er. (Mrs.) Suchismita Dwivedy	Scientist	Agri. Engg.	15600-39100 +AGP 6000 Rs.19,810/- (6th CPC)	22.01.2016	Temporary	Other
7	Subject Matter Specialist	Vacant	Scientist					
8	Farm Manager	Mr. DebasishNayak	Farm Manager	Agronomy	35400-167800 Rs. 47,600/-	31.01.2019	Temporary	Other
9	Programme Assistant	Vacant	Programme Assistant	-	35400-167800	-	Temporary	Other
10	Computer Programmer	Mrs. RosalinPraharaj	Programme Assistant	Computer	35400-167800 Rs.55,200/-	10.03.2006	Temporary	Other
11	Accountant / Superintendent	Vacant	OffSuperintendent Cum- Accountant					
12	Stenographer	Mrs. T. Chhualasingh	Stenographer	Jr. StenocumCom Operator	25500-92300 Rs.30,500/-	11.11.2016	Temporary	Other
13	Driver-cum-Mechanic	Mr. Pramod Ku Lenka	Driver-cum-Mechanic	-	19900-63200 Rs.28,400/-	04.06.2021	Temporary	Other
14	Driver-cum-Mechanic	Mr. DillipPradhan	Driver- Cum-Mechanic	-	19900-63200 Rs.26,800/-	18.02.2019	Temporary	Other

15	Supporting staff	Mr. HariharPradhan	Peon-cum-Watchman	-	18000-92300 Rs.24, 300/-	01.12.2014	Temporary	Other
16	Supporting staff	Mr. GunanidhiBauta	Peon-cum-Watchman	-	18000-92300 Rs.24, 300/-	4.06.2021	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	1.16
4.	Orchard/Agro-forestry	1.2
5.	Others with details	2.97
6.	Permanent Gully	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		800M Required	
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	14752	New
Tractor	2005	4,20,000	338.7(Running Hours)	Good
Motor Cycle	2005	51,000	105281	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
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
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

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

1.8. Details SAC meeting* conducted in the year

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	27.01.2021	22	<p>1. Different Trial/Demonstration on sugarcane considering the importance for the district</p> <p>2. Promotion of biofortified rice varieties</p> <p>3. Emphasis on promotion of Finger millet</p> <p>4. Introduction of new species in pisciculture like mola fish and freshwater prawn etc</p>	<p>1. On farm trial (OFT) of Sugarcane Ridger was conducted at 2 blocks of the district at 10 locations. Sugarcane (Var-Charchika) of Sugarcane Research Station, OUAT, Nayagarh taken as FrontLine Demonstration (FLD) at 10farmers field of 3blocks Seed production of sugarcane done by KVK during 2021</p> <p>2. FLD on Biofortified rice Var: CRdhan 311 conducted at 2 blocks of the district at 10nos. of farmers field during Kharif CRdhan310, 311, 314varitiesmaintained at rice cafeteria</p> <p>3. 1no of training programme conducted for 25nos. of F/FW FLD conducted on Finger Millet for SHG at 4 blocks Seed Production programme taken of Var: Arjun during Rabi, 14nos. of awareness programme conducted for Millet production during Kharif utilizing fallow upland Varieties (OUAT) of Millet (Arjun, Bhairabi, Kalua) have taken at crop cafeteria of KVK Presented the success of millet production to district administration during Rabi Strategy meeting MILLET MISSION implemented for Nayagarh by the Govt. Joint feasibility report submitted for 5blocks</p> <p>4. Amur carp new improved carp (A Selective Breed) was conducted under OFT at 10locations of 3blocks during Kharif with different stocking ratio with IMC. Java Puntia barb under FLD as Intercrop will be conducted</p>	

			<p>5. Popularization of mushroom spawn production technology with polypropylene bags</p> <p>6. Popularization of new poultry breed</p> <p>7. Demonstration of new jaggery production technology</p> <p>8. Popularization of vegetable seedling production in group approach involving SHGs.</p>	<p>during February Demonstration of Freshwater Prawn with Grass carp conducted at 10 villages of 6 blocks during Kharif 2021. Mola fish along with locally collected Indigenous fishes (Puntius, Magur) taken at On Campus Trial under Natural farming in Aquaculture</p> <p>5. One Rural youth (20nos.) training conducted One Farm women (25nos.) training conducted 6nos. of awareness Training programme through Hort. Dept OFT on Mushroom spawn production with polypropylene bags conducted at Nayagarh block at 10 units.</p> <p>6. FLD on Backyard Poultry Rearing of breed Kadaknath was conducted at 2 blocks for SHGs. Conducted 2nos. of Training programme for 50 F/FW Production of 2200nos. of 21 days old chicks (Var: Vanaraja, Kadaknath, Aseel) under RF and provided to 58 farmers, 14 SHGs and Odisha Livelihood Mission of district 3 breeds of poultry Vanaraja, Kadaknath, Aseel at KVK demo. Unit</p> <p>7. OFT on Preparation of Quality Sugarcane jaggery conducted 2 blocks Awareness programme conducted in association with Agriculture and Industries Dept. of Nayagarh district Submitted project on Promoting agripreneurship through Livelihood Business Incubation (LBI) Centres on Jaggery preparation to MSME (ASPIRE) under ODOP</p> <p>8. Activities will be taken during 2022</p>	
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			<p>9. Conducting Farm Field School (FFS) for better farmer to farmer extension</p> <p>10. Documentation of farmers innovation and update of KVK portal</p>	<p>9. Farm Field School on Production of tomato through plastic mulching and staking was conducted at the field of Mr Santosh Kumar Barad, Vil-Solapata, BI-Odogaon involving 30 farmers.</p> <p>Aqua Field School conducted at Mr. SusantaSamantray of Vill: Khedapada, BI: Nayagarh Field on “Fresh water Prawn in Carp Polyculture” with 20farmers from 14villages of 4blocks along with Asst. Fishery Officer</p> <p>10. One farmers documentation telecast done at DD Odia and more will be done during 2022.</p> <p>ICAR KVK portal updated with 618 entries at Sl. no 168 (Among 724 KVKs)</p>	
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* Salient recommendation of SAC in bullet form

Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2021)

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 (2021)

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	Daspalla	Odiabudhapadar	Paddy, Pigeon pea, Vegetables, Mushroom & Poultry	<ul style="list-style-type: none"> • Labour problem indifferent agricultural operation in pulses. • Poor productivity of Pigeon pea due to disease complex • Non-commercialization of organic wastage • Low productivity of countrybirds 	<ul style="list-style-type: none"> • Farm mechanization in pigeon pea • IPDM in greengram • Promotion of Renewable energy • Vermi-compost production • Rearing management of improved poultry Cultivation of Paddy straw mushroom with threshed straw
2	Nayagarh	Daspalla	Nachhipur	Paddy, greengram, Vegetables, Mushroom	<ul style="list-style-type: none"> • Severe yield loss due to attack of BPH in paddy • Low price of vegetables in Rabi season 	<ul style="list-style-type: none"> • IPDM measures in paddy • Off season vegetable cultivation & Promotion of floriculture

					<ul style="list-style-type: none"> • Underutilisation of threshed paddy straw 	<ul style="list-style-type: none"> • Varietal evaluation & production management of fish • Cultivation of Paddy straw mushroom with threshed straw
3	Nayagarh	Khandapada	Anlamada	Paddy, Greengram, Vegetables, Groundnut, Sesamum, Fishery	<ul style="list-style-type: none"> • 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 sundrying 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 	<ul style="list-style-type: none"> • 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	Nayagarh	Chindera	Paddy, Greengram, Mustard,	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • INM & IPDM in paddy • ICM in Rabi greengram • Farm mechanization. • Introduction of short duration oilseed crops • Feeding management of dairy animals.

					<ul style="list-style-type: none"> • Less return from paddy fallow areas • Low milk yield due to poor feeding 	
5	Nayagarh	Odogaon	Godipalli	Paddy, Greengram, vegetables Poultry	<ul style="list-style-type: none"> • Labourer problems for different farm activities • Low price of vegetables in Rabi season • Low productivity of country birds. 	<ul style="list-style-type: none"> • 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:

Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
Odiabudhapadar	2017	Daspalla	120	833	254
Anlamada	2016	Khandapada	30	6183	214
Godiplalli	2018	Odogaon	45	2500	275
Nachhipur	2018	Daspalla	85	948	235
Chindera	2018	Nayagarh	45	1390	231

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

Name of village	Block	Action taken for development
Odiabudhapadar	Daspalla	OFT, FLDs, Trainings, different extension activities, Awareness Campaign
Anlamada	Khandapada	OFT, FLDs, Trainings, different extension activities, Awareness Campaign
Godiplalli	Odogaon	OFT, FLDs, Trainings, different extension activities, Awareness Campaign
Nachhipur	Daspalla	OFT, FLDs, Trainings, different extension activities, Awareness Campaign
Chindera	Nayagarh	OFT, FLDs, Trainings, different extension activities, Awareness Campaign

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.

TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievement of mandatory activities by KVK during the year 2021

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										
10	10	100	SC			ST			Others			Total	18	16	180	SC			ST			Others			Total
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T		
			15	11	25	8	35	6	75	25	100				22	18	28	25	37	30	87	73	160		
Training												Extension activities													
Number of Courses				Number of Participants								Number of activities				Number of participants									
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement										
55	51	1275	SC			ST			Others			Total	1347	1242		SC			ST			Others			Total
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T		
			35	15	20	3	102	16	10	190	12				35	15	25	21	66	108	1	1	1		
						0	5	5	85		75									0	1	0	2		
																					4	2	4		
																					0		2		

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
5	100	12	7	18	5	25	33	55	45	100	100	100	1	0	1	0	5	2	7	2	9
Seed production (q)											Planting material (in Lakh)										
Target						Achievement					Target						Achievement				
10						6.5t					1.0						0.99550				
Livestock strains and fish fingerlings produced (in lakh)*											Soil, water, plant, manures samples tested (in No)										
Target						Achievement					Target						Achievement				
50,000						44,000					500						339				

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	Details of Award given to the publication
Research paper	-	-	-	-	-	-	-
Seminar/conference/ symposia papers	-	-	-	-	-	-	-
Books			-	-	-	-	-
Bulletins			-	-	-	-	-
News letter	02	1000	-	-	-	-	-
Popular Articles	05	5000	-	-	-	-	-
Book Chapter			-	-	-	-	-
Extension Pamphlets/ literature	05	5000	-	-	-	-	-
Technical reports			-	-	-	-	-
Electronic Publication (CD/DVD etc)	09	120	-	-	-	-	-
TOTAL	21	11,120					

1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On Farm Trial	Assessment of Bacterial wilt Resistant Brinjal varieties
2.	Problem diagnosed	Yield unstability due to severe wilt complex in cultivable variety
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment FP: Brinjal var. Bhairabi TO ₁ : Brinjal var. Kalinga Brinjal (BB 67) (Plant height-115-130 cm, Resistant to bacterial wilt, fruit round in shape, green in colour, yield- 320-330q/ha) TO ₂ : Var. Swarna Shyamali (Medium size fruit(250g), green color with white strips, Resistant to bacterial wilt,yield-60-65t/ha)
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	OUAT, 2019 ICAR-RCER, Ranchi
5.	Production system and thematic area	Irrigated medium land and Varietal Intervention
6.	Performance of the Technology with performance indicators	Wilt Infestation, Yield (q/ha), B:C Ratio
7.	Final recommendation for micro level situation	The Variety having good yield potential 283.3q/ha, Resistance to bacterial wilt
8.	Constraints identified and feedback for research	The stem of the plant and fruit having thorn which was a measure constraint identified during the trial
9.	Process of farmers participation and their reaction	Farmers participated in Group meetings and through demonstration they adopt the technology

Thematic area: Varietal Intervention

Problem definition: Yield unstability due to severe wilt complex in cultivable variety

Technology assessed: Assessment of Bacterial wilt Resistant Brinjal varieties

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
		Plant height	Days to 50% Flowering	Average fruit weight (g)						

FP	10	93 cm	60-65 days	70g	5.8	212.6	123260	255148	131888	2.07
TO ₁	10	89 cm	60 days	220g	3.65	278.9	152795	334620	181825	2.19
TO ₂	10	120 cm	60-65 days	250g	3.42	283.3	154535	339976	185441	2.20

OFT: 2

1.	Title of On Farm Trial	Assessment on production of Biofortified sweet potato varieties
2.	Problem diagnosed	Unutilized upland area rabi season
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment FP: Cultivation of local variety TO ₁ : Bhu Krishna TO ₂ : BhuSona
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CTCRI,Thiruvanthapuram,Kerala,2017
5.	Production system and thematic area	Irrigated Upland
6.	Performance of the Technology with performance indicators	Tuber yield (T/ha), Dry matter (%), starch (%), Total sugar (%)
7.	Final recommendation for micro level situation	-
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	-

Thematic area: Varietal Intervention

Problem definition:Unutilized upland area in rabi season

Technology assessed: Assessment on production of Biofortified sweet potato varieties

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
		Average fruit weight (g)	No. of spikelet per panicle	Test wt. (100 grain wt.)						

Crop is in the field and it will be harvested in the month of March

OFT: 3

1.	Title of On farm Trial	Assessment on Performance of different substrates for vermicompost production
2.	Problem diagnosed	Underutilization of organic wastage and scarcity of organic manure
3.	Details of technologies selected for assessment/refinement	Assessment FP: Vermicomposting from normal cow dung compost TO ₁ : Vermicomposting from cow dung+ vegetable waste (2:3) TO ₂ : Vermicomposting from cow dung+ Field Crop residue (2:3) TO ₃ : Vermicomposting from cow dung+ sal leaves substrate (2:3)
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	NRCM, Solan, 2012
5.	Production system and thematic area	Organic manure production and Production of organic inputs
6.	Performance of the Technology with performance indicators	NPK status (%), Conversion period(days), Conversion ratio
7.	Final recommendation for micro level situation	Vermicomposting from cow dung+ Field Crop residue (2:3)
8.	Constraints identified and feedback for research	Farmers are not aware about organic compost and adaptable to old method
9.	Process of farmers participation and their reaction	Group meetings, trainings and demonstration they are lacking in knowledge to adopt the technology

Thematic area: Production of organic inputs

Problem definition: Underutilization of organic wastage and scarcity of organic manure

Technology assessed: Assessment on Performance of different substrates for vermicompost production

Table:

Technology option	No. of trials	Yield component			Yield (q/pit)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		NPK%	Conversion Period (days)						
FP	10	1.01,3.9,1.50	126		3.5	1660	5250	3590	3.1
TO ₁	10	2.51,7.7,2.55	122		4.81	1690	7215	5600	4.26
TO ₂	10	2.53,8.7,2.65	123		5.1	1710	7650	5940	4.47

TO ₃	10	2.64,9.8,2.94	121		5.58	1730	8370	6640	4.83
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OFT:4

1.	Title of On farm Trial	Assessment on production of sweet corn varieties
2.	Problem diagnosed	Farmers are lacking in knowledge for growing of HYV of sweet corn
3.	Details of technologies selected for assessment/refinement	Assessment FP:Cultivation of local variety TO ₁ : Pusa Super sweet corn1 TO ₂ : VL sweetcorn Hybrid 2
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	IARI, New Delhi 2021
5.	Production system and thematic area	Rice-pulse and Varietal Intervention
6.	Performance of the Technology with performance indicators	No of Cob/Plant, Cob Length, Yield and Economics
7.	Final recommendation for micro level situation	Pusa Super sweet corn 1 resulted better yield in farmers field
8.	Constraints identified and feedback for research	Market linkage
9.	Process of farmers participation and their reaction	Group meetings, trainings and demonstration they are lacking in knowledge to adopt the technology

Thematic area: Varietal Intervention

Problem definition: Farmers are lacking in knowledge for growing of HYV of sweet

Technology assessed: Assessment on production of sweet corn varieties

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
		No. of cobs/plant	Cob diameter (cm)						
FP	10	2	11.2		34.5	48300	120750	72450	2.5
TO ₁	10	3	14.5		47.6	49000	166600	117600	3.4

OFT: 5

1.	Title of On Farm Trial	Assessment on preparation of Sugarcane Jaggery
2.	Problem diagnosed	Due to black in colour and poor quality of jaggery, fetching less market value and consumer acceptance
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment TO ₁ :Vegetable clarificants like 500 ml. of ladies finger plant extract per 400 liters of cane juice will be used to adjust the pH to obtain better colour of the produce TO ₂ :Vegetableclarificants like 500 gm of groundnut paste per 400 liters of cane juice will be used to adjust the pH to obtain better colour of the produce.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TNAU
5.	Production system and thematic area	Cottage based
6.	Performance of the Technology with performance indicators	Quality of Jaggery (Colour)
7.	Final recommendation for micro level situation	Natural clarificants clarify the juice better than using chemicalclarificants like Calcium hydroxide which is hazardous for human health point of view.
8.	Constraints identified and feedback for research	After implementing the technology options still, the colour of the jaggery becomes black colour after 2-3 days of solidification of jaggery. It needs some other ingredients to retain the golden brownish colour of the jaggery.
9.	Process of farmers participation and their reaction	Training and On farm Trial. Farmers need the technology for golden brownish colour of the jaggery for better consumer acceptance with good market price of the produce.

