

# ANNUAL PROGRESS REPORT

(January 2022 to December 2022)



**KrishiVigan Kendra, Angul, Odisha**  
**ICAR-ATARI, Kolkata**  
**Zone-V**

**Odisha University of Agriculture & Technology, Bhubaneswar**

**ANNUAL PROGRESS REPORT 2022 (JANUARY 2022 - DECEMBER 2022)**  
**KVK, ANGUL**

**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	
KVK, Angul At: Panchamahala P.O: Hularisingha District: Angul PIN: 759132 Odisha	-	-	<a href="mailto:kvkangul.ouat@gmail.com">kvkangul.ouat@gmail.com</a>

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 At: SiripurChowk, Bhubaneswar-3, ODISHA	0674- 2397424	0674-2397818	<a href="mailto:registrarouat@gmail.com">registrarouat@gmail.com</a>

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Debasis Mishra	-	9438357962 7978431371	<a href="mailto:demishra74@gmail.com">demishra74@gmail.com</a>

1.4. Year of sanction of KVK: 25<sup>th</sup> March 1995

1.5. Staff Position (as on 1<sup>st</sup> January, 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/Temporary	Category (SC/ST/OBC/ Others)
1	Senior Scientist& Head	Dr. Debasis Mishra	Senior Scientist & Head	Plant Protection	79800-211500 (89800)	04.06.2021	Permanent	Others
2	Subject Matter Specialist	Dharitri Patra	Scientist	Home Sc.	57700-182000 (89800)	20.06.2018	Permanent	Others
3	Subject Matter Specialist	Dr. Gyanranjan Sahoo	Scientist	Forestry	57700-182000 (79800)	06.10.2015	Permanent	OBC
4	Subject Matter Specialist	Dr. Tiryak Kumar Samant	Scientist	Agronomy	15600-39100 (23070+ 6000)	12.12.2012	Permanent	Others
5	Subject Matter Specialist	Dr. Monalisa Behera	Scientist	Animal Sc.	15600-39100 (20590+ 6000)	23.07.2015	Permanent	SC
6	Subject Matter Specialist	Dr. Ipsita Mishra	Scientist	Pl. Protection	15600-39100 (20590+ 6000)	06.11.2015	Permanent	Others
7	Subject Matter Specialist	Vacant						
8	Programme Assistant	Rashmi Prabha Mishra	Programme Assistant	Fishery	35,400-1,12,400 (47600)	30.07.2012	Permanent	Others
9	Computer Programmer	Biswajit Pradhan	Programme Assistant (Computer)	Computer Sc.	35,400-1,12,400 (56900)	04.06.2021	Permanent	OBC
10	Farm Manager	Dr. Tamalika Sarangi	Farm Manager	Nematology	35,400-1,12,400 (12430+4200)	05.02.2015	Permanent	Others
11	Accountant / Superintendent	Vacant		-				
12	Stenographer	Gyana Ranjan Das	Junior Steno-cum-Computer Operator	-	25500-81100 (39800)	04.06.2021	Permanent	Others
13.	Driver	Soumendra Kumar Mishra	Driver-cum-Mechanic	-	19900-63200 (27600)	17.06.2013	Permanent	Others
14.	Driver	Biswanath Parida	Driver-cum-Mechanic	-	19900-63200 (27600 )	14.07.2014	Permanent	Others
16.	Supporting staff	Rabi Parida	Peon-cum-Watchman	-	16600-52400 (23600)	02.08.2008	Permanent	Others

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	0.5
2.	Under Demonstration Units	0.4
3.	Under Crops	3.0
4.	Orchard/Agro-forestry	7.0
5.	Others with details	4.7
	<b>Total</b>	<b>15.6</b>

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					✓	688.65	Yes	ICAR
2.	Farmers Hostel					✓	304.71	Yes	ICAR
3.	Staff Quarters (6)					3 Nos.		Yes	ICAR
4.	Piggery unit	✓							
5	Fencing			✓					RKVY
6	Rain Water harvesting structure	✓							
7	Threshing floor					✓	185.80	No (since 5 years. Needs repairing)	ICAR
8	Farm go-down						15.60		
9.	Dairy unit	✓							
10.	Poultry unit					✓	13.93	Yes	ICAR
11.	Goatary unit	✓							
12.	Mushroom Lab					✓	13.38	Yes	RKVY
13.	Mushroom production unit					✓	16.00	Yes	ICAR
14.	Shade net house	✓							
15.	Soil test Lab					✓		Yes	ICAR
16	Apiary unit					✓		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	2017	7,04,162	69,860	Running
TATA Sumo	2003	8,47,041	2,10,150	Not functional
Bajaj Kawasaki 4S Champion	1996	31,282	36,823	Not functional
Bajaj boxer CT-K-Tech	2002	34,990	35,059	Not functional
Tractor	2003	6,33,000	1614 hrs.	Not functional

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
<b>a. Lab equipment</b>				
Counter balance (10 kg cap)	05.10.00	780	Damaged	ICAR
Spring balance (100 kg cap)	08.10.00	570	Damaged	ICAR
Sewing machine	31.03.04	2,980	Damaged	ICAR
Mixture grinder	28.03.04	2,990	Damaged	ICAR
Refrigerator	31.03.07	9,000	Good	ICAR
Microprocessor based pH meter	31.03.07	19,463	Good	ICAR
Hot air oven	31.03.07	7,650	Good	ICAR
Digital analytical balance	28.03.07	1,14,750	Good	ICAR
Hot plate	28.03.07	2,475	Good	ICAR
Micro controlled based conductivity meter	31.03.07	11,090	Good	ICAR
Micro controlled based conductivity meter	31.03.07	32,976	Good	ICAR
Centre fuge	26.03.07	10,688	Good	ICAR
Seive size 30 mesh	31.03.07	450	Good	ICAR
Seive size 60 mesh	31.03.07	450	Good	ICAR
All purpose stirrer REMI make	31.03.07	4,580	Good	ICAR
Water bath	23.03.07	10,688	Good	ICAR

Digital spring balance	23.03.07	563	Good	ICAR
Binocular microscope	28.03.07	21,769	Good	ICAR
Triple distillation set	23.03.07	24,750	Good	ICAR
Gas with accessories	31.03.2011	5,483	Good	RKVY
Autoclave	31.03.2011	69,750	Good	RKVY
Laminar Air flow	31.03.2011	55,125	Good	RKVY
Hot Air Oven	31.03.2011	15,000	Good	RKVY
Iron Rack (1 No.), Lavatory Table (1 No), Revolving stool (1 No.), Lavatory Stool (1 no)	31.03.2011	19,900	Good	RKVY
Electronic Balance (1 no.)	31.03.2011	5,460	Good	RKVY
Refrigerator	31.03.2011	18,600	Good	RKVY
B.P. One Monitor	31.03.2016	2,610	Good	ICAR
<b>b. Farm machinery</b>				
<b>c. AV Aids</b>				
Camera Pentax 50 mm	30.03.1996	17,780	Out of order	ICAR
Overhead projector (Photophone)	13.03.1999	14,980	Out of order	ICAR
Desk top computer	20.02.2001	40,000	Not functional	ICAR
Inkjet printer	27.03.2002	4,990	Damaged	ICAR
P.A cassette amplifier	29.03.2004	3,390	Good	ICAR
Microphone	30.03.2004	580	Good	ICAR
Microphone stand	30.03.2004	330	Good	ICAR
Sound box	30.03.2004	1,875	Good	ICAR
Desk top computer	30.03.2006	37,500	Good	ICAR
Dot matrix printer	30.03.2006	10,690	Damaged	ICAR
Multifunctional laser jet	25.03.2006	25,272	Damaged	ICAR
Photo copier	25.03.2006	48,900	Damaged	ICAR
U.P.S	31.03.2006	3,500	Damaged	ICAR
Web camera	31.03.2006	865.40	Damaged	ICAR
L.C.D Projector	30.03.2006	49,899.99	Damaged	ICAR

D.V.D player	30.03.2006	2,989	Good	ICAR
Pen drive	31.03.2007	1,250	Damaged	ICAR
Colour T.V	31.03.2007	11,200	Good	ICAR
Laptop	31.03.2007	48,900	Not functional	ICAR
HP Laser Jet 1020 Plus Printer	10.01.2012	6,500	Good	ICAR
Digital Camera	31.03.2012	19,600	Not functional	ICAR
Desktop Computer	31.03.2012	39,520	Good	ICAR
Printer Samsung SCX 3401	31.03.2012	8,528	Good	ICAR
UPS for computer (Make Uniline)	31.03.2012	1,404	Good	ICAR
Web Camera	31.03.2016	6,600	Good	ICAR
Desktop Computer	31.03.2016	44,500	Good	ICAR
Digital Camera	31.03.2017	17,900	Good	ICAR
Desktop Computer (Make-Dell)	31.03.2017	44,500	Good	ICAR
Laptop (Make –HP)	31.03.2017	48,000	Good	ICAR
Desktop Computer (Make-Dell) 2 nos	31.03.2018	99,000	Good	ICAR
Laptop (Make – Dell)	31.03.2022	49,540	Good	ICAR

## D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Diesel pump 3.5 HP	09.03.1999	19,500	Out of order	ICAR
Maruti sprayer (12 lit cap)	27.03.1999	4,874	Damaged	ICAR
Maruti sprayer (9 lit cap)	27.03.1999	3,990	Good	ICAR
Knapsak sprayer 16 lit cap.	27.03.1999	2,610	Good	ICAR
Jubilee duster	27.03.1999	2,300	Damaged	ICAR
Sprayer Brass	30.03.2002	690	Damaged	ICAR
Sprayer 5 lit cap	25.02.2006	600	Damaged	ICAR
Tulu pump 1` HP	19.01.2007	4,651	Damaged	ICAR
Automatic soil augur	31.03.2007	40,420	Good	ICAR
0.5 hp Monoblack Pump for Model	11.06.2012	3,229	Not functioning	ICAR
Brush Cutter and Tap & go (Make-Honda)	05.10.2012	26,000	Good	ICAR

1 no				
Water Pump (Make –Honda) (1 no.)	05.10.2012	22,450	Good	ICAR
Sprayer	05.08.2013	1,850	Good	ICAR
Chaff Cutter	19.03.2016	22,500	Good	ICAR
Ladder (Aluminium) 1 no	31.3.2016	8,500	Good	ICAR
Honeybee box	31.3.2016	5,375	Good	ICAR
Rotavator	31.03.2017	1,00,000	Good	ICAR

### 1.8. Details of SAC meeting\* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	21.12.2022	26	A new herbicide for Maize may be tested	Tembotrione 34.4% SC as post-emergence was assessed in maize crop	
			New generation pesticides like Spinetoram 11.7 % SC for managing DBM in cole crops should be assessed	New generation pesticide Spinosad 45% SC was demonstrated during Kharif 2022 against managing DBM in cole crops	
			Popularization of pulses like Field pea and Bengal gram as paira crops to be undertaken	Included in OFT on assessment of INM in rice-pea paira cropping system during 2023-24	
			KVK should conduct different trainings related to judicious use of water for various crops	Conducted Awareness programme & Kisan mela under Jala Shakti Abhiyan during 2022-23 covering 300 farmers in 2 different villages	
			Popularization of millets in the district through trainings and awareness should be undertaken	One awareness programme on importance of millets and its value addition was organized during Millet Diwas, 2022	
			KVK to promote organic cultivation of cabbage & cauliflower and the effort to be directed for promotion of new fruit crops like apple ber, dragon fruit etc.	<ul style="list-style-type: none"> <li>➤ KVK is conducting awareness programme, trainings &amp; demonstrations under “Out Scaling of Natural Farming through KVKs” project</li> <li>➤ Unit of dragon fruit is being established in KVK</li> </ul>	
			Azolla as a fodder for sustainable livestock management should be promoted	An Azolla unit has been established in KVK campus and method demonstration on its cultivation was included in SCSP programme	



			2022	
		Instead of conducting 1 ha FLD on cultivation of Greengram in Rice-fallow, the area and number of participants may be increased	Demonstration on management of 25 ha Rice-fallow area with Rice-Greengram cropping system in two villages of the district has been initiated under Rice-fallow management project of Govt. of Odisha	
		Exposure visit of the trainees to progressive farmers' fields should be undertaken for successful technology dissemination	Exposure visit of 60 trainees to ICAR-CHES & CTCRI was organized during 2022 under SCSP programme	
		Under Agro-forestry, minimum 3 crops including spices may be taken as intercrops	Turmeric, Pineapple and Yam are being popularized as intercrops in Mango orchards	
		Fingerling production should be emphasized in KVK farm.	A total of 74,000 advanced fry/fingerlings of IMC/ Amur carp/ GIFT Tilapia were produced under RF	
		Actively involved SHGs under OLM should be selected for different capacity building programme.	A total of 08 nos. of actively involved WSHGs have been selected and trained on Value addition of fish (under an SCSP project sponsored by ICAR-CIFT), Colour fish production & Poultry rearing	
		Documentation of success stories and videos of successful farmers should be done and uploaded in social media.	A total of 04 numbers of video documentation of successful farmers on the domains of "Vegetable farming, IFS and Bee-keeping" were done & telecasted in "AMA CHAASA" of DD-Odia	

*\* 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 (2022)

Sl. no.	Item	Information
1	Major Farming system/enterprise	<ul style="list-style-type: none"> <li>• Crop + vegetable + dairy</li> <li>• Crop + orchard + mushroom</li> <li>• Crop + vegetable + floriculture + dairy + pisciculture</li> <li>• Crop + poultry + goatery + mushroom + pisciculture</li> <li>• Crop + orchard + floriculture + livestock + pisciculture</li> <li>• Commercial cultivation of Mango, Litchi and Banana</li> <li>• Commercial cultivation of vegetables i.e. Tomato, Brinjal, Cauliflower &amp; Onion</li> <li>• Nursery raising</li> <li>• Mushroom cultivation</li> <li>• Pisciculture</li> <li>• Poultry</li> <li>• Bee keeping</li> <li>• Cash crop like sugarcane, Groundnut</li> </ul>
2	Agro-climatic Zone	Mid Central Table land zone
3	Agro ecological situation	<ol style="list-style-type: none"> <li>1. Red loam soil with medium rainfall</li> <li>2. Black soil with low rainfall</li> <li>3. Black soil with medium rainfall</li> <li>4. Medium textured red loam soil with low rainfall</li> <li>5. Black soil low rainfall</li> </ol>
4	Soil type	<ul style="list-style-type: none"> <li>• Red Laterite</li> <li>• Black (Vertisol)</li> <li>• Lateritic (Oxisol)</li> <li>• Alluvial</li> </ul>
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	<p><b>Cereals :</b> Rice-23.23 q/ha, Maize-19.18 q/ha</p> <p><b>Pulses :</b> Blackgram - 5.38 q/ha, Greengram - 5.52 q/ha; Pigeonpea: 8.15 q/ha</p> <p><b>Oilseeds :</b> Groundnut-18.41 q/ha; Sesame – 6.41 q/ha; Mustard- 7.62 q/ha</p> <p><b>Vegetables :</b> Tomato - 183.3 q/ha; Brinjal - 150.1 q/ha; Chilli - 19.89 q/ha</p> <p><b>Fruits :</b> Mango-86.50 q/ha; Litchi-124.5 q/ha; Banana-91.0 q/ha</p>
6	Mean yearly temperature, rainfall, humidity of the district	Temp (Max)- 41 <sup>0</sup> C (May), Temp (Min)- 13 <sup>0</sup> C (Dec) Rainfall - 1341 mm

