

## PROFORMA FOR ANNUAL REPORT2021 (January-December 2021)

### 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	
<b>Krishi Vigyan Kendra, Kandhamal</b> At-Srirampada Po-G. Udayagiri Dist-Kandhamal Pin-762100 (Odisha)	06847- 260707		kvkkandhamal.ouat@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
<b>Odisha University of Agriculture &amp; Technology,</b> Bhubaneswar	0674- 2397362		deanextensionouat@yahoo.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Narayan Bar	-	8917575257	barnarayan@gmail.com

#### 1.4. Year of sanction of KVK:1993

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. Narayan Bar	Sr. Scientist & Head	Agril. Ext	84,700/-	08.04.2010	Permanent	
2	Subject Matter Specialist	Dr. Sidhartha Kar	Scientist	Horticulture	77,500/-	01.10.2009	Permanent	
3	Subject Matter Specialist	Sri Sujit Kumar Mukhi	Scientist	Soil Science	77,500/-	23.10.2009	Permanent	
4	Subject Matter Specialist	Ms Sripali Pradhan	SMS	Agronomy	59,500/-	13.06.2018	Permanent	
5	Subject Matter Specialist	Ms Sanghamitra Biswal	SMS	Agricultural Engineering	59,500/-	06.12.2018	Permanent	
6	Subject Matter Specialist	-	-	-	-	-	-	
7	Subject Matter Specialist	-	-	-	-	-	-	
8	Programme Assistant	Ms Sumitra Hembram	P.A. (Tech.)	Home Science	37,600/-	09.08.2018	Permanent	
9	Computer Programmer							
10	Farm Manager	Ms Sushree Sibanee Sardar	Farm Manager	Plant Breeding & Genetics	36,500/-	08.02.2019	Permanent	
11	Accountant / Superintendent	-	-	-	-	-	-	
12	Stenographer	Sri Pabitra Mohan Pradhan	Jr. Steno-cum-Computer Operator	-	29,600/-	29.07.2015	Permanent	
13.	Driver	Sri Maheswar Pradhan	Driver-cum-Mechanic	-	23,100/-	13.02.2014	Permanent	
14.	Driver	Sri Gopal Pradhan	Driver-cum-Mechanic	-	23,100/-	20.07.2015	Permanent	
15.	Supporting staff	Sri Aparti Chhatoi	Peon-cum-Watchman	-	22,900/-	28.07.2008	Permanent	
16.	Supporting staff	Sri Arjuni Charan Swain	Peon-cum-Watchman	-	22,900/-	02.08.2008	Permanent	



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 (As on 31.03.2021)	Present status
Bolero (Mahindra Di Turbo)	2010-11	5,52,236/-	1,85,340	Running
Tractor (Mahindra 475 DI – Bhumiputra)	2004-05	3,74,223/-	-	Running
Bike (Hero Honda Passion Pro)	2009-10	49,965/-	57,442	Running

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
<b>a. Lab equipment</b>				
Soil Testing Laboratory	2004-05	8,56,808.00	Working condition	ICAR
Mushroom Spawn Production Unit	2010-11	2,50,000.00	Working condition	RKVY
<b>b. Farm machinery</b>				
Agrimate power mist blower	2016-17	8,400	Working condition	ICAR
Hydraulic Trolley	2016-17	1,30,000	Working condition	ICAR
Land Leveler	2016-17	15,480	Working condition	ICAR
Hedge cutter	2016-17	15,835	Working condition	ICAR
Power Tiller	2016-17	1,93,000	Working condition	ICAR
Power weeder	2020-21	50,000	Working condition	Biotech KISAN
Poultry Hatcher	2020-21	78,800	Working condition	Biotech KISAN
<b>c. AV Aids</b>				
Ahuja Conference Audio System	2017-18	92,135	Functioning	ICAR
Panasonic LED TV (42")	2018-19	42,000	Functioning	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
MB plough	2016-17	25,000	Working condition	ICAR
Soil Auger	2016-17	48,300	Working condition	ICAR
Seed cum fertilizer drill	2016-17	55,000	Working condition	ICAR
Battery operated sprayer(2nos.)	2015-16	10,650	Working condition	ICAR

Cultivator	2006-07	5,630	Working condition	ICAR
Rotavator	2006-07		Working condition	ICAR