Thematic area:Value addition

Problem definition: Due to black in colour and poor quality of jaggery, fetching less market value and consumer acceptance

Technology assessed: Assessment on preparation of Sugarcane Jaggery

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
		Colour	Shelf life(month)	Shape						
FP	10	Black	8	Non Uniform	-	-	450	960	510	2.13
TO ₁		Golden Brown	12	Round	-	-	452	1280	830	2.84

TO ₂		Golden Brown	12	Round	-	-	475	1280	805	2.69
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OFT: 6

1.	Title of On Farm Trial	Assessment on Tractor Operated Seed cum Fertilizer drill for Direct seeded of rice (DSR)
2.	Problem diagnosed	Random broadcasting followed by beusaning
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment TO ₁ :Bullock drawn Seed cum Fertilizer drill with Secondary tillage TO ₂ :Tractor operated Seed cum Fertilizer drill with Secondary tillage
4.	Source of Technology (ICAR/ AICRP/SAU/other)	CAET, OUAT, 201
5.	Production system and thematic area	Field Based
6.	Performance of the Technology with performance indicators	Field capacity (ha/hr), Labour Requirement (MDs/ha), Cost of operation (Rs./ha.), Yield(q/ha.), Seed rate(Kg.)
7.	Final recommendation for micro level situation	Mechanized DSR reduced the time of sowing, seed rate and also time saving for subsequent crop.
8.	Constraints identified and feedback for research	Availability of machine.
9.	Process of farmers participation and their reaction	Training and group meetings, Farmers showed their active participation during the program.

Thematic area: Farm Mechanization

Problem definition: Random broadcasting of seed requires more time, more labour requirement with more incidence of weed population.

Technology assessed: Assessment on Tractor Operated Seed cum Fertilizer drill for DSR (Direct seeded of rice)

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
		Field capacity (ha/hr.)	Labour Requirement (MDs/ha.)	Seed rate(Kg.)						
FP	10	5.4	7.1	15.5	-	39.3	36880	59010	22129	1.6
TO ₁		3.5	5.1	12.1	-	42.8	36556	66165	29610	1.81
TO ₂		2.25	2.1	10.2	-	47.5	38664	73845	35183	1.91

FP	10	11	2.6	2.5	31	12.50	14.235	1.735	1.14
TO ₁		16	5.3	0	25	11.69	13.25	1.56	1.13
TO ₂		11	4.2	0	26	11.85	14.37	2.57	1.21

OFT: 9

1.	Title of On farm Trial	Assessment on performance of Improved carp “Amur” in carp polyculture system
2.	Problem diagnosed	Slow growth rate of Mrigal (Bottom feeder) affects the average yield in Indian Major Carp polyculture
3.	Details of technologies selected for assessment/refinement	Assessment Stocking Density Ratio FP: Catla:Rohu:Mrigal. =30:40:30 TO ₁ : Catla:Rohu:Mrigal:Amur= 30:40:20:10 TO ₂ : Catla:Rohu:Mrigal:Amur. = 30:40:10:20
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	UAS, Bangalore, 2013
5.	Production system and thematic area	Pond Based System and Varietal Evaluation
6.	Performance of the Technology with performance indicators	Growth rate (%), Yield (q/ha), Maturity (%)
7.	Final recommendation for micro level situation	Small to medium tank
8.	Constraints identified and feedback for research	Amur carp growth is more (Avg.=1250g) in community and old pond compared to 2-3yr old pond
9.	Process of farmers participation and their reaction	Farmers were interested for breeding of Amur Carp

Thematic area: Pond Management

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

Technology assessed: Assessment on performance of Improved carp “Amur” in carp polyculture system

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	3	20	750	0	18.3	151875	264375	112500	2.35
TO ₁	10	21	850	5	19.6	161590	285890	124300	2.30
TO ₂	10	25	1050	8	20.5	196475	331975	135500	2.45

OFT: 10

1.	Title of On farm Trial	Assessment on control of Argulus (Lice) in Fishes in carp polyculture
2.	Problem diagnosed	Fish mortality due to Argulosis
3.	Details of technologies selected for assessment/refinement	Assessment FP: Application of lime 100kg/ha. TO ₁ : Cypermethrin 10% EC @ 0.01 ppm in water TO ₂ : Deltamethrin 2.8% EC @ 0.02 ppm in water TO ₃ : Ivermectin 2% w/w@ 250g/1ton of fish feed
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-CIFA (2018), BENFISH (2018)
5.	Production system and thematic area	Culture based system and 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	Small to medium tank
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Health Management

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

Technology assessed: Assessment on control of Argulus (Lice) 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	9	5	700	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: 11

1.	Title of On Farm Trial	Assessment of new poultry breeds in backyard system
2.	Problem diagnosed	Poor production and income from local nondescript desi type chicken
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment FP Rearing of Desi birds TO ₁ : Rearing of Kadaknath TO ₂ : Rearing of Aseel cross
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Annual Report 2016-17, Dir. of Poultry , ICAR
5.	Production system and thematic area	Backyard poultry
6.	Performance of the Technology with performance indicators	Body weight at 2month, 4months and annual egg production
7.	Final recommendation for micro level situation	Due to faster growth of Aseel than kadaknath & local breed they will get better market price.
8.	Constraints identified and feedback for research	Availability of breed
9.	Process of farmers participation and their reaction	Group meeting and demonstration

Thematic area: Income Generating activities

Problem definition: Poor production and income from local nondescript desi type chicken

Technology assessed: Assessment new poultry breeds in backyard system

Table:

Technology option	No. of trials	Yield component			annual egg production	Yield {Kg/Bird) 5 Months	Cost of cultivation (Rs./ Bird)	Gross return (Rs/ Bird)	Net return (Rs./ Bird)	BC ratio
		Body Weight 1 Months	Body Weight 2 Months	Body Weight 4 Months						
FP	10	100g	250g	700g	80	1Kg	225	450	225	2.0
TO ₁	10	200g	500g	1200g	120	1.5Kg	338	720	382	2.13
TO ₂	10	250g	650g	1800g	120	2 kg	335	900	565	2.69

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration										Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total				
						M	F	M	F	M	F	M	F	T		
1.	Rice	IDM	Demonstration on Sheath Blight Management in rice (Spraying of Trifloxystrobin 25% + Tebuconazole 50% 75 WG twice after 30 & 60 DAT)	1.0	1.0	2	-	-	8	-	10					
2	Rice	Varietal Intervention	Demonstration on Bio-fortified rice (var. CR 311) (CR 311(Mukul), Medium duration (120-125 days), semi-dwarf plant type (110 cm) with long bold grain and good cooking and eating quality)	1.0	1.0	1	-	1	-	8	-	10				
3	Baby corn	Varietal evaluation	Demonstration on Baby Corn (Hybrid Baby corn in medium land situation)	1.0	1.0	3	-	-	-	7	-	10				

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy
				N	P ₂ O ₅	K ₂ O					
Rice	Kharif 2021	Irrigated medium land	Red lateritic soil	248	37	219	Greengram	1 st week July	Last week November	1879	40
Cabbage	Rabi 2021	Medium	Sandy	253	18	132	Rice	2 nd week	Last week	1578	2

		Land	loam					November	Jan.		
Green gram	Rabi 2021	Medium Land	Sandy loam	181	16	122	Rice	2 nd week November	1 st week February		
Chilli	Kharif 2021	Up land	Red laterite	248	37	219.6	Rice	3 rd week October	1 st week January		
Chilli	Rabi 2021	Medium Land	Sandy loam	176	8.6	124.4	Rice	3 rd week October	1 st week January		
Brinjal	Rabi 2021	Medium Land	Clay loam	195	8.4	101.9	Rice	3 rd week October	1 st week January		
Tomato	Rabi 2021	Medium Land	Clay loam	212	10.3	119.5	Rice	4 th week October	2 nd week February		
Marigold	Rabi 2021	Medium Land	Sandy loam	197	12.4	123	Rice	1 st week January	1 st week March		

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

* 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
Pigeonpea	IPM	Demonstration on IPM of pod borer in pigeon pea (Spraying of Azadiractin 0.15% @ 1.5 l/ha at 50% at flowering stage followed by Flubendiamide 48SC @ 200ml/ha (2ml/5 litre water) and Bt @ 1kg/ha (2g/litre) at 15 days intervals)	10	1	19	16.1	18	60067	114008	53941	1.9	53164	96842	43678	1.65

	IDM	Demonstration on Root rot management in green gram (Soil Treatment with <i>T.viridae</i> @ 5kg/ha with 60kg FYM, Seedtreatment with Vitavax Power @2g/kg seed, roguing of the infected plants, soil drenching with vitavax power@ 2g/ltr at the spot and application of (Cyamoxil + Mncozeb) fungicide)					22.5	16683	31635	14952	1.9	16262	25898	9636		
Greengram			10	1	4.23	3.45										1.59
	Total		20													

* 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	The matic 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 Incident (%)	Check incident (%)	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR

Tomato	IDM	Demonstration on Leaf Curl Management in Tomato Dipping the roots of seedling for 15 min in Imidacloprid 200 SL @ 0.3ml/lit of water/acre for management of leaf curl vector. 15 days after planting Imidacloprid 17.8 % SL @ 60-70ml /200lt or Thiometoxam 25 WP @ 0.3 g/lit for leaf curl Vector (Whitefly) control	10	1ha	188.4	166	17.04	35	44	86823	188406	101583	2.17	82899	166000	83101	2.0
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Tomato	Yield increment and Weed control	Demonstration production of tomato through staking and plastic mulching Staking will be done in the vertical manner with fish net as staking material with 100 micron Grey-black polythene for mulching.	10	1.0	198.2	103.6	91	60g	8.5g	514200	991000	474854	1.92	194510	310800	117756	1.59
Tomato	Production of organic inputs	Demonstration on liquid Biofertiliser Management in tomato	10	1ha	257	196.5	30.7	-	-	372650	84300	288350	4.42	75000	284925	209925	3.79