		Humidity (Max): 84 % (July), Humidity (Min): 41 % (March)
7	Production of major livestock products like milk, egg, meat etc.	<b>Production/year</b> Meat - 7.1 TMT, Milk - 47.26 TMT, Egg - 23.34 millions Pisciculture : 4985.99 tonnes

Note: Please give recent data only

2.b. Details of operational area / villages (2022)

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	Talcher	Kaniha	Parabil	Paddy, Groundnut, Greengram, Blackgram, Arhar, Dairy, Goatery, Poultry, etc.	<ul style="list-style-type: none"> <li>• Paddy- Occurrence of Sheath blight, Root Rot</li> <li>• Groundnut-YMV</li> <li>• Greengram- YMV, Root rot, aphid</li> <li>• Arhar-sucking pest</li> <li>• Cow-BQ, FMD</li> <li>• Goat-PPR</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated pest &amp; disease management</li> <li>• Increased production and productivity of Paddy, oilseeds and pulses through ICM</li> <li>• Disease &amp; production management in livestock</li> <li>• Drudgery reduction by using small farm implements</li> </ul>
2	Athamallik	Kishorenagar	Sanjamura	Paddy, Greengram, Blackgram, Onion, Pisciculture, etc.	<ul style="list-style-type: none"> <li>• Low yield from upland Paddy</li> <li>• Yield loss in onion due to infestation of purple blotch</li> <li>• Traditional method of fish culture by stocking fingerlings</li> <li>• Conventional method of IMC culture without using Pangas and any scientific management practices</li> </ul>	<ul style="list-style-type: none"> <li>• Production enhancement in livestock</li> <li>• Integrated pest &amp; disease management</li> <li>• Promotion of horti-silvi -pastoral system</li> <li>• Increased production and productivity of Paddy, oilseeds and pulses through ICM</li> <li>• Value addition in fruits &amp; vegetables</li> </ul>

3	Athamallik	Athamallik	Sisukata	Paddy, Vegetables, Greengram, Blackgram, Poultry, Goatery, Pisciculture.	<ul style="list-style-type: none"> <li>• Low yield from Paddy</li> <li>• Use of low yielding variety in paddy</li> <li>• Pod-borer in pigeonpea</li> <li>• Root rot and Aphid problem in green gram</li> <li>• Traditional method of fish culture by stocking fingerlings</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated pest &amp; disease management</li> <li>• Increased production and productivity of Paddy, oilseeds and pulses through ICM</li> <li>• Disease &amp; production management in livestock</li> <li>• Creating avenues for self-employment</li> </ul>
4	Angul	Banarpal	Sakosingha	Paddy, Vegetables, Greengram, Blackgram, Poultry, Dairy, Goatery, Pisciculture.	<ul style="list-style-type: none"> <li>• Incidence of stem borer, blast disease and BPH in paddy</li> <li>• YMV in green gram and okra</li> <li>• Diamond back moth in cauliflower</li> <li>• Fruit and shoot borer in brinjal</li> <li>• Wilting in tomato</li> <li>• Low milk yield cows</li> <li>• Traditional method of fish culture by stocking fingerlings</li> </ul>	<ul style="list-style-type: none"> <li>• Increased production and productivity of Paddy, oilseeds and pulses through ICM</li> <li>• Disease &amp; production management in livestock</li> <li>• Integrated pest &amp; disease management</li> <li>• Value addition in fruits &amp; vegetables</li> </ul>
5	Angul	Angul	Sana kanjani	Paddy, Greengram, Blackgram, Vegetables, Dairy, Pisciculture.	<ul style="list-style-type: none"> <li>• Incidence of stem borer, blast disease and BPH in paddy</li> <li>• YMV in green gram and okra</li> <li>• Fruit and shoot borer in brinjal</li> <li>• Wilting in tomato</li> <li>• Low milk yield cows</li> </ul>	<ul style="list-style-type: none"> <li>• Increased production and productivity of Paddy, oilseeds and pulses through ICM</li> <li>• Integrated pest &amp; disease management</li> <li>• Disease &amp; production management in livestock</li> <li>• Drudgery reduction by using small farm implements</li> </ul>

## 2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2021-22) for its development and action plan

Name of village	Block	Action taken for development
Parabil	Kaniha	
Sanjamura	Kishorenagar	<ul style="list-style-type: none"> <li>• Promoted two small scale Kadaknath poultry unit.</li> <li>• FLD programme on deworming and supplement feeding in goats was done.</li> <li>• Training programmes on record keeping in poultry farming</li> </ul>
Sisukata	Athamallik	<ul style="list-style-type: none"> <li>• Training programmes conducted on backyard poultry farming</li> <li>• OFT on influence of probiotic on the growth performance of IMC fingerlings</li> <li>• Training on use of pro-biotic for growth of IMC fingerlings</li> </ul>
Sakosingha	Banarpal	<ul style="list-style-type: none"> <li>• Training on Nutritional Gardening for rural farmwomen</li> <li>• Training programmes conducted on new trends of feeding in dairy animals</li> <li>• Training programme on feeding and health management in goats</li> <li>• Training on Management of mastitis in dairy animals was conducted</li> <li>• FLD programme on improved backyard poultry farming kadaknath</li> <li>• Deworming camp was conducted for goats</li> <li>• OFT on stocking density of <i>Labeobata</i> in composite fish culture system</li> <li>• Training on use of minor carp species in composite fish culture</li> <li>• Animal Health Camp</li> <li>• Demonstration on Hybrid napier cultivation</li> </ul>
Sanakanjani	Angul	<ul style="list-style-type: none"> <li>• Training programmes conducted on Care and management of mastitis in animals</li> </ul>

## 2.1 Priority thrust areas

S. No	Thrust area
1.	Promotion of hybrid and high yielding variety cultivation in vegetables for increasing yield
2.	Substitution of unsuitable onion varieties with suitable kharif onion variety for increasing kharif onion yield
3.	Promotion of improved variety of papaya for higher yield
4.	Popularisation of aromatic crops cultivation

5.	Micro irrigation for increasing water use efficiency in cultivation of fruits and vegetables
6.	Improved methods of nursery raising in horticultural crops
7.	To utilize the seasonal water bodies & to meet the fish seed demands of the district through fingerling production technique
8.	To enhance productivity of fish through stunted yearling culture technique by repeated stocking & harvesting method
9.	To conserve the native fish sps. Through adoption of diversified Pisciculture Practices
10.	To increase income opportunities for rural youth and farm women by practicing small scale Ornamental fish rearing technique
11.	To develop entrepreneurship through capacity building measures
12	To enhance productivity of egg, milk and meat through scientific approach
13	Increase income opportunities for rural youth and farm women through poultry farming, scientific goat rearing and improved dairy managerial practices
14	To solve the problem of poor weight gain in local poultry varieties
15	Reduction in mortality of chicks during brooding by proper brooding management
16	Reduction in kid mortality
17	Improve milk production and quality of milk
18	To develop entrepreneurship through capacity building measures programmes on poultry dairy and goatery
19	Post-harvest technology and value addition of cereals, pulses, oil seeds, vegetables and fruits.
20	Drudgery reduction through use of farm implements.
21	Creating avenues for self-employment through entrepreneurship development.
22	Family food and nutritional security.
23	Production and management of organic input
24	To reduce the wilting incidence in brinjal with proper cultural and chemical practices
25	Identification of key pest and its management with proper cultural and chemical practices as a component of IPM
26	Promotion of improved variety of chilli for higher yield
27	Encourage farmers about need based safe use of pesticides

### 3. TECHNICAL ACHIEVEMENTS

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

OFT												FLD															
No. of technologies tested:												No. of technologies demonstrated:															
Number of OFTs				Number of farmers								Number of FLDs				Number of farmers											
Target	Achievement			Target	Achievement								Target	Achievement			Target	Achievement									
				SC		ST		Others		Total							SC		ST		Others		Total				
				M	F	M	F	M	F	M	F	T					M	F	M	F	M	F	M	F	T		
11	10			82	2	2	8	5	60	2	44	5	49	18	17			105	3	10	1	0	76	10	80	20	100

Training												Extension activities															
Number of Courses				Number of Participants								Number of activities				Number of participants											
Target	Achievement			Target	Achievement								Target	Achievement			Target	Achievement									
				SC		ST		Others		Total							SC		ST		Others		Total				
				M	F	M	F	M	F	M	F	T					M	F	M	F	M	F	M	F	T		
63	59			1490	48	72	40	43	708	465	796	579	1375	1200	1236			7000	533	403	56	48	4343	3224	4932	3675	8607

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
280	280			5	7	1	1	17	44	23	52	75	200	151			9	4	3	1	97	37	109	42	151

Seed production (q)												Planting material (in Lakh)											
7.6 q												0.28272no.											
Target				Achievement								Target				Achievement							
23 q				7.6 q								0.34				0.28272							

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
60000 no. fish fingerling	69000 . fish fingerling		
0.03 chicks	0.03093 chicks		

\* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper	6	-	6	6.67	5.53		Dr.J.S.P Yadav Best Paper award by ICAR-CSSRI, West Bengal
Seminar/conference/ symposia papers							
Books							
Bulletins							
News letter	2	1000					
Popular Articles	1	-					
Book Chapter	1						
Extension Pamphlets/ literature	7	3500					
Technical reports	11	-					
Electronic Publication (CD/DVD etc)							
TOTAL	30	4500	8	6.67	5.53		Dr.J.S.P Yadav Best Paper award by ICAR-CSSRI, West Bengal



## 1 Achievements on technologies assessed and refined

## OFT-1

1.	Title of On farm Trial	Assessment of nutrient management in groundnut
2.	Problem diagnosed	Low yield in groundnut due to imbalance nutrient application
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	75% STBF + lime 0.2 LR + Biofertilisers ( <i>Rhizobium</i> @ 20g/kg of seed + PSB @20g/kg of seed) (Assessed)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	SAU (AINP on soil on Biodiversity and Biofertiliser, OUAT, 2014)
5.	Production system and thematic area	Rice based cropping system, Integrated nutrient management
6.	Performance of the Technology with performance indicators	Plant height, pods/plant, No of nodules/plant, Pod weight/ plant, No of kernels/pod, 100 seed weight, pod yield, net income & B:C ratio
7.	Final recommendation for micro level situation	Integrated use of 75% STBF + lime 0.2 LR + Biofertilisers ( <i>Rhizobium</i> + PSB) enhances the growth and yield parameters of groundnut crop resulting in significantly higher pod yield than 100% STBF and Farmer's practice i.e. 3.9 and 16.8% respectively with higher net return (Rs.45,475/ha) net return(1.61)
8.	Constraints identified and feedback for research	Unavailability of biofertilisers in local market
9.	Process of farmers participation and their reaction	Farmers were actively participated and convinced with the integrated use of chemical and biofertilisers as it enhances 16.8% pod yield in groundnut with additional net income of Rs.11,175/ha and decided to practice the technology in next cropping season

*Thematic area:* Integrated nutrient management

Problem definition: Low yield in groundnut due to imbalance nutrient application

Technology assessed:

Farmers Practice (FP): Imbalanced application of fertilizers (40:28:15 N-P<sub>2</sub>O<sub>5</sub>-K<sub>2</sub>O/ha)

Technology option-I (TO-I): Soil test based fertilizers (STBF)

Technology option-II (TO-II): 75% STBF + lime 0.2 LR + Biofertilisers (*Rhizobium* @ 20g/kg of seed + PSB @20g/kg of seed)

Table: 1

Technology option	No. of trials	Yield component			Dry matter production (g/plant)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of pods/plant	Pod weight/plant	Test wt. (100 seed weight)						
Farmers Practice (FP):	10	16.5	14.2	60	23.1	18.4	67818	102118	34300	1.51
Technology option-I (TO-I):	10	19.2	17.5	64.2	25.2	20.7	72357	114782	42425	1.59
Technology option-II (TO-II):	10	20.3	18.2	67.0	26.5	21.5	74082	119557	45475	1.61

Results: 75% STBF + lime 0.2 LR + Biofertilisers (*Rhizobium*+ PSB) enhances the growth and yield parameters of groundnut crop resulting in significantly higher pod yield than 100% STBF and Farmer's practice i.e. 3.9 and 16.8% respectively with higher net return (Rs.45,475/ha) net return(1.61)

## OFT-2

1.	Title of On farm Trial	Assessment of nutrient management in maize
2.	Problem diagnosed	Low yield in in maize due to heavy weed infestation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Post-emergence application of tembotrion 34.4% SC @100g/ha at 20 DAS (Assessed)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on Weed management, OUAT, 2019-20

5.	Production system and thematic area	Maize based cropping system, Weed management
6.	Performance of the Technology with performance indicators	Plant height, length of cob, no of rows/cob, no of grains/cob, grain yield, no of weeds/m <sup>2</sup> , weed dry weight/m <sup>2</sup> , weed control efficiency, net income & B:C ratio
7.	Final recommendation for micro level situation	Post-emergence application of tembotrione 34.4% SC @ 100 g/ha at 20 DAS significantly reduced the weed density and weed dry weight resulting 18% higher grain yield and net return (Rs.37,014/ha) over farmer's practice in maize.
8.	Constraints identified and feedback for research	Unavailability of herbicide (Tembitrion 34.4% SC) in local market
9.	Process of farmers participation and their reaction	Farmers were actively participated and convinced with application of herbicide (tembotrione) as it enhances 18% grain yield in maize over farmers practice with additional net income of Rs.2,670/ha and decided to practice the technology in next cropping season

*Thematic area:* Weed management

Problem definition: Low yield in in maize due to heavy weed infestation

Technology assessed:

Farmers Practice (FP): One hoeing and earthing up at 20 DAS

Technology option-I (TO-I): Pre-emergence application of pendimethalin 30% EC @ 1.0 kg/ha

Technology option-II (TO-II): Post-emergence application of tembotrione 34.4% SC @ 100 g/ha at 20 DAS (4-5 leaf stage)

Table: 2

Technology option	No. of trials	Yield component			Weed density/m <sup>2</sup>	Yield (q/ha)	Cost of cultivation	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Length of cob (cm)	No of Grains/cob	Test wt. (100)						

				seed weight)			(Rs./ha)			
Farmers Practice (FP):	10	14.6	291.6	28.3	31.3	42.7	32014	58350	24336	1.72
Technology option-I (TO-I):	10	14.8	301.3	31.3	25.5	48.9	32454	66797	34343	2.06
Technology option-II (TO-II):	10	15.7	305.4	32.1	22.3	50.9	32014	69028	37014	2.16

Results: Post-emergence application of tembotrione 34.4% SC @ 100 g/ha at 20 DAS significantly reduced the weed density and weed dry weight resulting 18% higher grain yield and net return (Rs.37,014/ha) over farmer's practice in maize.