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

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	21.01.2022	40	Demonstration of technologies developed by DLAP, Phulbani	Training and an OFT on in-situ soil moisture conservation in Tomato-Radish sequence during Kharif 2021 was conducted in 07 different location. Area covered 1 ac/Nos of beneficiaries-07 and increase in yield over FP is-104.5%	
			Development of mushroom entrepreneurs	8 no. of training programmes has been organized for mushroom spawn production and cultivation in 8 villages and 250 nos beneficiaries has been trained. 10 no of mushroom entrepreneurs has been developed. Mrs. Kuldeep kaur-Net income in Oyester- Rs.52000, Paddy straw-12000 Mr.Samson Nayak-Oyester-Rs.85000/Yr	
			Development of animal husbandry demo units at KVK Kandhamal campus	Duckery(Kakhi cambel-10 nos), guinea fowl bird-4nos, Quail Bird-20 nos andTurkey-2 nos demo units has been established. Poultry demo unit with improved poultry breeds Aseel(21 nos) and Kaling brown(15 nos) are maintained	
			To publish a booklet on use of vermicompost for production of different crops	A Vermi-composting training manual(800nos) has been published in odia and provided among 521 nos Farmer and Farm women in different training programme.	
			Fish fingerling production unit at KVK campus	A color fish breeding unit( Gopi and molly-230 nos) has been established at KVK campus and provided the color fish to 20nos of different SHG and planning to develop a village through SHG for production of color fish.Fish fingerling production unit is under construction.	
			Intercropping with various crops should be popularized by different proven technologies developed by DLAP,	A Demonstration on organic nutrient management in Maize + Cowpea (2:2) intercropping system has been undertaken. Area covered 1ac/Nos of beneficiaries-10/ Increase in yield-	

			Phulbani	28.1% over farmer practice	
			Popularizing Ghumusar goat breed in collaboration with the ARD department of the district in different blocks	It is planned to be done in the coming year 2022-23.	
			Assessment of bushy type black pepper variety by the KVK	Training has been imparted to 50 nos of farmers about the cultivation of bushy type black pepper Due to non availability of planting material assessment not possible. It is planned to be done in coming year	
			Popularization of black rice varieties	6 nos of Training(150 nos beneficiaries ) and a demonstration (5 ha) has been done in black rice Varieties under TSP Programme	
			Macro-propagation techniques in various fruit crops	Demo unit of tissue culture banana(Var-G-9) and pineapple(Var- Queen)done in KVK campus	

*\* Salient recommendation of SAC in bullet form*

*Attach a copy of SAC proceedings along with list of participants*

#### **PROCEEDINGS OF THE SCIENTIFIC ADVISORY COMMITTEE MEETING OF KVK KANDHAMAL, G.UDAYAGIRI**

The 26<sup>th</sup> Scientific Advisory Committee meeting of KVK, Kandhamal was held on 21.01.22 at 10.30 am in the training hall of KVK, Kandhamal by Online-Offline mode. The meeting was conducted under the Chairmanship of Dr. Prasanjit Mishra, OUAT, Bhubaneswar. Dignitaries like Dr. F. H. Rahman, Principal Scientist, ICAR-ATARI, Zone-V, Kolkata, and Dr.. S. P Sangramsing, Joint Director, Extension Education, OUAT, was also present in this meeting. The other members present in the meeting are annexed herewith.

At the outset, Dr. Narayan Bar, Senior Scientist and Head, KVK, Kandhamal after a brief welcome to the Hon'ble members requested the Chairman and other dignitaries to inaugurate & conduct the SAC meeting. After a brief introducing remark, the Chairman asked the Senior Scientist and Head, KVK, Kandhamal to start the proceedings as per the agenda.

#### **AGENDA -1- APPROVAL OF THE PROCEEDING OF LAST SAC MEETING**

The Senior Scientist and Head appraised that the proceeding of the last SAC meeting was circulated to all the members. He also presented the proceedings in brief. The Chairman approved the proceeding after taking consent of the members.