Mahua	Value Addition	Demonstration on value addition of Mahua Dried and roasted Mahua flower will be grinded. Ragi flour, sesame seeds, cashew nut will be roasted with ghee, and added to jaggery along with roasted mahua flower in the pan to make ladoos. Also cardamom powder will be added to enhance the flavor	10	10 locations	2.5	-	-	6 month	-	215	400	182	1.86	-	-	-	-
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Finger millet	Income generation	Demonstration on Finger Millet for SHGs (Duration 126 days, moderately resistance to leaf blast, neck blast, finger blast and brown seed.)	10	5	18.6	8.5	118.8	No of tiller/plant-17 No of finger/tiller-6	No of tiller/plant-12 No of finger/tiller-4	105900	74400	31500	2.4	58285	34000	24285	1.4
Marigold	Income generation	Demonstration on Marigold cultivation (Transplanting of seedling at spacing 60x45 cm, topping of apical shoots at 15 days interval three times to induce branches, application of DAP+Potash 50gram each/plant before flowering and after flowering)	10	1.0	91.2	70.4	29.54%	No. of Flower per plant 77	No. of Flower per plant 57	44950	73080	28130	1.62	38597	56360	18863	1.46

Sugarcane	Varietal Intervention	Demonstration on Sugarcane var: Charchika Var: Charchika (Year-2017, SRS, OUAT)	10	1ha	102	78	30.7			155000	276420	121420	1.78	130000	211380	81380	1.62
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Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	**BCR	Gross Cost	Gross Return	Net Return	**BCR
Dairy																	
Cow																	
Buffalo																	
Poultry	Income generation	Demonstration on poultry bird Kadaknath in backyard system for farm women Rearing of Kadaknath in backyard	10	10	Body weight at 4months-1.05kg	Body weight at 4months-0.850kg	23.53	i)Body weight at 1month(0.190kg), 2months(0.580kg), 4months(1.05kg) (ii)Age of laying-20 th -21 st week, (iii)Annual egg production-80 to 110, (iv)Morbidity rate during extreme heat condition-3%	(i)Body weight at 1month(0.170kg), 2months(0.480kg), 4months(0.850kg) (ii)Age of laying-20 th -21 st week, (iii)Annual egg production-80 to 110, (iv)Morbidity rate during extreme heat condition-3%	200	630	430	3.15	120	306	186	2.55

Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery	Production & Management	Demonstration of duck rearing in polythene ponds Rearing 25no.s of duck/ pond, pond size 10ftx5ftx1.5ft	10	10	1.5Kg	0	3750eggs/15 ducking	0	11807	26330	14523	2.23					
Others (pl.specify)																	

* 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 Minor barb/Carp as Intercrop in Aquaculture	10	10	21.6	17.8	21	850 (IMC-10month)	820 (IMC-10Month) 380 (Java-5month)	1,13,971	319120	1,85,400	2.8	92,333	221600	1,34,000	2.4
Freshwater Prawn	Varietal Performance	Demonstration of Freshwater Prawn with Carp (Grass Carp)	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		20	20													

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

** BCR= GROSS RETURN/GROSS COST

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit				
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Oyster mushroom	Enterprise development																
Button mushroom																	
Vermicompost																	
Sericulture	Demonstration of Scientific Apiculture Cultivation by SHG. (Scientific management of <i>Apis Cerena Indica</i> (Honey extraction, colony division, swarming management, disease management))	10	10 units	6.2 kg/box	-	-	New colony formed/yr.-03	-	1100	3660	2560	3.3	-	-	-	-	-
Apiculture																	
Others (pl.specify)																	
Total		10	10														

* 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					

Sorghum (Fodder)										
Others (Pl.specify)										
Total		10	1	198.2	103.6	91	514200	991000	474854	1.92

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1.	Vegetable Seedlings	Adopted by the farmers for the portable low cost bamboo structure with 100 micron polythene as cladding material resulted more germination percentage with better seedling growth in less time as compared to open field condition.
2.	Tomato	Accepted adopted by the farmers for its longer keeping quality and higher yield with year round production.
3.	Marigold	Ceracola variety of marigold perform better than the other variety
4.	Paddy Straw mushroom	More Research on alternate substrate for paddy straw mushroom.
5.	Lemon grass	This crop requires adequate irrigation show that the yield will be more by 6time crop cuttings instead of 4times in a year
6.	Carps	Improved rohu "Jayanti" should be replaced for normal Rohu to increase the production
7.	Finger millet	Yield potential of Arjun variety of finger millet is higher than the local variety
8.	Poultry	Kadaknath breed is lower in cholesterol(0.73-1.37%) ,rich in minerals like niacin,protein,fat,Ca,P,Fe and vit. like B1, B2,B6,C,E.
9.	Bee keeping	Bee keeping is a profitable enterprise.

Extension and Training activities under FLD

Sl. No	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	15.03.2021 16.03.2021 23.11.2021 21.12.2021	4	80	FLD
2.	Farmers Training	17.08.2021 17.08.2021 19. 08.2021 23.09.2021 24.09.2021 28.09.2021 07.10.2021 10.11.2021 18.11.2021 10.1.2021 03.12.2021 29.12.2021	4	100	Fam farm women trainings
3.	Media coverage	-	-	-	-
4.	Training for extension functionaries	12.01.2021 14.01.2021 22.01.2021 18.01.2021	5	100	-

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

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.	Avg.	D	S	P

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

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/household)

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

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Crop growth and	Good	Better	Acceptable

branching			
Pod size and number of grains per pod	Good	Better	Acceptable
Yield	Good	Better	Acceptable

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended

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.)
Mustard (Rabi-Jan 2021)	i) Critical input	270000	146025	123975
	ii) TA/DA/POL etc. for monitoring	30000	26290	3710
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total	300000	172315	127685
Crop: Arhar (Rabi-Jan 2021)	i) Critical input	80400	68125	12275
	ii) TA/DA/POL etc. for monitoring	9600	7021	2579
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total	90000	75146	14854

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

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 (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	3	65	5	70	0	5	5	0	0	0	65	10	75
Integrated water management													
Integrated Nutrient Management	2	45	0	45	5	0	5	0	0	0	50	0	50
Production and use of organic inputs	2	30	20	50	0	0	0	0	0	0	30	20	50
Management of Problematic soils													
Micro nutrient deficiency in crops	1	25	0	25	0	0	0	0	0	0	25	0	25
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
Others													
Total	8	165	25	190	5	5	10	0	0	0	170	30	200
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	1	-	17	17	-	8	8	-	-	-	-	25	25
Design and development of low/minimum cost diet	1	-	3	3	-	22	22	-	-	-	-	25	25
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 of mushroom	1	-	17	17	-	8	8	-	-	-	-	25	25
Scientific bee keeping	1	-	8	8	-	14	14	-	3	3	-	25	25
Location specific drudgery reduction technologies													
Scientific technique of PS mushroom packaging	1	-	18	18	-	7	7	-	-	-	-	25	25
Women and child care													
Scientific technique of marigold	1	-	2	2	-	-	-	-	23	23	-	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			
XII. Others (Pl. Specify)													
GRAND TOTAL													

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													
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	1	8	8	16	1	3	4	-	-	-	9	11	20
Mushroom Production													
Beekeeping	1	-	20	20	-	-	-	-	-	-	-	20	20
Sericulture													
Repair and maintenance of farm machinery and implements	2	1	20	21	-	-	-	4	15	19	5	35	40
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	2	36	-	36	4	-	4	-	-	-	40	-	40
Entrepreneurship development through farm mechanization	1	8	8	16	1	3	4	0	0	0	9	11	20
Safe measures in use of farm implements	1	-	20	20	-	-	-	-	-	-	-	20	20
Application in liquid fertilizer in vegetable crops	1	8	8	16	1	3	4	0	0	0	9	11	20
Safe Uses of Pesticides	2	28	8	36	1	3	4	0	0	0	29	11	40
Store grain pest management by using pro super bag	1	-	14	14	-	6	6	-	-	-	-	20	20
Scientific method of mushroom spawn production	1	-	15	15	-	5	5	-	-	-	-	20	20

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			
EDP training Agri-Horti	1	20	0	20	0	0	0	0	0	0	20	0	20
Total	14	109	121	230	8	23	31	4	15	19	121	159	280

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	1	20	-	20	-	-	-	-	-	-	20	-	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													
Information networking among farmers													
Capacity building for ICT application	1	5	12	17	0	3	3	0	0	0	5	15	20
Management in farm animals	1	-	15	15	-	5	5	-	-	-	-	20	20
House hold food security by NG	1	-	18	18	-	2	2	-	-	-	-	20	20
Livestock feed and fodder production													
Low cost and nutrient efficient diet designing	1	-	15	15	-	5	5	-	-	-	-	20	20
Other													
Total	5	25	60	85	-	15	15	-	-	-	25	75	100