### OFT-3

1.	Title of On farm Trial	Assessment on Integrated Management of Sheath Blight in Rice
2.	Problem diagnosed	Yield loss due to heavy incidence of sheath blight
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<p><b>TO<sub>1</sub></b>-Seed treatment with thiophanate methyl @ 1.5gm/Kg of seeds. Alternate Spraying of the combination fungicide Azoxystrobin+ difenoconazole (Godiwa super) and thifluzamide @ 1ml/lit at 15 days interval starting from initiation of the infection</p> <p><b>TO<sub>2</sub></b>- Alternate spraying of Trifloxystrobin 25%+Tebuconazole 50% 75 WG (Nativo) @ 0.5gm/liter and Propiconazole 13.9% +Difenoconazole 13.9% EC (Taspa) @ 1ml/lit after 30 &amp; 60 DAT (Refined)</p>
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT, AICRP Rice, Chiplima-2018
5.	Production system and thematic area	Irrigated medium land, IDM (Integrated Disease Management)

6.	Performance of the Technology with performance indicators	% Disease incidence-7.51,Yield-39.38,BCR-1.53
7.	Final recommendation for micro level situation	Seed treatment should be done properly.Excess dose of fertilizer application should be avoided.Optimum spacing should be maintained.Avoid flow of irrigation water from infected field to main field.Farmers should practice deep ploughing in summer and burning of stubbles
8.	Constraints identified and feedback for research	Farmers were used to apply excess doses of fertilizers,instead of that farmers should go for foliar spraying of recommended fungicides
9.	Process of farmers participation and their reaction	Farmers were interested to know the technology by which the disease can be controlled and they promised to continue the same in the next season.

*Thematic area:* IDM

Problem definition: Yield loss due to heavy incidence of sheath blight

Technology assessed: Integrated management practices against sheath blight in rice

Table:3

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	10				15.26	30.64	36600	45960	9360	1.25
TO <sub>1</sub>	10				10.49	33.11	37200	49665	12465	1.33
TO <sub>2</sub>	10				7.51	39.38	38500	59070	20570	1.53

**Results:** Alternate spraying of Trifloxystrobin 25%+Tebuconazole 50% 75 WG (Nativo) @ 0.5gm/liter and Propiconazole 13.9% +Difenoconazole 13.9% EC (Taspa) @ 1ml/lit after 30 & 60 DAT effectively controls the disease incidence in rice and reduce the disease incidence to 7.51%

## OFT-4

1.	Title of On farm Trial	Assessment of Fall Army Worm management in maize
2.	Problem diagnosed	Low yield due to high incidence of Fall Army Worm
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO <sub>1</sub> - Hand picking and destruction of egg masses and neonate larvae and alternate spraying of 1500 ppm Azadirachtin at the initiation of damage and <i>Beauveria bassiana</i> @ 2ml/lit at 10 days interval TO <sub>2</sub> - Spraying of Chlorantraniliprole 18.5 % SC @ 0.4 ml /lit at the initiation of the infestation followed by a spraying of Emamectin Benzoate 5% SG @ 0.5 gm/lit after 15 days (Assessed)
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	NCIPM, Annual Report-2020 ICAR-RC for NEHR, Meghalaya, 2019
5.	Production system and thematic area	Commercial and mixed , IPM
6.	Performance of the Technology with performance indicators	% Damage-22.52, Green cob yield-127.0, BCR-4.6
7.	Final recommendation for micro level situation	Seed treatment should be done by farmers. Need base and alternate use of pesticides should be followed by the farmers for better result.
8.	Constraints identified and feedback for research	Indiscriminate spraying of pesticides should be avoided
9.	Process of farmers participation and their reaction	Farmers accepted the technology demonstrated and promised for need base use of pesticides in time.

*Thematic area:* IPM

Problem definition: Low yield due to high incidence of Fall Army Worm

Technology assessed: Management practices for fall army worm in maize

Table: 4

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	10				75.8	66.14	40000	145508	105508	3.63
TO <sub>1</sub>	10				44.86	105.3 2	47500	231704	184204	4.87
TO <sub>2</sub>	10				22.52	127.0 2	50000	279444	229444	5.58

**Results:** Hand picking and destruction of egg masses and neonate larvae and Spraying of Chlorantraniliprole 18.5 % SC @ 0.4 ml /lit at the initiation of the infestation followed by a spraying of Emamectin Benzoate 5% SG @ 0.5 gm/lit after 15 days effectively control this notorious pest and gives 20% higher yield than farmers practice

### OFT-5

1.	Title of On farm Trial	<b>Assessment of collar rot disease management in Groundnut during Kharif</b>
2.	Problem diagnosed	High incidence of collar rot disease
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<b>TO<sub>1</sub></b> -Seed treatment with Carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/kg seeds during sowing and need-based spraying of Chlorothalonil 75% WP @ 1.5 gm/lt. and Carbendazim @ 2 gm/lt alternatively at 15 days interval <b>TO<sub>2</sub></b> -Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application of T. viride @ 4kg incubated in 50 kg FYM/ha at sowing, broadcasting of T. viride @ 4kg incubated in 250kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1ml/lit. starting from initiation of the diseases and after 15 days

4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	Ann. Report, OUAT-2016 Ann. Report, TNAU-2015
5.	Production system and thematic area	Rainfed upland , IDM
6.	Performance of the Technology with performance indicators	% Disease incidence-7.54,Yield-21.79,BCR-1.99
7.	Final recommendation for micro level situation	Seed treatment should be done by farmers. Need base and alternate use of fungicides should be followed by the farmers for better result.
8.	Constraints identified and feedback for research	Indiscriminate spraying of fungicides should be avoided
9.	Process of farmers participation and their reaction	Farmers accepted the technology demonstrated and promised for need base use of fungicides in time.

*Thematic area:* IDM

Problem definition : High incidence of collar rot disease

Technology assessed: Management practices for collar rot disease in groundnut

Table: 5

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	10				17.25	14.04	45000	58968	13968	1.31
TO <sub>1</sub>	10				11.93	18.66	45700	78372	32672	1.71
TO <sub>2</sub>	10				7.54	21.79	45900	91518	45618	1.99

**Results:** Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application of *T. viride* @ 4kg incubated in 50 kg FYM/ha at sowing, broadcasting of *T. viride* @ 4kg incubated in 250kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1ml/lit. starting from initiation of the diseases and after 15 days can reduce the disease incidence to 7.54%.



## OFT-6

1.	Title of On farm Trial	<b>Assessment of different maize hybrids in Agri-Silvi Agroforestry model</b>
2.	Problem diagnosed	Un-utilization of interspaces in different forest plantations
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Maize hybrids Viz., VNR 4226 and Kalinga Raj are sown at a spacing of 60x30 cm with proper seed treatment and land preparation. These seeds are sown in teak plantation leaving 1ft. from tree base.
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	Annual Report, OUAT, 2019
5.	Production system and thematic area	Agroforestry management
6.	Performance of the Technology with performance indicators	Gives additional income to the farmers within 4 months besides tree plantation
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	Whether cash crops are to be sown or planted in any agroforestry system
9.	Process of farmers participation and their reaction	At first, they were unwilling to do the task but later on they did to some extent

*Thematic area:* Agroforestry management

Problem definition: Un-utilization of interspaces in different forest plantations

Technology assessed: Maize hybrids Viz., VNR 4226 and Kalinga Raj are sown at a spacing of 60x30 cm with proper seed treatment and land preparation. These seeds are sown in teak plantation leaving 1ft. from tree base.

Table: 6

Technology option	No. of trials	Yield component		Disease/ insect pest incidence (%)	Yield (t/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of cobs/plant	Test wt. (100 grain wt.)						
VNR 4226	5	2.00	35.2	-	6.21	63,400	1,58,600	95,200	2.5
Kalinga Raj		2.00	41.2	-	7.11	65,300	1,86,500	1,21,200	2.9

**Results:** OUAT released maize hybrid “Kalinga Raj” has yielded 17 % more than the ruling hybrid “VNR 4226” with no significant disease and pest incidences. This hybrid is performing well in utilized interspaces in different forest plantations

## OFT-7

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

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

*Thematic area:* Agroforestry

Problem definition: Agroforestry management

Technology assessed: Pine apple suckers were trimmed and treated with Bavistin and planted between mango trees at as pacing of 60x30 cm. besides this, yam suckers also planted at mango tree base with seed treatment with Bavistin in kharif season.

Table: 7

Technology option	No. of trials	Yield component		Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of cobs/plant	Test wt. (100 grain wt.)						
Pine apple	5	Cont...							
Yam		Cont...							

**Results:**

## OFT-8

1.	Title of On farm Trial	<b>Assessment of multi-enzyme mixture and probiotics on growth performance of chickens</b>
2.	Problem diagnosed	High feed consumption in chicken farming. High cost of feeding and unfeasibility of poultry rearing. Low FCR

3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<p><b>Assessment</b></p> <p>Technology option-I (TO<sub>1</sub>): Feeding of commercial broiler feed (added with probiotics mixture @ 0.05%) @50% of daily requirement and free range feeding for improved gut health and nutrient utilization</p> <p>Technology option-II (TO<sub>2</sub>): Feeding of commercial broiler feed (added with multi-enzyme mixture @ 0.05%) @50% of daily requirement and free range feeding and free range feeding improved nutrient utilization</p>
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	<p>PDP, 2017-18</p> <p>CARI 2017-18</p>
5.	Production system and thematic area	Poultry based & Poultry production and management
6.	Performance of the Technology with performance indicators	<p><b>FP:</b> Average Body weight at 12 weeks: 1.43 kg  <b>TO<sub>1</sub>:</b> Average Body weight at 12 weeks: 2.13 kg  <b>TO<sub>2</sub>:</b> Average Body weight at 12 weeks: 1.75 kg</p> <p><b>B:C ratio</b>  FP: 2.52  T.O<sub>1</sub>: 3.64  T.O<sub>2</sub>: 3.0</p>
7.	Final recommendation for micro level situation	Supplementation of probiotics in poultry feed has positive effect on weight gain performance of chickens reared under semi-intensive system
8.	Constraints identified and feedback for research	Selection of farmers for the trial was a constraint in field situation. For this constraints there should be an provision for carrying out the assessment at KVK level at first then it will be tested at farmers field.
9.	Process of farmers participation and their reaction	Farmers took part in the assessment programme with interest. After the end of assessment they are satisfied with the final weight gain noticed in case of poultry birds.

*Thematic area: Poultry production & management*

Problem definition: High feed consumption in chicken farming. High cost of feeding and unfeasibility of poultry rearing. Low FCR

Technology assessed: Assessment of multi-enzyme mixture and probiotics on growth performance of chickens

Table:8

Technology option	No. of trials	Yield component			Increase over FP (%)	Yield/ unit of 40 birds (Kg)	Cost of cultivation (Rs./unit)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Average Body weight at 3 weeks	Average Body weight at 8 weeks	Average Body weight at 12 weeks						
FP (No supplement feeding)	15	202 gms	1.16 kg	1.43 kg	-	57.2 kg live weight	4080	10,296	6216	2.52
TO1: Feeding of probiotics mixture @ 0.05%		306 gms	1.54 kg	2.13 kg	48.95%	85.2 kg live weight	4212	15,336	11,124	3.64
TO2: Feeding of multienzyme mixture @ 0.05%		242 gms	1.35 kg	1.75 kg	22.37%	70 kg live weight	4195	12,600	8405	3.0

Results: Feeding of commercial broiler feed (added with probiotics mixture @ 0.05%) @50% of daily requirement and free range feeding improved gut health and nutrient utilization with positive effect on weight gain performance of chickens reared under semi-intensive system.

## OFT-9

1.	Title of On farm Trial	<b>Assessment of low cost concentrate mixtures to attain correct time puberty in CB Heifers</b>
2.	Problem diagnosed	Improper nutrition to dairy heifer animals leading to delayed puberty
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Feeding of straw and wheat bran  T.O <sub>1</sub> : Straw + Concentrate mixture 1 (Maize-50%, Wheat bran -13%, mustard oil cake- 35%, mineral mix -1%, salt -1%)  T.O <sub>2</sub> : Straw + Concentrate mixture 2 (Maize- 0, Wheat bran – 80%, mustard oil cake- 18%, mineral mix -1%, salt -1%)
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	IGFRI 2017
5.	Production system and thematic area	Livestock based and feed management
6.	Performance of the Technology with performance indicators	<b>FP:</b> Body weight at puberty-244.17 kg;, age at first heat- 29 months, conception rate-33.3% <b>TO<sub>1</sub>:</b> Body weight at puberty-256.8 kg, age at first heat-26.17 months, conception rate-83.33%  <b>TO<sub>2</sub>:</b> Body weight at puberty-267.17 kg , age at first heat-22 months, conception rate-83.33%
7.	Final recommendation for micro level situation	Continuing
8.	Constraints identified and feedback for research	Continuing
9.	Process of farmers participation and their reaction	Continuing

*Thematic area: feed management*

Problem definition: Improper nutrition to dairy heifer animals leading to delayed puberty

Technology assessed: Assessment of low cost concentrate mixtures to attain correct time puberty in CB Heifers

Table: 9

Technology option	No. of trials	Yield component			Increase over FP (%)	Yield /unit (Kg)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Body weight at puberty	Age at first heat	conception rate						
FP : Feeding of straw and wheat bran	6	244.17 kg;	29 months	33.3%	-	Continuing				
TO1: Straw + Concentrate mixture 1		256.8 kg;	26.17 months	83.33%	5.17%					
TO2: Straw + Concentrate mixture 2		<b>267.17 kg</b>	<b>22 months</b>	83.33%	9.41%					

Results:

## OFT-10

1.	Title of On farm Trial	Assessment of different Probiotics on the growth performance of IMC fingerlings
2.	Problem diagnosed	<ul style="list-style-type: none"> <li>• Lower yield and income due to poor growth &amp; survivability status of fish seed</li> <li>• Unscientific Feed Management</li> </ul>
3.	Details of technologies selected for assessment/refinement	<p>Use of Soil probiotic @ 1 kg/ac-m water area</p> <p>Use of water probiotic @ 5 Litre/ac-m water area</p>
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	ICAR,CIFA,2004
5.	Production system and thematic area	Intensive culture method and feed management
6.	Performance of the Technology with performance indicators	Fish Yield in (no./ha.), % change in yield and B:C ratio
7.	Final recommendation for micro level situation	Use of water probiotic @ 5 Litre/ac-m water area twice daily at the time of feed application for rearing of fingerlings enhanced survival rate of fingerlings by 123.80 %.
8.	Constraints identified and feedback for research	Non availability of quality seed in proper time, Non adoption of scientific techniques by farmers.
9.	Process of farmers participation and their reaction	About 78 Farmers are interested in practising this type of feeding management practice for enhancing the seed survival rate.



## Thematic area: Feed management

Problem definition: Unscientific Feed Management, Poor growth & survivability status of fish seed resulting lower yield and income.