## AGENDA 2 – ACTION TAKEN ON THE PROCEEDING OF LAST SAC MEETING

HELD ON 20.01.2021

S. No.	Recommendations	Activities taken
1	Demonstration of technologies developed by DLAP, Phulbani	Training and an OFT on in-situ soil moisture conservation in Tomato-Radish sequence during Kharif 2021 was conducted in 07 different location. Area covered 1 ac/Nos of beneficiaries-07 and increase in yield over FP is-104.5%
2	Development of mushroom entrepreneurs	8 no. of training programmes has been organized for mushroom spawn production and cultivation in 8 villages and 250 nos beneficiaries has been trained. 10 no of mushroom entrepreneurs has been developed. Mrs. Kuldeep Kaur-Net income in Oyester- Rs.52000, Paddy straw-12000 Mr.Samsol Nayak-Oyester-Rs.85000/Yr
3	Development of animal husbandry demo units at KVK Kandhamal campus	Duckery(Kakhi cambel-10 nos), guinea fowl bird-4nos, Quail Bird-20 nos and Turkey-2 nos demo units has been established. Poultry demo unit with improved poultry breeds Aseel(21 nos) and Kaling brown(15 nos) are maintained
4	To publish a booklet on use of vermicompost for production of different crops	A Vermi-composting training manual(800nos) has been published in odia and provided among 521 nos Farmer and Farm women in different training programme.
5	Fish fingerling production unit at KVK campus	A color fish breeding unit( Gopi and molly-230 nos) has been established at KVK campus and provided the color fish to 20nos of different SHG and planning to develop a village through SHG for production of color fish.Fish fingerling production unit is under construction.
6	Intercropping with various crops should be popularized by different proven technologies developed by DLAP, Phulbani	A Demonstration on organic nutrient management in Maize + Cowpea (2:2) intercropping system has been undertaken. Area covered 1ac/Nos of beneficiaries-10/ Increase in yield-8.1% over farmer practice
7	Popularizing Ghumusar goat breed in collaboration with the ARD department of the district in different blocks	It is planned to be done in the coming year 2022-23.
8	Assessment of bushy type black pepper variety by the KVK	Training has been imparted to 50 nos of farmers about the cultivation of bushy type black pepper Due to non availability of planting material assessment not possible. It is planned to be done in coming year
9	Popularization of black rice varieties	10 nos of Training(150 nos beneficiaries ) and a demonstration (5 ha) has been done in black rice Varieties under TSP Programme
10	Macro-propagation techniques in various fruit crops	Demo unit of tissue culture banana(Var-G-9) and pineapple(Var- Queen)done in KVK campus

### **AGENDA 3 – ACHIEVEMENT MADE BY THE KVK**

The Senior Scientist and Head presented the overall achievement made by KVK, Kandhamal during the year 2021-22.

1. **Training** – KVK has conducted 77 training programme for 1925 numbers of practicing farmers and farm women, 05 for Rural youths involving 120 participants & 03 nos of Inservic trainings involving 45 participants during 2021-22.
2. **Front Line Demonstration** – KVK has conducted 19 numbers of Front Line Demonstrations during 2021-22 on the thematic areas of INM, IPM, IDM, IWM, Organic farming, Varietal evaluation, Optimum land utilization methods, Farm implements & machineries, Drudgery reduction, Nutritional security and Small-scale income generation activities in 19 ha area involving 190 beneficiary farmers/farm women. A total of three (02) FLDs under Oil Seed and Pulse crops have been undertaken on Mustard and Niger covering an area of 30 ha involving 75 beneficiaries. Under Tribal Sub-Plan (TSP), KVK has conducted three (03) numbers of FLDs on ICM of Cabbage, Cauliflower and Garden Pea covering a total area of 6 ha.
3. **On Farm Trial:** A total of 9 nos. of On Farm Trials (OFTs) were conducted during 2021-22 on the thematic areas of INM, Varietal evaluation, IWM, Crop establishment method, IDM, IPM, Farm implements & machineries and Small-scale income generation activities involving 63 numbers of practicing farmer beneficiaries.
4. **Extension Activities:** KVK has also conducted various extension activities such as 5 numbers of field days, 01 Kissan Melas, 01 Exhibitions, 14 CD Film shows, 02 Ex-trainees meet and several other activities like Diagnostic Field Visits & KMAS, publication of literature & news-letters, 02 numbers of Soil health campaigns, Celebration of special days like Agril. Education Day, Jai Kisan Jai Vigyan, Mahila Kisan Divas, Women in Agriculture Day, World Food Day, World Meteorological Day, World Soil Day and 01 numbers of farmers-scientist interactions etc.