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	Use of cultural and mechanical practices for BPH Management in Paddy	1	Off	22	3	25	4	2	6
	F/FW	New generation pesticides for Sheath blight Management in Paddy	1	Off	25	0	25	2	0	2
	F/FW	Seed treatment for BLB Management in Paddy	1	Off	24	1	25	2	0	2
	F/FW	Use of seed treatment for YMV management in greengram	1	Off	10	15	25	2	4	6
	F/FW	Mechanical practices and use of new generation	1	Off	25	0	25	4	0	4

		Pesticides for YMV management in greengram								
	F/FW	Cultural, mechanical and new generation pesticides for Leaf curl management in chill	1	Off	18	7	25	7	5	12
	F/FW	Mechanical practices and new generation pesticides for control of DBM in Cabbage	1	Off	22	3	25	4	1	5
Soil Science		Integrated Nutrient Management in maize	1	Off	18	7	25	7	5	12
		Green manuring in sun hemp	1	Off	25	0	25	2	0	2
		Role of Micronutrient in cereal crops	1	Off	24	1	25	2	0	2
		Role of Bio- fertilizer in Tomato Cultivation	1	Off	10	15	25	2	4	6
		Integrated Nutrient Management for Sugarcane Production	1	Off	25	0	25	4	0	4
		Integrated Nutrient Management in Cole Crops	1	Off	18	7	25	7	5	12
		Application of nano zinc in Maize Production	1	Off	22	3	25	4	1	5
		Fertilizer management in baby corn Cultivation	1	Off	18	7	25	7	5	12
		Use of Vesicular Arbuscular Mycorrhiza (VAM) in Greengram & Blackgram	1	Off	10	15	25	2	4	6
Agril. Engg.		Preparation of sugarcane Jaggery.	1	Off	25	0	25	4	0	4
		Preparation of Mahualadoo	1	Off	3	22	25	0	6	6
		Mechanized threshing of pulses	1	Off	11	14	25	5	5	10
		Use of Ridger for sugarcane cultivation	1	Off	5	20	25	0	2	2
		Use of tractor drawn seed cum fertilizer drill for DSR	1	Off	15	10	25	0	0	0
		Staking of tomato var- Arka Rakshyak with plastic mulching.	1	Off	15	10	25	6	0	6
		Operation & Maintenance of harvesting implements for paddy cultivation	1	Off	25	0	25	8	0	8
		Hi-tech horticulture	1	Off	3	22	25	0	6	6
		Water management in tomato	1	Off	11	14	25	5	5	10
Home Science		Paddy straw mushroom Cultivation using crumpled straw.	1	Off	10	15	25	2	4	6
		Scientific technique of paddy straw mushroom	1	Off	25	0	25	4	0	4

		packaging								
		Scientific technique of Finger millet cultivation	1	Off	18	7	25	7	5	12
		Household food security by kitchen gardening and nutrition gardening	1	Off	22	3	25	4	1	5
		Scientific technique of marigold cultivation	1	Off	18	7	25	7	5	12
		Scientific Beekeeping	1	Off	10	15	25	2	4	6
		Production of mushroom spawn	1	Off	25	0	25	4	0	4
		Value addition on mushroom	1	Off	3	22	25	0	6	6
		Design and development of low/minimum cost diet	1	Off	11	14	25	5	5	10
Fishery Science		Fish production with different carp	1	Off	5	20	25	0	2	2
		Integrated fish farming	1	Off	10	15	25	2	4	6
		Feeding management in fishes	1	Off	25	0	25	4	0	4
		Fish diseases and its management	1	Off	18	7	25	7	5	12
		Pond based farming system	1	Off	22	3	25	4	1	5
		Control of Argulosis	1	Off	18	7	25	7	5	12
Agril. Extension		Cooperative and Contract Farming	1	Off	10	15	25	2	4	6
		Leadership development for IPM	1	Off	25	0	25	4	0	4
		ICT in Agriculture	1	Off	3	22	25	0	6	6
		Backyard poultry for income generation	1	Off	11	14	25	5	5	10
		Uses of ICT in Agriculture	1	Off	5	20	25	0	2	2
		Forest nursery management	1	Off	18	7	25	7	5	12
		Growing of <i>Acciamangium</i> for profit maximization	1	Off	10	15	25	2	4	6
		Cultivation of lemon grass	1	Off	25	0	25	4	0	4
		MPTs and their cultivation	1	Off	5	20	25	0	2	2

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 elsewhere
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Farm Implementations	Farm Mechanization	Entrepreneurship development through farm mechanization	02	20	-	20	CHC	1	1	0

*training title should specify the major technology /skill transferred

b) Details of participation

Thematic Area	No. of	No. of Participants	Grand Total
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Soil health Camp											
Animal Health Camp	2	20	20	40	4	3	4	7	23	24	47
Agri mobile clinic											
Soil test campaigns											
Farm Science Club Conveners meet											
Self Help Group Conveners meetings											
MahilaMandals Conveners meetings											
Celebration of important days (specify)	8	164	206	370	31	22	24	46	186	230	416
Sankalp Se Siddhi											
Swatchta Hi Sewa	1	10	0	10	0	2	0	2	12	0	12
MahilaKisan Divas											
Any Other (Specify)	4	17	176	183	29	14	42	56	31	218	239
Total	1888	3995 8	3713 7	7708 5	296	20182	5455	501	6000 9	42529	102729

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	15
Radio talks	0
TV talks	1
Popular articles	2
Extension Literature	2
Other, if any	6

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
Sugarcane	Sabita (Ratoon crop)	6.5 ton	16900	2	1	0	0	15	2	17	3
Rice	Hasanta	21 qtl	67200	25	5	25	5	40	0	90	10
Grand Total				27	6	25	5	55	2	107	13

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
Cereals											
Rice	Hasanta	20.59	66625	20	22	60	82	20	22	60	82
Sugarcane	Sabita	12.5	33875	17	25	55	97	17	25	55	97
Vegetable seedlings											
Cauliflower	Dhawal	1427	3568	39	48	117	204	39	48	117	204
Cabbage	Kailash	3124	7810	12	18	105	135	12	18	105	135
Tomato	ArkaRashkhyak	21483	53708	25	28	136	189	25	28	136	189
Brinjal	VNR B5	14816	37040	4	7	13	24	4	7	13	24
Chilli	VNR 108	1781	4453	19	25	119	163	19	25	119	163
Onion											
Marigold	Ceracola	10464	26160	17	25	55	97	17	25	55	97
Fruits											
Mango											
Guava											
Lime											
Papaya	Red lady	559	13975	12	18	105	135	12	18	105	135
Banana											
Drumsticks	PKM1	517	7755	25	28	136	189	25	28	136	189
Ornamental plants											
Medicinal and Aromatic Plantation											
Spices											
Turmeric											
Tuber											
Elephant yams											
Fodder crop saplings											
Forest Species											
Mushroom Spawn (Paddy Straw)		1846	27690	25	28	136	189	25	28	136	189
Mushroom Spawn (Oyster)		807	12105	17	25	55	97	17	25	55	97
Total		56857.09	294764	232	297	1092	1601	232	297	1092	1601

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-fertilizersVermicompost	82 Kg	1230	25	15	3	2	13	7	41	24
Bio-pesticide										
Bio-fungicide										
Bio-agents										
Others, please specify.										
Total			25	15	3	2	13	7	41	24

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											
Others (Pl. specify)											
Poultry											
Kadaknath		316	31600	50	30	20	10	100	80	170	120
Vanaraja		1174	82180	60	40	30	10	90	50	180	100
Asseel		1116	78120	50	30	20	10	100	80	170	120
Duals (broiler and layer)											
Japanese Quail											
Turkey											
Emu											
Ducks											
Others (Pl. specify)											
Piggery											
Piglet											
Hog											
Others (Pl. specify)											
Fisheries											
Indian carp											
Exotic carp											
Mixed carp											
Fish fingerlings	Amur carp, Grass carp, Jayanti Rohu	50000	44000	25	-	50	-	100	15	175	15
Spawn											
Others (Pl. specify)											
Grand Total		52606	235900	185	100	120	30	390	225	695	355

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

i) Name of Seed Hub Centre:

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

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2021	Rice	Hasanta	1	1 ha	21 qtl	Foundation seed

Rabi 2020-21					
Summer/Spring 2021					
Kharif 2021					
Rabi 2021-2022					

iii) Financial Progress

Fund received (2017-18, 2018-19, 2019-20, 2020-21, 2021-22)	Expenditure (Rs. in lakh)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2017-18	3,00,000	-	0.01812	
2018-19	-	1,75,885	-	
2019-20	-	2,78,715	-	Rs. 0.50000 lakhs profit deposited to DEE, OUAT
2020-2021	-	13,26,771	1,77,808	Rs. 3.00 lakhs profit deposited to DEE, OUAT
2021-2022		4,27,037	2,86,229	