Technology assessed: Assessment of different Probiotics on the growth performance of IMC fingerlings

Table: 10

Technology option	No. of trials	Yield component	Change in parameter (%)	Yield (no./ha) & survival percentage	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Avg. fish growth after 3 months of observation (Fish wt. in gm)						
FP	3	8	-	84000/2 crops/3 month	55000	168000	1,13,000	3.05
TO <sub>1</sub>	3	15	87.5	1,70,000/2 crops/3 months <b>(102.38 %)</b>	70000	3,40,000	2,70,000	4.85
TO <sub>2</sub>	3	18	125	1,88,000/2 crops/3 months <b>(123.80%)</b>	72000	3,76,000	3,04,000	5.22

Results: Use of water probiotic @ 5 Litre/ac-m water area twice daily at the time of feed application for rearing of fingerlings enhanced survival rate of fingerlings by 123.80 %.

**Please provide all the OFTs in same format**

### 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	Varietal evaluation	Demonstration on medium duration HYV rice, Maudamani: CR Dhan 307	1.0	1.0	0	0	0	-	0	0	10	0	-	10	No

##### Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O					
Rice	Kharif	Rainfed medium	Red loam soil	285	10.5	178.2	Rice	28.06.22	14.11.22	1056	74

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

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

1	Varietal evaluation	Demonstration on medium duration HYV rice, Maudamani: CR Dhan 307	10	1.0	48.3	45.8	5.5	98572	62790	35782	1.57	62400	93432	31032	1.50
Total			10	1.0	48.3	45.8	5.5	98572	62790	35782	1.57	62400	93432	31032	1.50

### 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
1	Integrated nutrient management	Demonstration of nutrient management in sunflower	10	1.0	15.6	12.8	21.9	61635	99904	38269	1.62	53885	81945	28060	1.52
Total			10	1.0	15.6	12.8	21.9	61635	99904	38269	1.62	53885	81945	28060	1.52

\* 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

1	Blackgram	Demonstration of nutrient management in blackgram	10	1.0	6.47	4.86	33.1	30270	42675	12405	1.25	25810	32056	6246	1.25
	Total		10	1.0	6.47	4.86	33.1	30270	42675	12405	1.25	25810	32056	6246	1.25

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

\*\* BCR= GROSS RETURN/GROSS COST

### Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)					
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR		
Brinjal	IDM	Demonstration of Integrated management of wilt complex of Brinjal during Kharif	5	2		223.8		% Disease Incidence	% Disease Incidence										
								3.04	14.12	82700	324544	241844	3.92	80500	268884	188384	3.34		
					296.5		32.48												
Chilli	IPM	Demonstration on management of sucking pest complex	5	2	103.04	81.9	25.81	No. of thrips/ twig-11.4	No. of thrips/ twig-24.7										
								No. of white-fly/ twig-11.92	No. of white-fly/ twig-25	70400	103040	32640	1.46	65600	81900	16300	1.24		

		in Chilli						No. of aphids/ twig- 11.46	No. of aphids/ twig- 14.86								
Banana	IDM	Demonstration of IDM practice for management of Sigatoka disease in Banana	5	2	383.42	288.94	32.69	% Disease Incidence 12.74	% Disease Incidence 23.7	145680	306736	161056	2.1	136510	231152	94642	1.69
Greengram	IDM	Demonstration on management of root rot in greengram	5	2	7.3	5.86	24.57	% damage 11.16	% damage 22.28	26200	51100	24900	1.95	23400	41020	17620	1.75
Cashew apple	IPM	Demonstration on management of tea mosquito bug	5	2	281.92	178.96	57.53	% Infestation 11.96	% Infestation 23.02	48200	140960	92760	2.94	45600	89480	43880	1.96
Chilli	Production management	Chilli seedlings (Arka Harita) are planted at a spacing of 90x60x45 cm in the paired row system, using ropes marked at 60 cm spacing	5	0.4				43.5 cm	25.8 cm	1,24,900				1,02,500			

Turmeric+man go	Agroforestry management	Small pits are made with a hand hoe on the beds with a spacing of 15 cm x 30 cm. Pits are filled with well decomposed cattle manure or compost, seed rhizomes are placed over it then covered with soil. The optimum spacing is 30 - 45 cm between the rows and 25 cm between the plants.	5	0.4	-		64.5 cm		1,28,100								
Bamboo	Production management	Culm cuttings are prepared during January to February and after 6 months it will be ready for plantation. Rotted culm cuttings are planted at 6 x 6 m during July to August following all the recommended cultural operations	5		Cont..												
		Total															

### Livestock

Category	Thematic area	Name of the technology	No. of	No. of units	Major parameters	% change	Other parameter	*Economics of demonstration (Rs.)	*Economics of check (Rs.)
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		demonstrated	Farmer		Demonstration	Check	in major parameter	Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	Feed & fodder technologies	Demonstration on Hybrid Napier (CO-4) fodder production for low cost milk production in dairy cows	5	5 (20 cows)	Average daily milk yield- 6.11 lts	Average daily milk yield- 5.36 lt	13.9%	-	-	3040/cow	7332/cow	4,292/cow	2.4	3084/cow	6430/cow	3,348/cow	2.1
Cow																	
Buffalo																	
Poultry	Poultry Management	Demonstration on artificial brooding management in chicks	5	5 (100 birds/unit)	Average body weight at 16 weeks- 1.97 kg	Average body weight at 16 weeks- 1.69 kg	16.56%	Mortality %- 2.5%	Mortality %- 15%	5440/-	13061/-	7621/-	2.4	4340/-	9768/-	5428/-	2.2





Total																			
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\* 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
IMC Fingerlings	Production Management	Demonstration on fingerling raising in seasonal ponds	05	02	Yield (fingerlings no./ha.) = 1,84,000 / 2 crops/3 months	Yield (fingerlings no./ha.) = 86,000 / 2 crops / 3 months	113.95	Wt. after 3 months (gm) = 20	Wt. after 3 months (gm) = 08	6000	3,68,000	3,08,000	6.13	5000	1,72,000	12200	3.44
Mussels																	
Ornamental fishes																	
Others (GIFT Tilapia)	Production Management	Demonstration on growth performance of Monosex Nile Tilapia through the use of floating feed	05	05	30.2	17.5	72.57	Wt. of after 2 months (gm) = 165	Wt. after 2 months (gm) = 50	8500	302000	217000	3.55	7000	175000	10500	2.5

Amur Carp	Production Management	Demonstration on stocking density of <i>Labeo bata</i> in composite fish culture system	05	05	41.2	18.6	121.5	Wt. of after 6 months (gm) = 840	Wt. after 6 months (gm) = 390	90000	576800	486800	6.4	76000	260400	184400	3.43
Total			15	12													

\* 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																	
Apiculture																	
Others (pl. specify)																	
Total																	

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

\*\* BCR= GROSS RETURN/GROSS COST

### Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women					
Pregnant women					
Adolescent Girl					
Other women					







## Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1.	Rice	Farmers appreciated the HYV rice cv-Maudamani as it produced 5% higher yield in comparison to existing old variety MTU1001 and higher panicle length and grain number per panicle and non-lodging
2.	Sunflower	Farmers appreciated the technology of integrated use of STBF + Lime 0.2 LR + FYM @ 5t/ha + Sulphur 40kg/ha+Biofertiliser in sunflower as it produced 21.9 % higher grain yield with additional net return of Rs.10209/ha as compared to local check
3.	Blackgram	Farmers appreciated the technology of application of 75% STBF + Foliar spray of WSF (18:18:18) @ 2% at 25 and 40 DAS in blackgram as it produced 33.1 % higher grain yield with additional net return of Rs.6159/ha as compared to local check
4.	Brinjal	Wilting disease is very common in solanaceous vegetable. to keep this disease under control it is necessary to follow proper integrated disease management practices including need based use of fungicides
5.	Chilli	Sucking pest attack in chilli leads to leaf curl which is a very common problem in angul district. Cultural practices, organic pest control strategies and Need based use of chemical practice can control the pest population effectively
6.	Banana	Sigatokka disease in banana is widely spread in angul district. Before going for spraying it is very necessary to clean and cut off the dried plant leaves
7.	Greengram	Greengram root rot is commonly observed in rabi season at angul district proper need base use of fungicides should be sprayed as per scientist recommendation
8.	Cashew apple	TMB are very common problem found in angul district so alternate and need base use of pesticides was recommended at flushing and flowering stage.
9.	Turmeric	Turmeric grown well under mango plantation if proper care and fertigation will be done
10.	Chilli	This variety though resistant but affected by thrips so many times. So proper care should be carried out.
11.	Poultry	Brooding management in semi-intensive poultry will be helpful in reducing early chick mortality and higher weight gain in birds
12.	Goatery	concentrate feed for does during late gestation and early lactation periods created positive impact on growth performance of kids and reduced kid mortality
13.	Dairy	Cultivation of Hybrid Napier var CO4 and feeding to dairy cows has increased the milk yield upto 13.9%.
14.	Poultry	Probiotics supplementation improved gut health and nutrient utilization with positive effect on weight gain performance of chickens reared under semi-intensive system.
15.	Amur Carp fish with IMC	About 48 no. of farmers of Chhendipada, Banarpal & Kishorenagar block of Angul District are interested to adopt the culture practice of Amur Carp fish due to its fast growth rate i.e. 800-900 gm within 6 months. So more Trg. & demonstration programmes need to be conducted to enhance the knowledge regarding economic benefits of Diversified fish culture practices i.e. Amur Carp, Labeo bata, Labeo gonious, Puntius gonionotus & jayanti rohu etc.
16.	IMC Fingerlings	Though the fingerling raising technique does a short term income generating avenue with more profit from a small area with less time period, so farmers (68 no.) comprising 12.8 ha. area and Women SHG groups (12) are very much interested for practising this technique to get more income by utilizing the small seasonal water bodies.

## Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training	21.09.2022, 05.11.2022, 10.1.22, 4.2.22, 6.8.22, 16.8.22-17.8.22, 12.9.22, 28.10.22, 6.8.22, 25.8.22, 03.11.22, 09.12.22, 23.02.22	13	325	
3.	Media coverage				
4.	Training for extension functionaries				

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2022 and Rabi 2021-22:**

**A. Technical Parameters:**

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)			
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P	
1.	Groundnut (Kharif, 22)		14.5	14.7	14.6	26	Use of HYV seed : Dharani ,Seed treatment with bio-control agent <i>Trichoderma viride</i> @ 10 gm/kg of seeds and seed dressing with bio-fertilisers like <i>Rhizobium</i> @20g/kg and PSB @25g/kg ,Spraying of Imazethapyr @ 1lit /ha for weed control at 20 DAS, Application of Boron 20% @ 1 kg/ha and Sulphur @ 1 lit/ha at pre-flowering stage,Spraying of Carbendazim + Mancozeb @ 1kg/ha against Tikka disease, Spraying of Thiomethoxam @160 g/ha against Aphids vegetative stage,	1.	Groundnut (Kharif ,22)	14.5	14.7	14.6	26			

							Spraying of Cartap hydrochloride@1 kg/ha against Red hairy caterpillar at pod formation stage								
2	Sesame ( <i>Kharif</i> , 22)		4.15	3.9 6	3. 99	16.1 1	Use of HYV seed : GT 6 ,Seed dressing with bio-fertilizers ( <i>Rhizobium</i> @20g and PSB @ 25g /kg seed),Application of micronutrients (Boron 20.5% @1.0 kg/ha and Zinc 21 % @.2.0 kg/ha at pre-flowering stage) as foliar spray,Application of herbicide (Spraying of Imazethapyr 10% SL @1litre/ha at 20 DAS) for effective control of weed,Plant protection measures (Spraying of Thiomethoxam @ 160g/ha against thrips, Spraying of Cartap hydrochloride 50% SP@ 1kg/ha against leaf webber and capsule borer at pod formation stage	2	Sesame ( <i>Kharif</i> , 22)		4.1 5	3. 96	3. 99	16. 11	
3.	Blackgram ( <i>Kharif</i> , 22)	Khunti biri	4.2	-42	- 35	- 1080	Use of HYV : PU 31 (Farmers' share); Seed dressing with bio-fertilizer ( <i>Rhizobium</i> @20g and PSB @ 25g /kg seed); Application of herbicide(Spraying of Imazethapyr 10% SL	3.	Blackgram ( <i>Kharif</i> , 22)	Khunti biri	4.2	- 42	- 35	- 1080	



							@ 1litre/ha at 20 DAS) for effective control of weed); Application of micronutrient (Boron 20.5% @ 1.0 kg/ha at pre-flowering stages); Plant protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids, Spraying of Cartap hydrochloride 50%SP@ 1kg/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew)									
4.	Pigeon pea (Kharif, 22)	Nali harada	8.9	-80	-63	-1610	Use of HYV : PRG 176 (ICARDA share); Seed dressing with bio-fertilizer ( <i>Rhizobium</i> @ 20g and PSB @ 25g /kg seed); Application of herbicide(Spraying of Imazethapyr 10% SL @ 1litre/ha at 20 DAS) for effective control of weed); Application of secondary & micronutrient (Sulphur 80% WDG @ 1.0kg/ha, Boron 20.5% @ 1.0 kg/ha and Zinc 21% @ 2.5 kg/ha at pre-flowering stages); Plant	4..	Pigeon pea (Kharif ,22)	Nali harada	8.9	-80	-63	-1610		

							protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids/white fly , Spraying of Cartap hydrochloride 50%SP@ 1kg/ha and <i>Trichogramma chilonis</i> 10 cards/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew								
5.	Groundnut (Rabi, 22-23)		16.5	19.7	19.8	37	Use of HYV seed of groundnut: Dharani (Farmers' share), Seed treatment with bio-control agent <i>Trichoderma viride</i> @ 10g/kg of seed; Application of herbicide (Spraying of Imazethapyr @ 1 litre/ha for effective control of weed) 5. Application of Sulphur @ 1 kg/ha at pre-flowering stages); Application of micronutrient (Boron 20% @ 1.0 kg/ha at pre-flowering stage Plant protection measures (Spraying of Cartap hydrochloride @ 1 kg/ha against Bihari caterpillar at pod formation stage , carbendazim+Mancozeb @ 1 kg/ha for Tikka disease, thiamethoxam	5.	Groundnut (Rabi, 22-23)		16.5	19.7	19.8	37	