### **AGENDA 4 – PRESENTATION OF ACTION PLAN FOR 2022-23**

The Senior Scientist and Head presented the detailed Action Plan developed by KVK for the year 2022-23 based on the Survey analysis, secondary information available, recommendation from the R-E linkage meetings and suggestions from the previous SAC meeting.

1. **Training** – KVK has proposed to conduct 74 numbers of training programmes for 1850 practicing farmers and farm women, 24 trainings for Rural youths involving 360 participants, 10 numbers of trainings for 150 numbers of extension functionaries and 03 numbers of vocational trainings for 50 numbers of participants during 2022-23.
2. **Front Line Demonstration** – KVK has planned for conducting 20 numbers of Front Line Demonstrations during 2022-23 on the thematic areas of INM, ICM, IWM, IPDM, Crop establishment methods, Varietal substitution, Drudgery reduction, Use of farm machineries, Small scale income generation activities and Value addition. A total of four (04) CFLDs under Oil Seed and Pulse crops have been proposed on



Mustard, Horse gram and Field pea covering an area of 110 ha. Under Tribal Sub-Plan (TSP), KVK has proposed three (03) numbers of FLDs on ICM of Cauliflower, Cabbage and Garden Pea covering a total area of 10 ha.

3. **On Farm Trial:** A total of 11 nos. of On Farm Trials (OFTs) were proposed to be conducted during 2022-23 on INM in chilli and garden pea, varietal evaluation of Ragi varieties, IWM in garden pea, pro-tray nursery technique, varietal evaluation of Bell pepper varieties, IDM of collar rot in groundnut, fall army worm management in maize, performance of bullock-drawn puddler in rice and bullock-drawn seed-cum-fertilizer drill in maize and yield performance of different species of oyster mushroom involving 77 numbers of practicing farmer/farm women beneficiaries.
4. **Extension Activities:** KVK has also proposed various extension activities such as 13 numbers of field days, 02 Kissan Melas, 04 Exhibitions, 40 CD Film shows, 02 Ex-trainees meet and several other activities like Diagnostic Field Visits & KMAS, publication of literature & news letter, soil health campaigning, special days celebration, farmers-scientist interactions etc.

#### **AGENDA -5: CONSTRAINTS OF KVK**

The Senior Scientist and Head presented the constraints of the KVK and drawn kind attention of the chairman & member of the house. He emphasized the following constraints to be resolved for smooth functioning of the KVK.

1. Construction of new training hall
2. Construction of storage godowns
3. Insufficient staff quarters
4. Lack of Irrigation channels in the farm area
5. Requirement of an LI point at the extreme east side boundary of the KVK farm

#### **AGENDA - 6: SUGGESTIONS OF THE MEMBERS**

The chairman requested the members to comment upon the action plan & invited suggestions. The suggestions were made by the members as listed below.

1. The JDE,DEE,OUAT suggested that KVK should link the mushroom entrepreneur with depart. Of Horticulture for availing the subsidy for establishing the mushroom spwan production unit.
2. The Principal scientist CHES, suggested KVK should assess the performance of bushy type black pepper varieties at KVK.
3. The Director, ICAR-ATARI, Zone-V, Kolkata emphasized to assess the performance of different onion varieties IIHR, Hisar. He also suggested to formulate an OFT for assessing the Value addition of green mangoes.

4. The DDH, Kandhamal suggested that, KVK should popularise the technologies for value addition of tender jackfruit and also he emphasizes that KVK should establish an orchard comprising of different exotic fruit crops.
5. The DDH, Kandhamal also emphasized popularize the production technology of paddy straw mushroom in the district.
6. The CDVO, Kandhamal emphasized that one piggery unit should be established in the KVK campus for popularization of pig farming in the district. He also suggested that KVK should give more emphasis on popularization of duckery farming in the district targeting the farm pond beneficiaries.
7. The ADR, RRTTS, G. Udayagiri suggested that, KVK should formulate a trial on performance of different date of sowing of raikia beans in the district. He also emphasized that KVK should plan for more no.of training programs on mushroom cultivation for wide spread of the technology.
8. The Chief Scientist, DLAP suggested that, KVK should focus on pond based integrated farming system targeting the farm pond beneficiaries. He also emphasized to popularize the intercropping system in the rainfed areas of the district.
9. The DFO, Kandhamal suggested KVK should organize more no. of in-service capacity building programme on income generation activities so that the VSS members will be highly benefited.
10. The SSH, KVK Ganjam-1 suggested , KVK should arrange awareness programme for converting forest waste to valuable compost.
11. The Director, ICAR-ATARI, Zone-V, Kolkata also suggested KVK should make more linkage with all the line departments for achieving the goal of DFI.