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	Rabi Agro Advisory (DAMU)	Dr. Anil Kumar Swain Sr. Scientist & Head Mrs. SnigdhaPattanayak SMS, Agrometeorology	1	500
Bulletins				
News letter	SabujaSwarna	All staff	2	1000
Popular Articles				
Book Chapter				
Extension Pamphlets/literature				
Technical reports	Annual progress Report & Annual Action Plan	All staff	5	5
Electronic Publication (CD/DVD etc)				
TOTAL			8	1505

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
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1.	Hands on Training programme	Basic application of RS and GIS in Agriculture and allied fields	Er. Suchismita Dwivedy Scientist, Agril. Engg.	01-31.01.2021 (7 days/Month)	Geospatial Technology Center, OUAT, Bhubaneswar
2.	Hands on Training programme	Basic application of RS and GIS in Agriculture and allied fields	Mrs. Snigdha Pattanayak SMS, Agrometeorology	01-31.01.2021 (7 days/Month)	Geospatial Technology Center, OUAT, Bhubaneswar
3.	Online Training programme	Empowering women in Agriculture	Mrs. Gitanjali Subudhi Scientist, Home Science	22-24.07.2021	EEL, Hyderabad and MANAGE, Hyderabad
4.	Online Training programme	Strategies for climate riskmanagement and resilient farming	Er. Suchismita Dwivedy Scientist, Agril. Engg Mrs. Snigdha Pattanayak SMS, Agrometeorology	20 - 24.11.2021	CRIDA, ICAR

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	Mrs. Sini Jena
Address	At-Anlamada, GP- Gunthuni, Block- Khandapada
Contact details (Phone, mobile, email Id)	9348476039
Landholding (in ha.)	2
Name and description of the farm/ enterprise	Mushroom Production
Economic impact	She earns Rs25,000/- to 32,000 per 28 days income from mushroom production
Social impact	Now she is maintaining a good social life and she has planned for another establishing a cool chamber for storage of mushroom.
Environmental impact	Spent mushroom substrate can be utilized for vermicompost production.
Horizontal/ Vertical spread	81%

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)

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

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

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 (inRs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
	90	90	270	28	-

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	30	-	-	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
Awareness campaign on bio-control of pests	2	100	Bio-control in sugarcane
Farmers-scientists interaction	2	200	
Exhibition	1	100	
Film show			
Soil health Awareness campaign	0	0	-
Road show	0	0	
Diagnostic Practical's			
Distribution of Literature (No.)	1	100	
Distribution of Seed (q)			
Distribution of Planting materials (No.)	2	565	Papaya, chilly, tomato, cabbage
Bio Product distribution (Kg)			
Bio Fertilizers (q)	-	-	-
Distribution of fingerlings (No)			
Animal health camp	1	50	-
Total number of farmers visited the technology week	0	530	

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

No of student trained	No of days stayed
6	0

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
20.01.2021	Prof. Pravat Kumar Sarangi ADR, RRTTS, Bhubaneswar	Monitoring of KVK
20.01.2021	Prof. AmreshKhuntia Joint Director (Video Project) & Nodal Officer (DAMU)	Monitoring of KVK

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)
Low cost poly tunnel for Vegetable nursery	20	50%	1,50,000	3,00,000
Production of paddy straw mushroom by using crumbled straw	50	85%	1,55,000	2,85,000

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)

Technology demonstrated	Horizontal spread of technology		
	No. of villages	No. of farmers	Area in ha
Green manuring in direct seeded kharif rice	28	280	250
Varietal substitution in rice	31	205	350
Pyara cropping of field pea	17	209	137
Cultivation of high yielding variety of Papaya	19	36	24
Introduction of improved EFY Var. Gajendra	18	208	15
Crop substitution with arrowroot.	34	215	68
Integrated pest management in rice	12	171	118
Sugarcane varietal intervention	10	100	15
Biological control of sugarcane borers	32	263	198
Bee keeping for rural farm women	15	37	121 Units
Marigold cultivation	18	25	25
Finger millet cultivation for kharif upland utilization	10	20	12
Integrated pest management in brinjal	17	159	99
Microbial control of tomato fruit and shoot borer	17	85	45

Freshwater prawn culture	19	58	37
Ornamental fish culture	7	21	185Unit
Pond based farming system	22	87	33
Backyard poultry rearing	35	97	67 units
Use of maize sheller for drudgery reduction	20	112	112 units
Use of ragi thresher for drudgery reduction	12	74	35 units
Use of self propelled rice transplanter	25	250	50
Use of low cost solar dryer for drying mushroom drying	10	10	10 units
Introduction of Elephant Foot Yam var. Gajendra	24	240	12
Varietal substitution by high sucrose content variety	7	31	10
Growing of bamboo raised through culm cutting method	17	45	35
Growing of <i>Acacia mangium</i>	8	63	6

Give information in the same format as in case studies

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	Bio fertilized rice, CR 311(Mukul), Medium duration (120-125 days), semi-dwarf plant type (110 cm) with long bold grain and good cooking and eating quality	The biofertilized rice has high protein content with highly nutrient rich variety.	CR Dhan 311 (Mukul) with high protein (10.1%) and moderately high Zn (20 ppm).
2	Sugarcane var: Charchika has been introduced to farmers for high sucrose content which is a good variety for sugarcane jaggery preparation.	Less incidence of red rot disease which is a major problem in sugarcane.	Such variety having yield of 110t per ha.
3	Poultry bird Kadaknath in backyard system for farm women.	Good income generating activity for rural farm women.	Body weight in 4 month is 1.05kg.
4	Tomato Staking will be done in the vertical manner with fish net as staking material with 100 micron Grey-black polythene for mulching	High yielding variety and good keeping quality. Weed control and moisture conservation can be done by using plastic mulching.	Yield upto 15kg per plant having good keeping quality upto 10-15 days in ambient condition.
5	Stocking of "Java Punti" fingerlings @2000nos/ha. along with IMC fingerlings with proper management. (Duration of Java Punti as Intercrop- 5months, Duration of Major crop IMC-10months	Availability of seed needs improvement and auto breed seen in ponds	Yield is upto 22.1q/ha with body weight of 820g (IMC-10Month)380g (Java-5month)

4.4. Details of innovations recorded by the KVK

Thematic area	Farm Mechanization
---------------	--------------------

Name of the Innovation	Paddy thresher cum winnower
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 attached to a 1 hp motor to run.
Technology details	The paddy thresher cum winnower is a motor operated implement can use for threshing as well as winnowing of paddy having the capacity of 25 q per hr.
Practical utility of innovation	The implement saves time as well as labour as compared to manually threshing and winnowing process.

Thematic area	Farm Mechanization
Name of the Innovation	Pwertiller attached rice mill
Details of Innovator	The innovator is basically a progressive innovative farmer of the district. He owns about 7 ha of cultivatable land. He cultivates paddy, pulses, maize, groundnut and vegetables.
Back ground of innovation	He got the technical support from KVK scientist as well as the line department to attach a huller to the power tiller for multi purpose use.
Technology details	The implement is run by the power of power tiller. The hulling attachment to the PTO power of power tiller and 15 hp power tiller can help to run the machine with milling of capacity 20q per her.
Practical utility of innovation	Such type of arrangement can help the people to hull the rice at door step easily.

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Mushroom Production
Name & complete address of the entrepreneur	Mrs. Janaki Sahoo, At/Po-Balugaon, , Dist-Nayagarh
Role of KVK quantitative data support:	Start-Up Incentive of Rs. 10,000/
Timeline of the entrepreneurship development	3 years
Technical Components of the Enterprise	Training programmes, Exposure visit, Practical and demonstration
Status of entrepreneur before and after the enterprise	Average net income after intervention per month Rs.38,000/- Average net income before intervention per month Rs12,000/-
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Now she is maintaining a good social life and she has planned for another 150-200 nos of mushroom beds per day. Marketing of the produce is at her doorstep and also neighboring districts.
Horizontal spread of enterprise	59.2%

Entrepreneurship development	
Name of the enterprise	Backyard poultry rearing
Name & complete address of the entrepreneur	MrAjitdalabehera, At- Balugaon, Block-Nayagarh, Dist: Nayagarh
Role of KVK quantitative data support:	Start-Up Incentive of Rs. 10,000/
Timeline of the entrepreneurship development	3 years
Technical Components of the Enterprise	Training programmes, Exposure visit, Practical and demonstration

Status of entrepreneur before and after the enterprise	Average net income after intervention per month Rs.22,500/- Average net income before intervention per month Rs. 10,205/-
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	This year he planned to make a project of production 1700 birds per annum with establishing a hatchery unit.
Horizontal spread of enterprise	55.2%
Entrepreneurship development	
Name of the enterprise	Stunted Fingerlings Production
Name & complete address of the entrepreneur	Mr Santosh Kumar Swain, At- Kijhar, Block- Khandapada
Role of KVK quantitative data support:	Start-Up Incentive of Rs. 10,000/
Timeline of the entrepreneurship development	3 years
Technical Components of the Enterprise	Training programmes, Exposure visit, Practical and demonstration
Status of entrepreneur before and after the enterprise	Average net income after intervention per month Rs.32,500/- Average net income before intervention per month Rs. 13,200/-
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	This year he planned to make a project of production 1700 birds per annum with establishing a hatchery unit.
Horizontal spread of enterprise	51.2%