							160g/ha against thrips and Trichogramma chilonis-10 cards/ha)							
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### B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1.	Use of HYV seed : Dharani ,Seed treatment with bio-control agent <i>Trichoderma viride</i> @ 10 gm/kg of seeds and seed dressing with bio-fertilisers like <i>Rhizobium</i> @20g/kg and PSB @25g/kg ,Spraying of Imazethapyr @ 1lit /ha for weed control at 20 DAS, Application of Boron 20% @ 1 kg/ha and Sulphur @ 1 lit/ha at pre-flowering stage, Spraying of Carbendazim + Mancozeb @ 1kg/ha against Tikka	48,430	85,410	36,980	1.76	58305	107628	49323	1.85

	disease, Spraying of Thiometho xam @160 g/ha against Aphids vegetative stage, Spraying of Cartap hydrochlori de@1 kg/ha against Red hairy caterpillar at pod formation stage								
2.	Use of HYV seed : GT 6 ,Seed dressing with bio- fertilizers ( <i>Rhizobium</i> @20g and PSB @ 25g /kg seed),Appli cation of micronutrie nts (Boron 20.5% @1.0 kg/ha and Zinc 21 % @.2.0 kg/ha at pre- flowering stage) as foliar spray,Appli cation of herbicide (Spraying of Imazethapy r 10% SL @ 1litre/ha at 20 DAS) for effective control of weed,Plant protection measures (Spraying of Thiometho	22,800	32,495	9,694	1.43	27850	42877	15027	1.54

	xam @ 160g/ha against thrips, Spraying of Cartap hydrochloride 50% SP@ 1kg/ha against leaf webber and capsule borer at pod formation stage								
3.	Use of HYV : PU 31 (Farmers' share); Seed dressing with bio-fertilizer ( <i>Rhizobium</i> @20g and PSB @ 25g /kg seed); Application of herbicide(Spraying of Imazethapyr 10% SL @ 1litre/ha at 20 DAS) for effective control of weed); Application of micronutrient (Boron 20.5% @ 1.0 kg/ha at pre-flowering stages); Plant protection measures	20450	27720	7270	1.36	23650	34980	11330	1.48

	(Spraying of Thiamethoxam @ 160g/ha against aphids, Spraying of Cartap hydrochloride 50%SP@ 1kg/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew)								
4.	Use of HYV : PRG 176 (ICRIDA share); Seed dressing with bio-fertilizer ( <i>Rhizobium</i> @20g and PSB @ 25g /kg seed); Application of herbicide(Spraying of Imazethapyr 10% SL @ 1litre/ha at 20 DAS) for effective control of weed); Application of secondary	40888	58740	17852	1.44	48641	80520	31879	1.66

	& micronutrient (Sulphur 80% WDG @ 1.0kg/ha, Boron 20.5% @ 1.0 kg/ha and Zinc 21% @ 2.5 kg/ha at pre-flowering stages); Plant protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids/white fly , Spraying of Cartap hydrochloride 50%SP@ 1kg/ha and <i>Trichogramma chilonis</i> 10 cards/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew								
5.	Use of HYV seed of groundnut: Dharani(Farmers' share), Seed	56440	96525	40085	1.71	59541	121703	62162	2.04

<p>treatment with bio-control agent Trichoderma viride @10g/kg of seed; Application of herbicide(Spraying of Imazethapyr @1 litre/ha for effective control of weed)</p> <p><b>5.</b> Application of Sulphur@1 kg/ha at pre-flowering stages); Application of micronutrient(Boron 20% @ 1.0 kg/ha at pre-flowering stage Plant protection measures(Spraying of Cartap hydrochloride@1 kg/ha against Bihari caterpillar at pod formation stage , carbendazim+Mancozeb @1 kg/ha for Tikka disease, thiamethoxam 160g/ha against thrips and Trichogramma chilonis-10 cards/ha)</p>								
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### C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1.	Groundnut (Dharani)		1729.8	58.5	45	65	Domestic	74.5
2.	Sesame (GT 10)		533.8	78.3	5	8.8	Domestic	
3.	Blackgram (PU 31)	530	170	70	220	140	To meet domestic need	25
4	Pigeonpea (PRG 176)	1220	345	66	550	325	To meet domestic need	92
5	Groundnut (Dharani)	2080	1980	58.5	70.7	29.2	Domestic	75

### D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	Use of HYV seed : Dharani ,Seed treatment with bio-control agent <i>Trichoderma viride</i> @ 10 gm/kg of seeds and seed dressing with bio-fertilisers like <i>Rhizobium</i> @20g/kg and PSB @25g/kg ,Spraying of Imazethapyr @ 1lit /ha for weed control at 20 DAS, Application of Boron 220% @ 1 kg/ha and Sulphur @ 1 lit/ha at pre-flowering stage,Spraying of Carbendazim + Mancozeb @ 1kg/ha against Tikka disease, Spraying of	Y	Moderate	75	N	70	Liked by farmers

	Thiomethoxam @160 g/ha against Aphids vegetative stage, Spraying of Cartap hydrochloride@1 kg/ha against Red hairy caterpillar at pod formation stage						
2	Use of HYV seed : GT 6 ,Seed dressing with bio-fertilizers ( <i>Rhizobium</i> @20g and PSB @ 25g /kg seed),Application of micronutrients (Boron 20.5% @1.0 kg/ha and Zinc 21 % @.2.0 kg/ha at pre-flowering stage) as foliar spray,Application of herbicide (Spraying of Imazethapyr 10% SL @1litre/ha at 20 DAS) for effective control of weed,Plant protection measures (Spraying of Thiomethoxam @ 160g/ha against thrips, Spraying of Cartap hydrochloride 50% SP@ 1kg/ha against leaf webber and capsule borer at pod formation stage	Y	High	60	N	85	Liked by farmers
3	Use of HYV : PU 31 (Farmers' share); Seed dressing with bio-fertilizer ( <i>Rhizobium</i> @20g and PSB @ 25g /kg seed); Application of herbicide(Spraying of Imazethapyr 10% SL @1litre/ha at 20 DAS) for effective control of weed); Application of micronutrient (Boron 20.5% @1.0 kg/ha at pre-flowering stages); Plant protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids, Spraying of Cartap hydrochloride 50%SP@ 1kg/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha	Y	Moderate	75	N	70	Liked by farmers

	for powdery mildew)						
4	<p>1. Use of HYV : PRG 176;</p> <p>2. Seed dressing with bio-fertilizer (<i>Rhizobium</i> @20g and PSB @ 25g /kg seed);</p> <p>3. Application of herbicide (Spraying of Imazethapyr 10% SL @1litre/ha at 20 DAS) for effective control of weed);</p> <p>4. Application of secondary &amp; micronutrient (Sulphur 80% WDG @ 1.0kg/ha, Boron 20.5% @1.0 kg/ha and Zinc 21% @ 2.5 kg/ha at pre-flowering stages);</p> <p>5. Plant protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids/white fly , Spraying of Cartap hydrochloride 50%SP@ 1kg/ha and <i>Trichogramma chilonis</i> 10 cards/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew</p>	Y	Moderate	85	N	80	Liked by farmers
5.	<p>Use of HYV seed of groundnut: Dharani (Farmers' share), Seed treatment with bio-control agent <i>Trichoderma viride</i> @10g/kg of seed;</p> <p>Application of herbicide (Spraying of Imazethapyr @1 litre/ha for effective control of weed)</p> <p>5. Application of Sulphur @1 kg/ha at pre-flowering stages);</p> <p>Application of micronutrient (Boron 20% @ 1.0 kg/ha at pre-flowering stage Plant</p>	Y	Moderate	90	N	85	Liked by farmers

protection measures(Spraying of Cartap hydrochloride@1 kg/ha against Bihari caterpillar at pod formation stage , carbendazim+Mancozeb @1 kg/ha for Tikka disease, thiamethoxam 160g/ha against thrips and Trichogramma chilonis-10 cards/ha)						
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### E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Use of HYV seed : Dharani ,Seed treatment with bio-control agent <i>Trichoderma viride</i> @ 10 gm/kg of seeds and seed dressing with bio-fertilisers like <i>Rhizobium</i> @20g/kg and PSB @25g/kg ,Spraying of Imazethapyr @ 1lit /ha for weed control at 20 DAS, Application of Boron 220% @ 1 kg/ha and Sulphur @ 1 lit/ha at pre-flowering stage,Spraying of Carbendazim + Mancozeb @ 1kg/ha against Tikka disease, Spraying of Thiomethoxam @160 g/ha against Aphids vegetative stage, Spraying of Cartap hydrochloride@1 kg/ha against Red hairy caterpillar at pod formation stage	The demonstration performed well with higher production and profit	Demonstrated technology of HYV, Seed dressing with bio-fertilizer; weed management by herbicide; application of micronutrient and proper plant protection measures under CFLD resulted higher grain yield and profit as compared to local check.	Farmers were convinced with the technology and decided to cultivate the variety (Dharani) in next season with same package of practices.
Use of HYV seed : GT 6 ,Seed dressing with bio-fertilizers ( <i>Rhizobium</i> @20g and PSB @ 25g /kg seed),Application of micronutrients (Boron 20.5% @1.0 kg/ha and Zinc 21 % @.2.0 kg/ha at pre-flowering stage) as foliar spray,Application of herbicide (Spraying of Imazethapyr 10% SL	The demonstration performed well with higher production and profit	Demonstrated technology of HYV, Seed dressing with bio-fertilizer; weed management by herbicide; application of micronutrient and proper plant protection measures under CFLD resulted higher grain yield and profit as compared to local check.	Farmers were convinced with the technology and decided to cultivate the variety (GT 6) in next season with same package of practices.

<p>@1litre/ha at 20 DAS) for effective control of weed, Plant protection measures (Spraying of Thiomethoxam @ 160g/ha against thrips, Spraying of Cartap hydrochloride 50% SP@ 1kg/ha against leaf webber and capsule borer at pod formation stage</p>			
<p>Use of HYV : PU 31 (Farmers' share); Seed dressing with bio-fertilizer (<i>Rhizobium</i> @20g and PSB @ 25g /kg seed); Application of herbicide (Spraying of Imazethapyr 10% SL @1litre/ha at 20 DAS) for effective control of weed); Application of micronutrient (Boron 20.5% @1.0 kg/ha at pre-flowering stages); Plant protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids, Spraying of Cartap hydrochloride 50%SP@ 1kg/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew)</p>	<p>The demonstration performed well with higher production and profit</p>	<p>Demonstrated technology of HYV, Seed dressing with bio-fertilizer; weed management by herbicide; application of micronutrient and proper plant protection measures under CFLD resulted higher grain yield and profit as compared to local check.</p>	<p>Farmers were convinced with the technology and decided to cultivate the variety (PU 31) in next season with same package of practices.</p>
<p>Use of HYV : PRG 176 (ICRIDA share); Seed dressing with bio-fertilizer (<i>Rhizobium</i> @20g and PSB @ 25g /kg seed); Application of herbicide (Spraying of Imazethapyr 10% SL @1litre/ha at 20 DAS) for effective control of weed); Application of secondary &amp; micronutrient (Sulphur 80% WDG @ 1.0kg/ha, Boron 20.5% @1.0 kg/ha and Zinc 21% @ 2.5 kg/ha at pre-flowering stages); Plant protection measures (Spraying of Thiamethoxam @ 160g/ha</p>	<p>The demonstration performed well with higher production and profit</p>	<p>Demonstrated technology of HYV, Seed dressing with bio-fertilizer; weed management by herbicide; application of micronutrient and proper plant protection measures under CFLD resulted higher grain yield and profit as compared to local check.</p>	<p>Farmers were convinced with the technology and decided to cultivate the variety (PRG 176) in next season with same package of practices.</p>

against aphids/white fly , Spraying of Cartap hydrochloride 50%SP@ 1kg/ha and <i>Trichogramma chilonis</i> 10 cards/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew			
Use of HYV seed of groundnut:Dharani(Farmers' share), Seed treatment with bio-control agent <i>Trichoderma viride</i> @10g/kg of seed; Application of herbicide(Spraying of Imazethapyr @1 litre/ha for effective control of weed) <b>5.</b> Application of Sulphur@1 kg/ha at pre-flowering stages); Application of micronutrient(Boron 20% @ 1.0 kg/ha at pre-flowering stage Plant protection measures(Spraying of Cartap hydrochloride@1 kg/ha against Bihari caterpillar at pod formation stage , carbendazim+Mancozeb @1 kg/ha for Tikka disease, thiamethoxam 160g/ha against thrips and <i>Trichogramma chilonis</i> -10 cards/ha)	The demonstration performed well with higher production and profit	Demonstrated technology of HYV, Seed dressing with bio-fertilizer; weed management by herbicide; application of micronutrient and proper plant protection measures under CFLD resulted higher grain yield and profit as compared to local check.	Seed treatment, INM, IWM and IPDM enhanced the yield and income

**F. Extension activities under FLD conducted:**

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Field Day	31.10.2022, Inkarabandha	60
2	Field Day	12.09.2022, Machhakuta	50
3	Field day	16.09.2022, Dangapal	50
4	Field day	31.03.2023, Gobindpur	50
5	Field day	20.03.2023, Baramancha	50

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



i. Pigeonpea (*Kharif*) at vegetative stage



ii. Pigeonpea (*Kharif*) at vegetative stage



iii. Blackgram(*Kharif*) at pod formation stage



Sesame (*Kharif*) at harvesting stage



Feld visit Groundnut(*Kharif*)



Feld visit Groundnut(*Rabi*)

## H. Farmers' training photographs

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



i. Blackgram(*Kharif*) field visit



ii. Blackgram(*Kharif*) foliar spraying of nutrients



iii. Pigeonpea (*Kharif*) field visit



iv. Pigeonpea (*Kharif*) field visit



v. Blackgram(*Kharif*) foliar spraying of pesticides



vi. Field day on CFLD(Blackgram) on 16.09.22



vii. Field day on CFLD (Pigeonpea)

**J. Details of budget utilization**

Crop (provide crop wise information )	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Groundnut ( <i>Kharif,2022</i> )	i) Critical input	2,16,000	1,55,819	60,181
	ii) TA/DA/POL etc. for monitoring	21,000	20,642	358
	iii) Extension Activities (Field day)	3,000	3,000	0
	iv)Publication of literature	0	0	0
	Total	2,40,000	1,79,461	60,539
Sesame ( <i>Kharif,2022</i> )	i) Critical input	45,000	41,398	3,602
	ii) TA/DA/POL etc. for monitoring	2,500	2,311	189
	iii) Extension Activities (Field day)	2,500	2,500	0
	iv)Publication of literature	0	0	0
	Total	50,000	46,209	3,791
Blackgram ( <i>Kharif,2022</i> )	i) Critical input	81,000	62,169	18,831
	ii) TA/DA/POL etc. for monitoring	6,500	5,585	915
	iii) Extension Activities (Field day)	2,500	2,500	0
	iv)Publication of literature	0	0	0
	Total	90,000	70,254	19,746
Pigeonpea ( <i>Kharif,2022</i> )	i) Critical input	81,000	79,030	1,970
	ii) TA/DA/POL etc. for monitoring	6,500	5,824	676
	iii) Extension Activities (Field day)	2,500	2,500	0
	iv)Publication of literature	0	0	0
	Total	90,000	87,354	2,646
Groundnut ( <i>Rabi,2022- 2023</i> )	i) Critical input	1,08,000	77,463	30,537
	ii) TA/DA/POL etc. for monitoring	9,500	8,808	692
	iii) Extension Activities (Field day)	2,500	2,500	0
	iv)Publication of	0	0	0