#### **CHAIRMAN'S REMARKS**

- The work of KVK, Kandhamal in the areas of vermicompost and mushroom spawn production is praiseworthy.
- KVK should focus on crop diversification for more income of the farmers.
- KVK should always execute their programmes with concerned line departments for wide popularization of the technology and benefit of the farming community.
- KVK should give more emphasis for wide spread of the paddy straw mushroom cultivation in the district and the mushroom spawn production units should be established at farmers level with availing the subsidy from the government agencies.
- KVK should give more emphasis on value addition of jackfruit and tomato by targeting the WSHG groups with a particular branding.

The meeting ended at 2.00 PM with the vote of thanks given by Mr. Sujit Kumar Mukhi, Scientist (Soil Science).

### **ANNEXURE-I**

<b>S.No</b>	<b>NAME</b>	<b>DESIGNATION</b>	<b>REMARK</b>
1	Prof. Prasannajit Mishra	Dean Extension Education,OUAT,Bhubaneswar	Chairman
2	Dr. F H Rahman	Principal Scientist, ICAR-ATARI, Kolkata	Co-Chairman
3	Dr. S P Sangramsingh	Joint Director of Extension, DEE, OUAT, BBSR	Member
4	Dr. Subrat kumar Behera	Chief Scientist, DLAP, OUAT, Phulbani	Member
5	Dr. Debendra Ku Debata	ADR, RRTTS, G.Udayagiri	Member
6	Mr. P. K. Satapathy	CDAO, Kandhamal	Member
7	Mr. Mihir ku Samantray	DDH, Kandhamal	Member
8	Mr. P.K. Tripathy	PD, Watershed, Kandhamal	Member
9	Dr. J. K. Sahoo	CDVO, Kandhamal	Member
10	Dr. Sripati Sethi	AVS,G Udayagiri	Invitee
11	Mr. A.K Sethy	Scientist, RRTTS, Kandhamal	Member
12	Mr. Sujit Kumar Mukhi	Scientist (Soil Sc.),KVK,Kandhamal	Member
13	Mr. Sidhartha Kar	Scientist (Horticulture),KVK,Kandhamal	Member
14	Mrs. Sripali Pradhan	SMS (Agronomy), KVK, Kandhamal	Member
15	Mrs. Sanghamitra Biswal	SMS (Ag. Engineering), KVK, Kandhamal	Member
16	Ms. Sumitra Hembram	PA (Home Science), KVK, Kandhamal	Member
17	Mr. Samson Nayak	Farmer representative	Member
18	Mr. Baladev pradhan	Farmer representative	Member
19	Mrs. Sarojini Pradhan	Farm-woman representative	Member
20	Mrs. Babita Prahara	Farm-woman representative	Member
21	Dr. Tapan Das	SS&H, KVK, Boudh	Invitee
22	Dr. Sutanu Satapathy	SS&H, KVK, Ganjam-1	Invitee
23	Dr. (Mrs) Susmita Mohanty	SS&H, KVK, Ganjam-II	Invitee
24	Mr. Sanjit Pattnaik	Secy, KASAM, Kandhamal	Invitee
25	Mr. Ramakanta Parida	APD, Watershed Kandhamal	Invitee
26	Mr. Prasant Ku Panda	Scientist(PP), KVK,Ganjam-I	Invitee
27	Dr. Debadutta Sethi	Jr. Scientist, Soil science,RRTTS, G Udayagiri	Invitee

28	Dr. Narayan Bar	Senior Scientist & Head, KVK, Kandhamal	Member Secretary
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## 2.a. District level data on agriculture, livestock and farming situation (2021)