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
NRRI, Cuttack	Procurement of agro-ecosystem based paddy varieties for popularization
CTMRT-OUAT, BBSR	Exposure visit Mushroom production
CARI, CPDO, IPDP	Procurement of day old vanaraja poultry chicks
CIMMYT	Popularization of climate resilient maize hybrids
IRRI, Cuttack	Demonstration of stress tolerant paddy varieties
Odisha Livelihood Mission	FPO Group Formation, Poultry chicks & mushroom spawn distributed to the farmers through OLM, Technical support provided them towards preparation of waste decomposer, also technical support provided to the farmers towards organic farming & Technical support given to F/FW for mushroom production & value addition from green mangos
Deptt. Of Veterinary and Husbandry	Joint verification of newly established poultry units
Deptt. Of Horticulture	Joint survey for GI tagging on Kantemundi Brinjal Resource person on Mushroom & vegetable cultivation & value addition in different blocks of Nayagarh district Joint physical verification of banana sucker and lemon seedling
Deptt. Of Fishery Sc	For Fish production, Establishment of hatching unit
HAMS (NGO), Nayagarh	Resource person on dry foods and snacks preparation, value addition on

	vegetables, fruits and mushrooms and mushroom production.
ATMA, Nayagarh	BGREI Monitoring and Field visit

5.2. List of special programmes undertaken during 2021 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.)
PCRA	Awareness cum training program for petroleum conservation	September 2021	Ministry of Petroleum Conservation	28,000/-

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, Arkarashkhyak, Arka Samrat, VNR 405, Kailash	Brinjal tomato cauliflower, Marigold, Cabbage, Chilli Broccoli	56824	45,220	294764	
2.	Vermicompost	2010-11	1 unit		Vermicompost	82 kg	1054	18150	
3.	Mushroom spawn production	2010-11	50	OSM-11	PSM and Oyester Spawn	12315	38471	1,84,725	
5.	Backyard Poultry	2016-17	120	Vanaraja		2606	58475	182420	
6	Fish Pond	2016-17	1 acre	Amur, Jvapunti, Rohu, Mrigal	Fish fingerlings	44000	22000	42580	

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	
Sugarcane(Ratoon)	21.02.2021	26.12.2021	0.2ha	Sabita	Setts	6.5 ton	9000	17615	

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.	Vermi-compost	82kg	1150	22570	Increases soil aeration and water holding capacity

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.	Chicks	Vanaraja	21 days old Chicks	3132	70512	2,19,240	Fast growing
2.	IMC	-	-	50000	25000	48250	Stunted fingerlings

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 2021	25	04	
Total:	25	04	

(For whole of the year)

6.6. Utilization of staff quarters

NOT AVAILABLE

Whether staff quarters has been completed:

No. of staffquarters: No

Date of completion:

Occupancy details:

Months	Q I	Q II	Q III	Q IV	Q V	Q VI

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 1 st April, 2021
	Kharif	Rabi	Kharif	Rabi	
Mustard	60,000			60,000	Unspent balance as on – 31.03.2021

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

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

Pegionpea	48,522			48,522	Unspent balance as on – 31.03.2021
					7043

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

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances			
2	Traveling allowances	1,20,000	90,000	22,604
3	Contingencies			
A	OE&POL			
B	Training	11,50,000	8,90,000	9,94,656
C	FLD			
D	OFT			
E	SCSP	9,00,000	6,75,000	4,84,441
F	HRD	30,000	22,500	-
G	Swachhta Expenditure	20,000		-
TOTAL (A)		22,20,000	16,77,500	15,01,701
B. Non-Recurring Contingencies				
1	Library	10,000	10,000	-
2	Equipment & Furniture	2,20,000		-
3	Internal Farm road	3,00,000		-
TOTAL (B)		5,30,000	10,000	
C. REVOLVING FUND				4,27,037
GRAND TOTAL (A+B+C)		27,50,000	16,87,500	19,28,738

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2019-20	2,69,714	1,67,994	2,78,715	1,43,627
2020-21	1,40,185	13,60,554	10,26,771	1,74,810 (Profit money Rs.3,00,000/- deposited to DEE, OUAT)
2021-22	1,77,810	5,35,456	4,27,037	2,86,229

7.6. (i) Number of SHGs formed by KVKs: 19

(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

(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	12	Kharif, 2021	-	12	-
Field Day	02	Kharif and Rabi 2021	02	-	-

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	2 nd week of August	1000	-	Field visit and recommendation of suitable control measures

Sheath Blight	Paddy	1 st week of Sept.	800	-	Conducted demonstration, field visit and recommended of suitable control measures
Root rot	Greengram	1 st week December	300	-	Field visit and recommendation of suitable control measures
BLB	Paddy	2 nd 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	2 nd week of December	20	-	Application of cypermethrin and dimethrin to control argulous in pond

9.1. Nehru YuvaKendra(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

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/ SMSPortal)

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

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	115589
2.	No. of farmers registered in the portal	
3.	Mobile Apps developed by <i>KVK</i>	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	

9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
19.08.2021(1 day)	Vermicompost production from crop residues
23.09.2021(1 day)	Segregation of bio degradable from non-biodegradable
12.11.2021(1 day)	Cleaning of school campus

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office		
2. Basic maintenance		
3. Sanitation and SBM		
4. Cleaning and beautification of surrounding areas		
5. Vermicomposting/ Composting of biodegradable waste management & other activities on		

generate of wealth for waste		
6. Used water for agriculture/ horticulture application		
7. Swachhta Awareness at local level		
8. Swachhta Workshops		
9. Swachhta Pledge		
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)		
14. No of Staff members involved in the activities		
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
Total		

9.6. Observation of National Science Day

Date of Observation	Activities undertaken
28.02.2021	National Science Day programme was organized by Krishi Vigyan Kendra, Nayagarh on dt.28.02.2021 involving 30 nos of school students of Govt. Girls High School, Nayagarh

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
Abasika School, Nayagarh	16.08.2021	250	Picco projector

Give good quality 1-2 photograph(s)

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

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	3	3	150	2	Sarapancha & Jilaparisad

9.10. Details of Mahila Kisan Divas programme (15.10.2021) organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Women in Agriculture Day	1	50	-	-

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1.	Mr Santosh Mohanty	At-Sarapada, Bl-Nayagarh, 8763500290	Banana Cultivation
2.	MrBrajabandhuDas	At-Bankatara, Block-Odogaon, 7751899680	IFS
3.	MrChakradhara Jena	At- Kantabania, Bl-Nayagarh, 8260629965	IFS
4.	MrSubaskumar Sahoo	At-Balabhadrapur,Bl-Nuagaon 9777884547	IFS

9.12. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Trg hall charge	2650	FIAC,BTT CONVENOR

9.13. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1	PCRA	AWARENESS	MINISTRY OF PETROLEUM	28,000	NIL

9.14. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
16.02.2021	IMD	Functioning

9.15. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Odisha	Nayagarh	ICM	5	52	1. KVK Nayagarh has organized 5 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 nursesey raising.

Institutional interventions

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

Capacity building

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

Extension activities

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

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK

Sl. No.	Name of the Award	Year	Conferring Authority	Amount	Purpose
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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. Chakradhar Jena	2021	KVK	-	Progressive IFS and fish farmer

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

- KVK has applied project proposal on Livelihood Business Incubation (LBI) Centre on Sugarcane JAGGERY PREPARATION under A Scheme For Promoting Innovation, Rural Industry & Entrepreneurship(ASPIRE) of Ministry of MSME.
- The documents for Geographical Indications(GI) tagging of *NayagagrhKanteimundi brinjal* have been finally submitted and approved by Technology Management Cell, OUAT.