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														
<b>Total</b>														
<b>IX. Production of Input at site</b>														
Seed Production														
Planting material production														
Bio0agents production														
Bio0pesticides production														
Bio0fertilizer production														
Vermi0compost production														
Organic manures production														
Production of fry and fingerlings														
Production of Bee0colonies and wax sheets														
Small tools and implements														
Production of livestock feed and fodder														
Production of Fish feed														
Mushroom production														
Apiculture														
Others														
<b>Total</b>														
<b>X. Capacity Building and Group Dynamics</b>														
Leadership development														
Group dynamics														
Formation and Management of SHGs														
Mobilization of social capital														
Entrepreneurial development of farmers/youths														
WTO and IPR issues														
Others														
<b>Total</b>														
<b>XI. Agro forestry</b>														
Production technologies														
Nursery management														
Integrated Farming Systems														
Others														
<b>Total</b>														
<b>XII. Others (Pl. Specify)</b>														
<b>GRAND TOTAL</b>	<b>10</b>	<b>143</b>	<b>107</b>	<b>250</b>	<b>38</b>	<b>37</b>	<b>75</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>144</b>	<b>325</b>	

### B) Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Nursery Management of Horticulture crops														
Training and pruning of orchards														
Protected cultivation of vegetable crops														
Commercial fruit production														
Integrated farming														
Seed production														
Production of organic inputs	1	0	0	0	4	11	0	0	0	0	4	11	15	































Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Women and Child care														
Low cost and nutrient efficient diet designing														
Group Dynamics and farmers organization														
Information networking among farmers														
Capacity building for ICT application														
Management in farm animals														
Livestock feed and fodder production														
Household food security														
Other (Disease diagnosis)	1	11	2	13	1	1	2	0	0	0	12	3	15	
Recent advances in Aquaculture Technologies	01	0	15	15							0	15	15	
Low cost fish feed preparation methods and its use	01	0	15	15							0	15	15	
<b>Total</b>	<b>4</b>	<b>21</b>	<b>37</b>	<b>58</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>38</b>	<b>60</b>	

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agronomy	F/FW	Post-harvest technique in medium land rice	1	Off campus	24	1	25	0	0	0
Agronomy	F/FW	Integrated nutrient management in groundnut	1	Off campus	24	0	24	1	0	1
Agronomy	F/FW	Integrated weed management in mustard	1	Off campus	21	4	25	0	0	0
Agronomy	F/FW	Water management in major oilseeds	1	Off campus	18	2	20	4	1	5
Agronomy	F/FW	Nutrient management based on Soil Health card	1	Off campus	15	7	22	2	1	3
Agronomy	F/FW	Integrated weed management maize	1	Off campus	25	0	25	0	0	0
Agronomy	F/FW	Post-harvest technique in medium land rice	2	Off campus	9	14	23	2	0	2
Agronomy	F/FW	Contingent crop planning for different types of drought situation	1	On campus	16	8	24	1	0	1
Agronomy	F/FW	Vermi	1	On	24	0	24	1	0	1

		composting and its use in Agriculture		campus						
Agronomy	F/FW	Management of micronutrients in pulses	1	Off campus	24	0	24	1	0	1
Agronomy	F/FW	Integrated nutrient management in blackgram	1	Off campus	9	16	25	0	0	0
Agronomy	IS	Agro-adaptations to climate change for enhancing productivity in rice based cropping system	1	Off campus	10	5	15	0	0	0
Plant Protection	F/FW	Need based safe use of pesticides	1	Off campus	17	8	25	8	0	8
Plant Protection	F/FW	Insect pests of cashew and their management	1	Off campus	25	0	25	2	0	2
Plant Protection	F/FW	Management of major diseases in greengram	1	Off campus	24	1	25	11	1	12
Plant Protection	F/FW	Management practices for major insect pests in maize	1	Off campus	13	12	25	1	1	2
Plant Protection	F/FW	Management of different pest and diseases in solanaceous vegetables	2	Off campus	23	2	25	4	0	4
Plant Protection	F/FW	Integrated pest and disease management practices in nurseries during kharif	1	Off campus	25	0	25	2	0	2
Plant Protection	F/FW	IPM practices for kharif paddy	1	Off campus	11	14	25	7	9	16
Plant Protection	F/FW	Need based safe use of pesticides	1	Off campus	12	13	25	2	4	6
Plant Protection	F/FW	Integrated disease management in chilli	1	Off campus	10	15	25	1	6	7
Plant Protection	F/FW	Pest and disease management strategies in organic vegetable production system	1	Off campus	22	3	25	3	0	3
Plant	R/Y	Preparation	2	On	4	11	15	4	11	15

Protection		procedures of different biopesticides		campus						
Forestry Sc.	F&FW	Cultivation of spices in tree plantation	1	Off campus	14	11	25	1	0	1
Forestry	F&FW	Propagation techniques of important forest trees	1	Off campus	25	0	25	2	0	2
Forestry	F&FW	Importance of cash crops in agroforestry	1	Off campus	17	8	25	12	8	20
Forestry	F&FW	Preparation and management of horti-silvi agroforestry model	1	Off campus	25	0	25	0	0	0
Forestry	F&FW	Commercial medicinal plants for income generation	1	Off campus	0	25	25	0	0	0
Forestry	F&FW	Silvicultural operations in fruit-based agroforestry model	1	Off campus	0	25	25	25	0	25
Animal Science	F/FW	New trends of feeding for improving livestock productivity	One day	Off Campus	3	22	25	0	7	7
Animal Science	F/FW	Care and management of heifers	One day	Off Campus	23	2	25	5	1	6
Animal Science	F/FW	Care and management of heifers	One day	Off Campus	13	12	25	1	2	3
Animal Science	F/FW	Feeding and health management in goats	One day	Off Campus	13	12	25	2	2	4
Animal Science	F/FW	Feeding and health management in goats	One day	Off Campus	24	1	25	0	1	1
Animal Science	F/FW	Management of heat and cold stress in poultry	One day	Off Campus	4	21	25	0	1	1
Animal Science	F/FW	Clean milk production	One day	Off Campus	13	12	25	0	0	0
Animal Science	F/FW	Care and management of Mastitis in dairy animals	One day	Off Campus	10	15	25	0	0	0

Animal Science	F/FW	Feeding of processed crop residues for better utilization by dairy animal	One day	On Campus	22	3	25	1	2	3
Animal Science	F/FW	Complete documentation and record keeping in poultry farming	One day	Off Campus	10	15	25	0	8	8
Animal Science	F/FW	Important diseases in livestock and their management	One day	On Campus	24	1	25	0	0	0
Animal Science	F/FW	Repeat breeding and anestrus management in dairy animals	One day	Off Campus	24	1	25	0	0	0
Animal Science	F/FW	Improved management practices in backyard poultry (SCSP)	Two days	On Campus	22	3	25	22	3	25
Animal Science	F/FW	Improved dairy farming with entrepreneurship skills	Three days	Off Campus	13	27	40	2	2	4
Animal Science	F/FW	Fodder production for livestock feed management	Three days	Off Campus	8	32	40	1	6	7
Animal Science	F/FW	Important diseases in livestock and their management	Three days	Off Campus	11	29	40	3	3	6
Animal Science	F/FW	Improving livelihood through goat farming with scientific management practices	Three days	Off Campus	16	24	40	4	10	14
Animal Science	F/FW	Small scale layer poultry farming for higher income per unit area	Three days	Off Campus	23	17	40	3	11	14
Animal Science	IS	Collection, preservation and dispatch of clinical samples for laboratory analysis	One day	On campus	12	3	15	1	1	2
Fishery	F/FW	Pre-stocking	1	Off	8	12	20	1	4	5

		Management Practices for fry & fingerling production		campus						
Fishery	F/FW	Scientific culture technique for Jayanti rohu fish farming	1	Off campus	9	13	22	0	3	3
Fishery	F/FW	Stunted yearling production technique	1	Off campus	7	15	22	1	2	3
Fishery	F/FW	Culture of Monosex Nile Tilapia & its scientific management	1	Off campus	8	17	25	0	0	0
Fishery	F/FW	Biology & culture method of Singhi fish	1	Off campus	9	15	24	1	0	1
Fishery	F/FW	Fish Disease diagnosis and their control	1	Off campus	4	21	25	0	0	0
Fishery	F/FW	Amur Carp culture technology	1	Off campus	7	15	22	1	2	3
Fishery	F/FW	Preparation of battered and breaded fish products	1	Off campus	8	17	25	0	0	0
Fishery	RY	Use of different probiotics for augmentation of fish yield.	2	On campus	5	10	15	0	0	0
Fishery	RY	Role of Minor carp Species for yield enhancement	2	On campus	7	8	15	2	9	11
Fishery	IS	Recent advances in Aquaculture Technologies	1	On campus	0	15	15	0	15	15
Fishery	IS	Low cost fish feed preparation methods and its use	1	On campus	0	15	15	0	15	15







Tailoring, stitching, embroidery, dying etc.														
Agril. Para-workers, para-vet training														
Other														
<b>Total</b>														
<b>Agricultural Extension</b>														
Capacity building and group dynamics														
Other														
<b>Total</b>														
<b>Grand Total</b>	<b>4</b>	<b>9</b>	<b>11</b>	<b>20</b>	<b>5</b>	<b>20</b>	<b>25</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>15</b>	<b>32</b>	<b>47</b>	

## I) Sponsored Training Programmes

### a) Details of Sponsored Training Programme

Sl. No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of participants	Sponsoring Agency
					PF/R/Y/EF			
1	Improved dairy farming with entrepreneurship skills	Livestock production and management	March	3 days	PF	01	40	ICAR
2	Fodder production for livestock feed management	Animal Nutrition Management	March	3 days	PF	01	40	ICAR
3	Important diseases in livestock and their management	Animal Disease Management	March	3 days	PF	01	40	ICAR
4	Improving livelihood through goat farming with scientific management practices	Livestock production and management	March	3 days	PF	01	40	ICAR
5	Small scale layer poultry farming for higher income per unit area	Livestock production and management	March	3 days	PF	01	40	ICAR

### b) Details of participation



Household nutritional security														
Economic empowerment of women														
Drudgery reduction of women														
Other														
Total														
<b>Agricultural Extension</b>														
Capacity Building and Group Dynamics														
Other														
Total														
<b>Grant Total</b>	<b>5</b>	<b>58</b>	<b>97</b>	<b>155</b>	<b>13</b>	<b>32</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>71</b>	<b>129</b>	<b>200</b>	

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

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	03	127	33	160	11.25	3	1	4	130	34	164
Kisan Mela	03	432	562	994	6.33	5	8	13	437	570	1007
Kisan Ghosthi	0	0	0	0	0	0	0	0	0	0	0
Exhibition	03	345	511	856	3.27	5	5	10	350	516	866
Film Show	10	123	127	250	22.8	2	3	5	126	132	258
Method Demonstrations	22	107	63	170	47	3	3	6	110	69	179
Farmers Seminar	4	110	90	200	28	5	3	8	113	93	206
Workshop	01	56	44	100	100	4	4	8	60	48	108
Group meetings	12	267	33	300	5	3	4	7	270	37	307
Lectures delivered as resource persons	18	205	245	450	5.3	3	3	6	208	248	456
Advisory Services	897	853	44	897	6.4	3	3	6	856	47	903
Scientific visit to farmers field	219	443	302	745	10.6	3	3	6	446	305	751
Farmers visit to KVK	1	1008	1083	2091	10.4	10	8	18	1018	1091	2109
Diagnostic visits	16	62	6	68	66.17	2	3	5	65	11	76
Exposure visits	2	87	13	100	15	3	3	6	90	16	106
Ex-trainees Sammelan	0	0	0	0	0.0	0	0	0	0	0	0
Soil health Camp	0	0	0	0	0.0	0	0	0	0	0	0
Animal Health Camp	3	98	62	160	90.62	1	1	2	99	64	163
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	1	41	9	50	-	5	2	7	46	11	57
Farm Science Club Conveners meet	2	48	12	60	3.3	3	3	6	51	15	66
Self Help Group Conveners meetings	3	-	75	75	36.0	2	2	4	2	77	79
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
Celebration of important days (Celebration of important days (Vigilance awareness week, Jal Shakti Abhiyan, Kisan Diwas, Millet Diwas, World Food Day, World Soil Day, Mahila Kisan Diwas, National Fish Farmers Day, World Fisheries day, OUAT foundation day, ICAR foundation day))	12	385	215	600	8	5	4	9	390	219	609

Sankalp Se Siddhi	-	-	-	-	-	-	-	-	-	-	-
Swachta Hi Sewa	-	-	-	-	-	-	-	-	-	-	-
Mahila Kisan Divas	1	-	50	50	0.0	1	3	4	1	53	54
Any Other (Plant health clinic)	3	60	15	75	15.7	4	4	8	64	19	83
Total	1236	4857	359	845	12.30	75	73	148	4932	3675	8607

### B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	9
Radio talks	0
TV talks	5
Popular articles	1
Extension Literature	7
Other, if any	

### 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
Blackgram		6 kg	480	1	2	8	2	1	1	10	5
Greengram		8kg	520	2	1	1	0	5	1	8	2
Grand Total		14 kg	1,000								

#### Production of planting materials by the KVKs



Bio-fertilizers(Vermicompost)	4650 kg	69,750			193	88	225	65	566	212
Azolla	41.5 kg	1,660	148	59						
Bio-pesticide										
Bio-fungicide										
Bio-agents (honey)	16.75kg	6,700	66	15	46	25	98	36	210	76
Others, please specify. Mushroom spawn					15	2	166	45	239	69
Mushroom (Oyster)	3012 no.	46,180								
Paddy straw	80.75 kg	6,904	58	22						
<b>Total</b>	<b>4789 kg</b> <b>3012 no.</b>	<b>1,31,194</b>	<b>272</b>	<b>96</b>	<b>254</b>	<b>115</b>	<b>489</b>	<b>146</b>	<b>1015</b>	<b>357</b>

## 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
<b>Dairy animals</b>											
Cows											
Buffaloes											
Calves											
Others (Pl. specify)											
<b>Small ruminants</b>											
Sheep											
Goat											
Other, please specify											
<b>Poultry</b>											
Broilers											
Layers											
Duals (broiler and layer)	(Kadaknath, Aseel, RIR, WLH)	3021	1,79,875	148	59	193	88	225	65	566	212
Japanese Quail	37	592	105	24	98	88	211	68	414	180	37
Turkey	10 no. (20kg)	8,000	147	54	205	61	158	54	510	169	10 no. (20kg)
Emu											
Ducks											
Others (Pl. specify)	Adult bird	24.8 kg	6,110	28	12	14	11	29	21	71	43
		628	6,280	41	21	24	12	10	12	75	45
<b>Piggery</b>											
Piglet											
Hog											
Others (Pl. specify)											
<b>Fisheries</b>											
Indian carp	IMC Advanced Fry	52500	59,000	245	55	147	35	259	88	651	178
Amur carp		30 kg	15,000	14	8	10	7	28	11	52	26
Tilapia advanced fry		1500	7500								
Fish fingerlings (IMC)		1400	2,800	22	14	35	22	54	27	111	63
Spawn		30kg	15,000	14	5	28	9	33	28	75	42