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

Sl. No.	Name of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position	Success indicator
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							(Rupees in lakh)	
1	Rankadeuli Farmers Producer Organization	Reg.U011100R2018 PTC029369	HouseNo-42, At-Lunisahi, Block- Ranapur Dist- Nayagarh	Mini oil extractor for Oil extraction(mustard), Vegetable production, Organic Paddy cultivation	Mustard, paddy	400	5.0	Oil Extraction unit
2	Ladubaba Farmers Producer Organization	Reg:U01403OR2015 PTC019420	At-Beguniapatna, PO-KalikaPrasad,GP - Khuntubandha,Block/Dist-Nayagarh,,	Vegetable production and marketing in local market.	Vegetables	927	4.5	Exporting Vegetable to other district
3	Gaurangapur Farmers Producer organization	Reg.U011000R2018 PTC029494	At-Purunabasantapur, Po-GourangapurBlock-Ranapur, Dist-Nayagarh	Vegetable production Organic Paddy cultivation	Vegetables and paddy	230		Exporting Vegetable to other district
4	Gadajata Farmers Producer organization		At: Nuagaon, Block: NuagaonNayagarh-752083	Vegetable, Moong, Dal, Rice and value addition	Value added products of pulses	180		Exporting Vegetable to other district





16. Integrated Farming System (IFS)



Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
1	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

17. 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	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology

			adoption of the technology		
1	Demonstration on preparation of value added products of Mahua	Dried and roasted Mahua flower will be grinded. Ragi flour, sesame seeds, cashew nut will be roasted with ghee, and added to jaggery along with roasted mahua flower in the pan to make ladoos. Also cardamom powder will be added to enhance the flavor	182	10	 
2	Demonstration on Mushroom cultivation by using crumbled straw	Production of paddy straw mushroom with crumbled straw	93,500	10	
3.	Demonstration of Minor barb carp as intercrop in Aquaculture	Stocking of “Java Punti” fingerlings @2000nos/ha. along with IMC fingerlings with proper management. (Duration of Java Punti as Intercrop-5months, Duration of Major crop IMC-10months	1,85,400	10	

4.	Demonstration of duck rearing in polythene ponds	Soil Treatment with T.viridae @ 5kg/ha with 60kg FYM, Seed treatment with Vitavax Power @ 2g/kg seed, roguing of the infected plants, soil drenching with vitavax power @ 2g/lt at the spot and application of (Cyamoxil + Mncozeb) fungicide	31,500	10	
5.	Demonstration on production of Marigold	Transplanting of marigold seedling at spacing 60x45 cm, topping of apical shoots at 15 days interval three times to induce branches, application of DAP+Potash 50gram each/plant before flowering and after flowering.	18863	10	

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

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

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

Thematic area of training	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	

19. 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

20. Specific programmes for the period

i. Achievements in SCSP (Scheduled Caste Sub-Plan) (Specific for SC farmers only)

Sl. No.	Activity	No. of SC farmers/ stakeholders		
		Male	Female	Total
1	On- farm trials	50	30	80
2	Frontline demonstrations	170	50	220
3	No. of Training programmes for farmers	-	-	19
4	Farmers trained	278	197	475
5	No. of Training programmes for Extension Personnel	-	-	03
6	Extension Personnel trained	40	20	60
7	Participants in extension activities(Jal Shakti Abhiyan)	32	18	120
8	Distribution of seed	78	42	250
9	Planting material distributed	60	28	3800
10	Livestock strains and fingerlings distributed	50	18	20000
11	Soil, water, plant, manures samples tested	45	25	1500
12	Mobile agro-advisory provided to farmers	3254	1987	5241
13	Other (Please specify)Exposure Visit	25	15	40

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

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

iii. Status of Natural Farming

Crop/ Commodity involved in Natural farming	Area covered under such farming (ha)	No. of farmers practicing Natural farming at present	Details of individual farmers (Name and Contact No.)	Organic component/ inputs used for such farming
Banana	10	38	Mr Santosh Mahanty, 8763500290	Banana dried leaves

iv. Farmer Producer Organizations

a) General information

Sl. No.	Name & Address of FPO	Name & Contact No. of Head of FPO	No. of farmer members of FPO			Crop/ Enterprise dealt with by FPO	Kind of support provided by KVK in running/ starting of FPO (in brief)
			M	F	T		
1	RANKADEULI FARMERS PRODUCER ORGANISATION House No-42, At-Lunisahi,	Mr Chhatia Pradhan, 9178779885	250	150	400	Mini oil extractor for Oil extraction(mustard), Vegetable production, Organic Paddy	Training and Demonstration Technical guidance for production of mustard,vegetables, biofertilized rice cultivation to members District level Monitoring Committee members

	Block- Ranapur Dist- Nayagarh					cultivation	
2	LADUBABA FARMERS PRODUCER ORGANISATION At-Beguniapatna, PO- KalikaPrasad,GP- Khuntubandha,Bloc k/Dist-Nayagarh,,	Mr Purusotta m Sahoo 94379054 38	5 2 5	4 0 2	92 7	Vegetable production and marketinginlocalmar ket.	Technical guidance for vegetable production round the year. Different need based PP chemicals and ITK method for pest and diseases are provided for vegetable cultivation.
3	GAURANGAPUR FARMERS PRODUCER ORGANISATION At- Purunabasantapur,P o-Gourangapur, Block-Ranapur, Dist-Nayagarh	Mr Binayak ch Behera 91785083 13	1 2 5	1 0 5	23 0	Vegetableproduction ,OrganicPaddy cultiv ation	Technical guidance for mustard and vegetable cultivation. This FPO is introduced with BPH resistant rice Var-Hasant
4	GADAJATAFAR MERSPRODUCER ORGANISATION At: Nuagaon, Block: NuagaonNayag arh-752083	Mob:9777 230088	5 7	1 2 3	18 0	Vegetable,Moong,D al,Rice and value addition	Technical guidance for pulse and vegetable cultivation, value addition

b) Financial information

Name & Address of FPO	Date of Registration	FPO Registe red (Y/N)	Applicat ion Submitt ed for Registra tion (Y/N)	No. of share- holdin g farme r memb ers	Equit y Amou nt Collec ted (Rs.)	Bank Acco unt Open ed (Y/N)	Board Reconstit uted after attaining minimum members hip (Y/N)
RANKADEULI FARMERSPRODU CER ORGANISATION House No-42, At-Lunisahi, Block- Ranapur Dist- Nayagarh	Reg.U01110OR2018 PTC029369	Y	-	-	-	Y	Y
LADUBABA FARMERS PRODUCER ORGANISATION At-Beguniapatna, PO- KalikaPrasad,GP-	Reg:U01403OR2015 PTC019420	Y	-	-	-	Y	Y

Khuntubandha,Block /Dist-Nayagarh,,							
GAURANGAPUR FARMERS PRODUCER ORGANISATION At- Purunabasantapur,Po -Gourangapur, Block-Ranapur, Dist-Nayagarh	Reg.U011000OR201 8PTC029494	Y	-	-	-	Y	Y
GADAJATAFAR MERSPRODUCE RORGANISATIO N At: Nuagaon, Block: NuagaonNayaga rh-752083		Y	-	--	-	Y	Y

v. Nutri-gardens (Village wise)

Sl. No.	Name of village	Name of crop	Area under the crop (acre)	No. of farmers			Whether bio-fortified variety of crop used (If yes, mention variety & crop)
				M	F	T	
1	Kosakata	Vegetable crops	10	25	15	40	Sweet potato, Var-Bhusona

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

Name of KVK	Total budget allotted (Rs.)	Total budget utilized (Rs.)	Physical Training organized			Online Training organized				
			No. of training	No. of total participants		No. of training	No. of total participants			
Nayagarh				M	F	T		M	F	T
	4500	4500	1	0	20	20	-	-	-	-
	1875	1875	1	0	25	25	-	-	-	-

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

Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants
1	Jal Shakti Abhiyan	22 April to 30 Nov 2021	KVK Campus and Farmers field	Efficient use of Water farming	500

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

PHOTOGRAPHS



Latitude: 20.21509
Longitude: 85.173421
Elevation: 116.54±4 m
Accuracy: 2.2 m
Time: 12-31-2021 12:12

Assessment of bacterial wilt resistant Brinjal varieties



Assessment on production of sweet Potato varieties



Assessment of Vermicompost production from different substrate



Assessment on Performance of Improved carp "Amur" in carp polyculture



Assessment of mushroom spawn production in polypropylene bag



Assessment on Tractor Operated Seed drill for DSR (Direct seeded of rice)



Assessment on preparation of Sugarcane Jaggery



FLD on Sheath blight mgt. in rice



FLD on Value addition of Mahua



FLD on Mechanized Pulse Thresher



FLD on Sugarcane Var: Charchika



FLD on Bio-Fertified rice CR311



Shikharapur, Odisha, India
 Nayagarh - Khandapada Rd, Shikharapur, Odisha 752083, India
 Lat 20.228725° Long 85.149499°
 30/10/21 10:59 AM

FLD on production of tomato through staking and plastic mulching



FLD on Finger Millet for SHGs



FLD on Minor barb as intercrop in aquaculture



FLD on Freshwater Prawn with Carp (Grass Carp)



FLD on Duck Rearing in Polythene Pond



FLD on Leaf Curl Management in Tomato



FLD on Marigold cultivation



FLD on poultry bird Kadaknath in backyard system



FLD on Scientific Apiculture Cultivation by SHG



FLD on Finger Millet for SHGs

OTHER EXTENSION ACTIVITIES



Nutri-garden & Tree Plantation Campaign



Convergence activities

Dignostic Field visit of SS&H and Scientist



National Horticultural Fair 2021

World Soil Day



Farmers Scientist interaction during World Fisheries Day



Constitution Day



Women in Agriculture Day



Animal Health Camp



Live Telecast program on Natural farming



National Mushroom Day



Jal Shakti Abhiyan Awareness programme under SCSP



Training programme on Jalashakti Abhiyan



Agricultural workshop on PCRA



International Millet Year

Women in Agriculture Day

Sd/-
Dt: 14.02.2022
(ANIL KUMAR SWAIN)
Sr. Scientist & Head
KVK, OUAT, Nayagarh