Others (Pl. specify) ornamental brood fish		4000	40,000	125	25	87	25	198	45	410	95
<b>Grand Total</b>		<b>59486 no. 104.8 kg</b>	<b>3,40,157</b>	<b>889</b>	<b>277</b>	<b>841</b>	<b>358</b>	<b>1205</b>	<b>419</b>	<b>2935</b>	<b>1053</b>

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

iii) Financial Progress

Fund received (2019-20, 2020-21, 2021-22 and 2022-23)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2019-20				
2020-21				
2021-22				
2022-23				

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	Climate resilient technologies for augmenting livestock production and enhancing farmer's income under smallholder farming system	Avijit Halder, D. Kumar, <b>Monalisa Behera</b> , S. Ghosh, S. K. Joshi, U. Das, A. Kumar and S.K. Roy	Indian Journal of animal health, 2022, 61 (2)-December, Special Issue: 41-54	Mass
	Farmers perception of drought and adaptation in midcentral table land zone of Odisha	Bineeta Satpathy, <b>Monalisa Behera</b> and RP Mishra	The Pharma Innovation Journal 2022; SP-11(10): 564-568	Mass
	Direct and residual effect of nutrient management and rice establishment methods on productivity, profitability, nutrient uptake and resource use efficiency in rice ( <i>Oryza sativa</i> L.)-groundnut ( <i>Arachis hypogaea</i> L.) cropping system	Samant, T.K., Garnayak, L.M., Paikaray, Mishra, K.N., Panda, R.K. and Swain, S.K	<i>Legume Research</i> , 39-345. (6.67) DOI <a href="https://doi.org/10.18805/LR-4762">https://doi.org/10.18805/LR-4762</a>	
	Improvement on growth, yield, economics and soil fertility of blackgram ( <i>Vigna mungo</i> L.) under integrated nutrient management	Samant, T.K., and Mishra, D	<i>International Journal of Bio-resource and Stress Management</i> , 14(2): 316-321. DOI: <a href="https://doi.org/10.23910/1.2023.3302">https://doi.org/10.23910/1.2023.3302</a>	
	Improvement of productivity, agro-meteorological indices, energetics and nutrient balance of rice-groundnut cropping system.	Samant, T.K., Garnayak, L.M. and Paikaray, R.K	<i>Bangladesh Journal of Botany</i> , 51(3): 477-486. DOI <a href="https://doi.org/10.3329/bjb.v51i3.61994">https://doi.org/10.3329/bjb.v51i3.61994</a> .	
	Effect of Nutrient Management and Rice Establishment Methods on Biochemical and Physiological	Samant, T.K., Garnayak, L.M., Paikaray, R.K., Mishra, K.N., Panda, R.K., Swain, S.K. ,	<i>J. Indian Soc. Coastal Agric. Res.</i> 40(1):38-45. DOI <a href="https://doi.org/10.54894/JISCAR.40.1.2022">https://doi.org/10.54894/JISCAR.40.1.2022</a>	



	Attributes, Yield and Economics of Rice ( <i>Oryza sativa</i> L.) in Rice-Groundnut Cropping System in Coastal Odisha.	Sarangi, S.K. and Jena, S.N.	117229	
Seminar/conference/symposia papers				
Books				
Bulletins				
News letter	Krishi Taranga, October-2021-March-2022 Krishi Taranga, April-2022-September-2022	KVK, Angul	2 (1000 copies)	350
Popular Articles	Turkey palana sambandhuya abasyakiya gyana kausala Chasira sansara (inagurated during foundtion day 2022)	Dr. Monalisa Behera & Dr. Debasis Mishra	-	Mass
Book Chapter				
Extension Pamphlets/literature	Pest and disease management in organic way	Dr.Debasis Mishra Dr.Ipsita Mishra Dr.T.K Samant	500	Mass
	Leaflet on “Turkey palana”	D. Monalisa Behera & Dr. Debasis Mishra	500	Mass
	Booklet on “Ghara aganare unnata kismara kukuda chasa”	Dr. Monalisa Behera & Dr. Debasis Mishra	500	Mass
	Booklet on “Paramparika paddhati re pranimanankara bivinna gurutwapurna rogara chikiccha byabastha	Dr. Monalisa Behera & Dr. Debasis Mishra	500	Mass
Technical reports	Progress Report,Monthly achievement,SAC ,Special Celebration,Swachhata, Success story documentation,Case studies,Summary Report,etc	All staff	-	-
Electronic Publication (CD/DVD etc.)				
TOTAL				

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	“Recent Technologies of Livestock Based Integrated Farming System for Doubling Farmers Income” (Through Online Mode)	National Refresher Course (NRC 2022) on “Recent Technologies of Livestock Based Integrated Farming System for Doubling Farmers Income” (Through Online Mode)	Dr. Monalisa Behera Scientist (Animal Science), KVK, Angul	01 to 21 February, 2022, 21 days	College of Veterinary Science and Animal Husbandry, Birsa Agricultural University, Ranchi, Jharkhand  In Association with  ICAR-National Agricultural Higher Education Project (NAHEP) &  National Agriculture Development Cooperative Ltd (NADCL)  Baramulla (UT of J & K)
2.	FPO management	Preparation and management of FPOs in the district	Dr. Gyanaranjan Sahoo Scientist (Forestry)	19.12.22 to 21.12.22 3 days	DEE
3.	National Workshop on Natural Farming	National Workshop on Natural Farming	Dr.T.K Samant Scientist (Agronomy)	03.12.2022	RVSKVV, Gwalior
4.	Orientation-cum-Training programme of the KVKs & implementing Natural Farming	Orientation-cum-Training programme of the KVKs & implementing Natural Farming	Dr.T.K Samant Scientist (Agronomy)	12.12.2022 & 13.12.2022	Natural Farming Training Centre, Gurukul, Kurukshetra, Haryana
5.	Capacity Building Workshop on Natural Farming	Capacity Building Workshop on Natural Farming	Dr.T.K Samant Scientist (Agronomy)	15.02.2023 & 16.02.2023	West Bengal University of Animal & Fishery Sciences, Kolkata
6.	National Workshop on Natural Farming	National Workshop on Natural Farming	Dr.T.K Samant Scientist (Agronomy)	03.12.2022	RVSKVV, Gwalior

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	Mr Kalandi Charan Roul
Address	Village-Sanjamura, Block-Kishorenagar, Dist- Angul
Contact details (Phone, mobile, email Id)	9668400163
Landholding (in ha.)	0.8 ha
Name and description of the farm/ enterprise	Mr Roul is practicing rice cultivation in 2acre of land, along with poultry farming under semi-intensive system. After DFI intervention by krishi vigyan Kendra, Angul he has established a semi-intensive poultry unit of 200 bird capacity. Under continuous guidance by KVK he succeeded in poultry farming with adoption of new improved poultry breeds like Aseel, Kadaknath and colour broilers.
Economic impact	The farmer used to get an annual net income of Rs. 24,500/- from rice and poultry farming in his 2 Ac farm area. He faced problems like low income from rice and from desi poultry birds. With DFI interventions introduction of poultry breeds like Kadaknath, colour broiler and Aseel, he is getting an annual net income of Rs. 1,19,500/-. He has also started rearing turkey and quail under diversified poultry sector. The poultry birds he produced were sold at a good market price in his own village and there was good demand of the poultry meat produced from his farm.
Social impact	He is able to manage his family properly with the income from his farm without any financial stress. A good number of farmers from his village also started small backyard units by taking technical guidance from Mr. Roul. Visitor also attracted to his farm to see diversified poultry species like chicken, turkey and quail.
Environmental impact	The poultry litter that comes out from the farm is being utilized in agricultural activity with a good return from that sector also.
Horizontal/ Vertical spread	Now 20 more farmers of his village initiated new poultry farms under his guidance.
Good quality photographs (2-3)	



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

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology
1.	Preparation of herbal product For treatment of Lumpy skin disease	Sri Lalmohan Singh Village-Purikia Block-Banarpal Mob. No.- 918018471734	Preparation of herbal product by mixing 50 gms of bitter guard leaf and 25 gms of <i>C. longa</i> (For 250 kg body weight). This composition is being fed to cows with LSD in empty stomach for 5 days.

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

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
1	Diagnostic field visit	Farmers and Farm women
2	Group discussion	Rural Youth
3	Interaction with farmers & line officers	Farmers and Farm women
4	PRA Tools	Inservice
5	Interaction with Line department	Farmers and Farm women
6	PRA Tools	Rural Youth
7	Group discussion	Inservice
8	Discussion in Review meeting; Orchard management	Farmers and Farm women
9	PRA Tools, Group discussion	Rural Youth
10	Stake holders meet	Inservice
11	Feedback	Rural Youth
12	PRA Group discussion	Inservice
13	Stakeholders meet	Inservice

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

Sl. No	Name of the Equipment	Qty.
1	Kel plus Automatic nitrogen or prote estimation system	1
2	Conductivity meter	1
3	Flame Photometer	1
4.	Automatic soil auger and bit	1
5.	Micro processor based pH meter	1
6.	Electrical stirrer	1
7.	Sieve with Brass Frame	1
8.	Refrigerator	1
9.	Digital analytical balance	1
10.	Hot Plate	1
11.	Hot Air Oven	1
12.	Servo Stabiliser	1
13.	Triple distillation set	1
14.	Binocular microscope	1
15.	Digital Spring Balance	1
16.	Water Bath	1
17.	Centrifuge	1
18.	Spectrophotometer	1
19.	Mridaparikshak	2
20.	Regent Refilling Kit	3
21.	Kits for Mridaparikshak (Glasswares)	

## 3.11.b. Details of samples analyzed so far :

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

## 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
01	World Soil Day	50				50

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

No of training programme	No of demonstrations	No of plant material	Visit by the	Visit by

		produced	farmers	the officials

## 3.13. Technology week celebration

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

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

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
17.10.2022	Sj Mahesh Sahoo, Hon'ble Member of Parliament, Dhenkanal	Attended PM Kisan Samman Sammelan programme
13.11.2022	Dr. Pravat Ku Roul, Hon'ble Vice Chancellor, OUAT, Bhubaneswar	Attended training programme on "Jal Shakti Abhiyan"
21.12.2022	Dr. H. K. Sahoo, JDE, OUAT, Bhubaneswar	SAC meeting

## 4. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Artificial brooding management in chicks	10	70%	5,428/-	7,621/-
Backyard poultry farming with improved poultry breed "Kadakanath"	55	36.3%	5,700/-	9,635/-
Bypass fat feeding @ 15-20gm/kg of milk production + 50 gm Mineral mixture/ day/ cow during first 3 months of lactation	35	14.28%	10,463/-	14,814/-
Use of Multiple stocking and multiple harvesting method by Stocking of Catla: Rohu: Mrigal @ 5000/ha at 30:40:30 basis.	15	38	75,000/-	3,00,000/-
Uniform spreading of Probiotics by mixing with feed i.e. Washorich @ 15 gm/kg feed twice daily upto harvest	13	41	64,000/-	1,12,000/-
Stocking density @ 5000 fingerlings / ha.	15	34	82,000/-	2,45,000/-
Use of sinking crumbled feed @ 5 % of total biomass	12	37	71,000/-	2,38,000/-
Application of Zymac @5 kg/acre in dry form, Envomin @10kg /acre mix with 150 litre water and Jinong @ 1litre/acre mix with 100 litre water at every 3 months interval	15	12	77,000/-	1,87,000/-

Culture of livebearers @ 130 numbers of livebearers (one species/ variety) stocked with a male and female ratio of 1:3	20	24	-	4,055/ 300 sq.ft
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NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants

#### 4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread
Stocking of IMC yearlings @ 3000 no./ha. and harvest at every 3-4 months interval by giving feed (GNOC+Ricebran) at 1:1 ratio for total 10 months culture period	55 no./ 40.8 ha.
Use of Jayanti rohu for composite Pisciculture at the ratio of 30:40:30 (Catla, Jayanti rohu & Mrigal)	57 no./46.2 ha.
Stocking of IMC @5000 no./ha. and Fresh water Prawn @7500 no. / ha.	68 no./ 32.6 ha.
CIFAX @ 400 ml / ac. mixed with 200 ltr. water applied at the onset of disease / before disease occurrence.	56 no./ 37.2 ha.
Use of floating feed (2 mm) @ 8 % of the body weight of fingerlings of 100 gm and sinking feed @ 6-5 % of the body weight	59 no./28 ha.
Culture of livebearers @ 130 numbers of livebearers (one species/ variety) stocked with a male and female ratio of 1:3	18 no./5400 sq.ft.area
Backyard poultry farming with improved poultry breed "Kadakanath"	The technology was getting popularised in the district. A total of 57 no of farmers are rearing this breed under semi-intensive system.

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	Stocking of 1,00,000 IMC fry, feeding @ 8% of biomass (1 <sup>st</sup> month) & 6% (rest 2 months), liming @ 80-100 kg/ac in seasonal water bodies for fingerling production	About 83 no. of farmers adopt this technique and spread to 41.5 ha.	Increases yield by 104.54 % over conventinal practice & income by 1,74,000/-

#### 4.4. Details of innovations recorded by the KVK

Thematic area	
Name of the Innovation	
Details of Innovator	

Back ground of innovation	
Technology details	
Practical utility of innovation	

#### 4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	
Name & complete address of the entrepreneur	
Role of KVK with quantitative data support:	
Timeline of the entrepreneurship development	
Technical Components of the Enterprise	
Status of entrepreneur before and after the enterprise	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	
Horizontal spread of enterprise	

#### 4.6. Any other initiative taken by the KVK

### 5. LINKAGES

#### 5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
CPDO, Bhubaneswar	Procurement of poultry
DSWO, Angul	Capacity building training to SHGs under Mission Shakti for poultry farming & Goat farming, In service training, celebration of International Women Day
Veterinary Dept.	Organisation of Animal Health Camp
District Administration	Sanction of Training Hall
Agriculture Dept.	World Soil Day, Strategy & RE meeting, Soil test
KVK, Dhenkanal	Sharing of Resource person
Watershed Dept.	Supply of seedlings & saplings
Horticulture Dept.	Verification of saplings
Deptt. Mishan Shakti	Rural youth training, celebration of women in agriculture day
OLM	For TOT
Reliance Foundation, Bhubaneswar	Audio Programmes & You tube Live phone-in Programmes for creating awareness regarding Biofloc fish farming technique & other Govt. schemes
CIFA, Bhubaneswar	Procurement of Fish seed
NFFBB, Bhubaneswar	Procurement of Amur Carp seed & other minor Carps
District Fishery department, Angul & World	Celebration of World Fisheries day



fish Centre, Bhubaneswar	
Reliance Foundation, Bhubaneswar	Audio Programmes & You tube Live phone-in Programmes for creating awareness regarding Biofloc fish farming technique & other Govt. schemes

5.2. List of special programmes undertaken during 2022 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.)

## 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.									
	Total								

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	

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.					

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.							

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)
March	12	04	
November	10	05	
November	15	04	
September, October	25	02	
<b>Total :</b>	<b>62</b>	<b>15</b>	

(For whole of the year)

## 6.6. Utilization of staff quarters

Whether staff quarters has been completed: Yes

No. of staff quarters: 3

Date of completion: 2008

Occupancy details:

Months	Q I	Q II	Q III	Q IV	Q V	Q VI
	Q1- Mr Gyanaranjan Dash					
	Q2- Mrs. DharitriPatra					
	Q3- Dr. Monalisa Behera					

7. FINANCIAL PERFORMANCE

## 7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
KVK	SBI, ADB, Hularisingha	Sikshyakpada, Angul	10220951144
RF	SBI, ADB, Hularisingha	Sikshyakpada, Angul	30160005025
ATMA	SBI, ADB, Hularisingha	Sikshyakpada, Angul	31027373302

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

Item	Released by ICAR		Expenditure		Unspent balance as on -
	Kharif	Rabi	Kharif	Rabi	
Groundnut	2.40	1.2	1.79461	0.88771	0.91768
Sesame	0.50	0	0.46209	0	0.03791

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2013
	Kharif	Rabi	Kharif	Rabi	
Blackgram	0.90	0	0.70254	0	0.19746
Pigeonpea	0.90	0	0.87354	0	0.02646

## 2019.5. Utilization of KVK funds during the year 2022-23 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	Pay & Allowances	115.81	115.81	103.09727
2	Traveling allowances	1.2	1.2	1.2
<b>3</b>	<b>Contingencies</b>			<b>27.5</b>
A	Stationery, telephone, postage and other expenditure on office running, publication of newsletter			
B	POL, repair of vehicles, tractor and equipments	2.6	2.6	2.6
C	Meals/refreshment for residential and non-residential trainings			
D	Training materials (Need based materials and equipments for conducting the training)	1.95	1.95	1.95
E	FLD	0.98	0.98	0.98
F	OFT	0.97	0.97	0.97
G	SCSP	21.0	21.0	16.50770
H				
I				
J	Swachhta Expenditure	0.17250	0.17250	0.17250
<b>TOTAL (A)</b>		<b>144.6825</b>	<b>144.6825</b>	<b>127.4775</b>
<b>B. Non-Recurring Contingencies</b>				
<b>1</b>	<b>Equipment and furniture</b>			<b>8.0</b>
	Procurement of tractor on replacement basis	7.50	7.50	7.50
	Information Technology	0.50	0.50	0.50
<b>2</b>	<b>Works</b>			<b>20.0</b>
	Boundary wall and fencing	10.0	10.0	10.0
	Farm pond	5.0	5.0	5.0
	Repairing of Admn building	5.0	5.0	5.0
<b>3</b>	<b>Library</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>
<b>TOTAL (B)</b>		<b>28.1</b>	<b>28.1</b>	<b>28.1</b>
<b>C. REVOLVING FUND</b>				4.97885
<b>GRAND TOTAL (A+B+C)</b>				

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year (Kind + cash)
2019-20	3.76379	4.94538	1.36516	3.34400 (Rs.4.0lakhs refunded to DEE, OUAT)
2020-21	3.34400	6.06424	2.85557 (Including transfer of Rs.10,000/- towards min. balance under DAMU A/c No. 40097571224)	8.91113 (As per Cash Book) (Including Best KVK Award Prize Money (Rs.2,25,000/- + Minimum Balance of Rs.10,000/- + Interest earned during 2019-2020 under R. Contingency A/c Rs.846/-)
2021-22	8.91113	<b>5.9*</b>	<b>2.07646*</b>	<b>8.73467*</b> (Rs.4.0 lakhs refunded to DEE, OUAT vide cheque no.507583/ dt.30.10.21)
2022-23	<b>8.73467*</b>	6.41914	4.97885	1.44029

- 7.6. (i) Number of SHGs formed by KVKs  
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities  
(iii) Details of marketing channels created for the SHGs

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	With both
BPH	02	Rabi	With AAO,DAO and CDAO Angul		
National Fish farmers Day	01	Kharif	District Fisheries office, Angul		
Animal health camp	03	Rabi	ARD dept.		

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)

8.2. Prevalent diseases in Livestock/Fishery

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

9.1. Nehru Yuva Kendra (NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

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

Type of message	No. of messages	No. of farmers covered
Crop	26	70624
Livestock	9	
Fishery	8	
Weather	3	
Marketing		
Awareness	1	
Training information		
Other	1	
<b>Total</b>	48	

#### 9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	99231
2.	No. of farmers registered in the portal	70624
3.	Mobile Apps developed by KVK	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	

#### 9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken

#### b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office		
2. Basic maintenance	1	2950
3. Sanitation and SBM	5	14,000
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)		
<b>Total</b>		<b>16,950/-</b>

## 9.6. Observation of National Science day

Date of Observation	Activities undertaken

## 9.7. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants

## 9.8. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used

Give good quality 1-2 photograph(s)

## 9.9. Details of 'Pre-Rabi Campaign' Programme

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

## 9.10. Details of Swachhta Hi Suraksha programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)

## 9.11. Details of Mahila Kisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Awareness programme, distribution of seed packets for kitchen garden	Bauligarh	50	-	-

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1	Sri. Chandan Kumar Agrawal	Panchamahala Mob. No. 9437030930	Dairy farming
2.	TrilochanaSahu	Handiguda, Chhendipada Mob.9777204526	Integrated farming system (Dairy, Poultry, Vegetables, vermicomposting)
3.	Mrs. Binapani Rout	Kusasingha, Banarpal, Mob. 9668187337	IFS (Dairy, Poultry, Vegetables, floriculture, vermicomposting, Mushroom)
4	Mr. Lalmohan Singh	Village-Purikia, Mob. 7377153574	Poultry, mushroom, Fishery and dairy
5	Mrs. Subhasini Das	Village- Nuakheta Mob. 7749085858	Mushroom and Mushroom Spawn
6.	Sri Prasanta Behera	Village-Paratara Mob.9937391459	Poultry
7.	Sri Malchand Rathi	Village- Tumuni Mob.7008479490	Dairy farming
8.	MrsMamata Sahoo	Village- Balipata Mob.7735168872	Mushroom
9.	Sri Abhaya Kumar Sahoo	Village- Barasingha Mob.9778384494	IFS (Dairy, Vegetables, Groundnut, vermicomposting, Mushroom)
10	Sri Dillip Kumar Setha	Village- Badadandasahi Mob. 6370646064	Honey Bee rearing
11	Sri Lambodar Behera	Village- Dinabandhupur Mob. 9438326831	Organic vegetable farming, Custom hiring, Weeding tools sale
12.	Pradeep Kumar Singh	Village- Budhapanka Mob.9938333002	Fishery
13.	Sri Dipen Kumar Pradhan	Village-Balasingha Mob. No-6371626090	Poultry
14.	Sri Kalandi Charan Roul	Village-Sanjamura Mob. No-9668400163	poultry

15.	Sri Pradeep Kumar Naik	Village-Karnapur Mob. No-7735321420	Goatery, Poultry, Dairy, Mango Orchard, Fish farming
16.	Sri Manoj Kumar Samal	Village-Budhapanka Mob. No.-9437745388	Poultry
17.	Sri Jayanta Sahu	Village-Banuasahi Mob. No.-8018494119	Rice, Poultry, Dairy and vegetables

## 9.13. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.			
2.			
3.			

## 9.14. Resource Generation:

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

## 9.15. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
20.04.2021	IMD	Yes

## 9.16. Contingent crop planning

Name of the state	Name of district/ KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Odisha	Angul	Varietal substitution, INM	5	205	Impact Based Forecast (IBF) prepared in view of the Cyclone "ASANI". Prekharif-- For drought prone upland/shallow lowland arrange drought tolerant varieties like Sahabhagi dhana, Swarna shreya. In-situ rainwater conservation. Mulching vegetables to conserve soil moisture. For upland direct seeded rice, arrange good quality seeds of varieties like CR Dhan 100 (Satyabhama), CR Dhan 101 (Ankit), CR Dhan 102, Sahbhagidhan, Phalguni, Vandana, Anjali, Khandagiri from reliable sources. For shallow



					<p>lowland transplanted rice, arrange good quality seed of varieties like CR Dhan 307(Maudamani), CR Dhan 303, CR Dhan 304, MTU 1001, MTU 1010, Naveen, CR Dhan 310, CR dhan 312, CR Dhan 314, DRR 44, Improved Lalat, CR Dhan 301 (Hue), CR Dhan 800, CR Dhan 404, Swarna, Pooja, SwarnaSub1 and BPT 5204 may be arranged .</p> <p>Kharif-Close the drainage holes and checks the seepage loss in direct sown medium land rice regularlyand plug the Gully.Maintenance of bond Apply FYM in seed furrows.When there is more than 50 % mortality , raise nonpaddy crops like Green gram (K-851, PDM -54.If the rice population is more than 50% area of weeding and adjust plant population by removing &amp; redistributing the hills and clonal propagation by Khelua method. Raise community nursery of rice for transplanting at a reliable water source. If the mortality is &lt; 50% the crop may be gap filled or Cultivate vegetable like Tomato, Brinjal, Chilli Sow the seeds at 5-6 Cm. depth by punji method (6-8 seeds at one point) at a spacing of 20 X 10 cm. and cover it with a mixture of FYM: SSP (10 :1) to avoid seedling mortality due to moisture stress . Use seed rate of 100-120 kg/ha. To maintain 40-60 plants / Mtr. Sqr.Do not practice beushing (blind cultivation) in rice, if the crop is more than 45 days old.</p>
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10. Report on Cereal Systems Initiative for South Asia (CSISA)

- a) Year:
- b) Introduction / General Information:

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

## 11. Details of TSP

### a. Achievements of physical output under TSP during 2022-2023

Programmes	Physical achievements
Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)	
On-farm trials (Number)	
Frontline demonstrations (Number)	
Farmers training (in lakh)	
Extension personnel training (in lakh)	
Participants in extension activities (in lakh)	
Seed production (in tonnes)	
Planting material production (in lakh)	
Livestock strains and fingerlings production (in lakh)	
Soil, water, plant, manures samples testing (in lakh)	
Provision of mobile agro – advisory to farmers (in lakh)	
No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	

### b. Fund received under TSP in 2022-23 (Rs. In lakh):

### c. Achievements of physical outcome under TSP during 2022-2023

Sl. No.	Description	Unit	Achievements
1	Change in family income	%	
2	Change in family consumption level	%	
3	Change in availability of agricultural implements/ tools etc.	No. per household	

### d. Location and Beneficiary Details during 2022-2023

District	Sub-district	No. of Village covered	Name of village(s) covered	ST population benefitted (No.)		
				M	F	T

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

Natural Resource Management

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

Crop Management

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

Livestock and fisheries

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

Institutional interventions

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

Capacity building

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

## Extension activities

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

Detailed report should be provided in the circulated Performa

## 13. Awards/Recognition received by the KVK

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

## Award received by Farmers from the KVK district

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

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

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

Sl. No.	Name of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator


## 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	Pisciculture	96.15 sq.mt	38000 nos.		55000	28	11
2	Mushroom	16 sq.mt	1.4q	6000	9500		
3.	Vermi-compost	16 sq.mt	10q	2500	10,000		
4.	Azolla	1 cu.mt	54 kg	-	540		

5.	Poultry	13.93 sq.mt	3021 birds	1,19,875	1,79,875
6.	Apiculture Unit	59.4 sq.mt	12 kg	-	4800

### 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 adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1.	Preparation of low cost poultry feed for backyard poultry and semi-intensive poultry farming	Preparation of poultry feed with <b>ground maize 30%</b> , <b>GNOC 23%</b> , <b>Fish meal 10%</b> , <b>wheat bran 15%</b> , <b>Broken rice 20%</b> , <b>Di calcium phosphate 1%</b> , <b>Vitamins aminoacids 1.6%</b> , <b>salt 0.4%</b>	<b>4,070/- /25 birds</b>	36	

1	Multiple stocking and multiple harvesting technology in carp culture	Single Stocking @ 6,500 fingerlings / ha & harvesting at every 3-4 months interval with seed substitution and adopting semi-intensive culture practice	3,88,267	24	
2	Inclusion of medium carp species with IMC	Incorporation of <i>labeo bata</i> @ 15 % or 1500 no./ha in the Major Carp system i.e. (Catla :Rohu :Mrigal) @ 10000 no. /ha and culture for 6 months	319100	23	
3	Introduction of ornamental fishery in landless situation	<ul style="list-style-type: none"> <li>▪ Ornamental Fish, Live-bearers (130 Nos.) @ =(M1:F4), breed 3 times / yr.</li> <li>▪ feed mixture 23kg /yr</li> <li>▪ Potassium permanganate @ 5 mg/lit</li> </ul>	3290	14	

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I (up-to 15.03.2018)					
II (up-to 24.04.218)					
Total					

## 19. Information on Visit of Ministers to KVKs, if any

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

## 20. a) Information on ASCI Skill Development Training Programme, if undertaken during 2022

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 2022

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	
Rearing of honey bee	Scientific methods of honey bee rearing	32hrs	1	0	1	0	9	1	11	1	12	7200
Rearing of honey bee	Scientific methods of honey bee rearing	32hrs	0	15	0	0	0	0	0	15	15	9000
Production of biopesticides	Preparation procedures of biopesticides and its use	16hrs	4	11	15	0	0	0	4	11	15	4500
Poultry production	Layer poultry farming	40 hrs	05	05	0	0	0	00	05	05	10	7500

## 21. 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

## 22. Information on Krishi Kalyan Abhiyan Phase-III, if applicable

## a) Training achievements

Name of KVK	Period	No. of Training on diversified farming practices for doubling farmers' income organized	No. of farmers trained	
			Male	Female
	01.01.2022 to 31.12.2022			

## b) Other achievements

Sl. No.	Particulars	January, 2022 to December, 2022
1	Number of demonstrations other than oilseeds and pulses	
2	Number of demonstrations on oilseed crops	
3	Number of demonstrations on pulse crops	
4	Number of farmers trained	
5	Number of participants in Extension activities	
6	Number of farmers for Mobile Advisory	
7	Production of seeds (in quintal)	
8	Production of planting material (Number)	
9	Number of soil sample tested	
10	Number of farmers covered in Climate Resilient villages	
11	Number of farm families covered in Farmer FIRST project	
12	ARYA project: Number of youth trained	
13	ARYA project: Number of entrepreneurial activities started	
14	Number of farm families in DFI villages	

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

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

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



**OFT on low cost concentrate mixtures to attain correct time puberty in CB Heifers**



**OFT on nutrient management in groundnut**





**OFT on Integrated Management of Sheath Blight in Rice**



**Demonstration on medium duration HYV rice, Maudamani : CR Dhan 307**



**Demonstration of Integrated management of DBM in cole crops**



**Demonstration on deworming and supplement feeding on body weight gain of kids**



**CFLD Groundnut (Rabi) at flowering stage**



**Groundnut (Rabi) Crop cutting on Field Day**



**Plant health clinic**



**Animal health Camp**