Sl. no.	Item	Information																														
1	Major Farming system/enterprise	Rice-pulses, Vegetable-vegetable, Turmeric -fallow																														
2	Agro-climatic Zone	North-Eastern Ghat Zone																														
3	Agro ecological situation	<ul style="list-style-type: none"> <li>• Brown Forest Soil, High rainfall (1300 to 1500 mm), High Elevation (500 to 1000 m), rained</li> <li>• Red &amp; Yellow Soil, Moderate rainfall (1100 to 1300 mm), Moderate Irrigation</li> </ul>																														
4	Soil type	Red lateritic & yellowish brown forest soil																														
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	<table border="1"> <thead> <tr> <th>Crop</th> <th>Productivity (kg/ha)</th> </tr> </thead> <tbody> <tr><td>Rice</td><td>2447</td></tr> <tr><td>Maize</td><td>1706</td></tr> <tr><td>Blackgram</td><td>242</td></tr> <tr><td>Arhar</td><td>961</td></tr> <tr><td>Field Pea</td><td>633</td></tr> <tr><td>Groundnut</td><td>1507</td></tr> <tr><td>Niger</td><td>312</td></tr> <tr><td>Mustard</td><td>305</td></tr> <tr><td>Turmeric</td><td>9710</td></tr> <tr><td>Ginger</td><td>10526</td></tr> <tr><td>Kulthi</td><td>358</td></tr> <tr><td>Cabbage</td><td>18000</td></tr> <tr><td>Tomato</td><td>20800</td></tr> <tr><td>Potato</td><td>18500</td></tr> </tbody> </table>	Crop	Productivity (kg/ha)	Rice	2447	Maize	1706	Blackgram	242	Arhar	961	Field Pea	633	Groundnut	1507	Niger	312	Mustard	305	Turmeric	9710	Ginger	10526	Kulthi	358	Cabbage	18000	Tomato	20800	Potato	18500
Crop	Productivity (kg/ha)																															
Rice	2447																															
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Cabbage	18000																															
Tomato	20800																															
Potato	18500																															
6	Mean yearly temperature, rainfall, humidity of the district	Mean yearly temperature – Min- 8° C and Max.- 38° C Rainfall – 1427.9 mm Humidity – 38 to 94 %																														

7	Production of major livestock products like milk, egg, meat etc.	Milk – 17.32 TMT; Eggs – 21.52 Million Broiler – 0.452 TMT; Meat – 0.399 TMT
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Note: Please give recent data only

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

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1	G. Udayagiri	G. Udayagiri	Katadaganda Kilakia Gotamaha Dakedi Bearpanga	Turmeric, Paddy, Maize, Groundnut, Off-season Vegetables like Cauliflower & Tomato, Cabbage, Goatary, Poultry, Mushroom	Turmeric – Low yield due to application of lower dose of organic inputs and improper crop management practices Paddy – Heavy weed infestation Maize – Low yield due to soil acidity, inadequate nutrient management and cultivation of local degenerated varieties Groundnut – Heavy weed infestation Vegetable- Low yield due to cultivation of local variety, inadequate nutrient management, soil acidity and heavy pest & disease incidence Goatary – Poor growth of goats due to local breed and improper feed management Poultry – Poor growth and egg production due to rearing of local breed without vaccination Mushroom – Low production due to traditional cultivation	Organic Farming Weed Management Soil Health & Fertility Management Pest & Disease Management Backyard Poultry and Animal Production Non-land enterprises
2	Tikabali	Tikabali	Penala, Burbinaju, Paburia	Turmeric, Paddy, Maize, Groundnut, Off-season Vegetables like Cauliflower & Tomato, Cabbage, Goatary, Poultry, Mushroom	Turmeric – Low yield due to application of lower dose of organic inputs and improper crop management practices Paddy – Heavy weed infestation Maize – Low yield due to soil acidity, inadequate nutrient management and cultivation of local degenerated varieties Groundnut – Heavy weed infestation Vegetable- Low yield due to cultivation of local variety, inadequate nutrient management, soil acidity and heavy pest & disease incidence Goatary – Poor growth of goats due to local breed and improper feed management Poultry – Poor growth and egg production due to rearing of local breed without vaccination Mushroom – Low production due to traditional cultivation	Organic Farming Weed Management Soil Health & Fertility Management Pest & Disease Management Backyard Poultry and Animal Production Non-land enterprises
3	Raikia	Raikia	Raikia, Sugadabadi, Kambarikia	Paddy, Maize, Niger, Off-season Vegetables like Cauliflower & Tomato, Raikia Bean, Cabbage, Goatary,	Paddy – Heavy weed infestation Maize – Low yield due to soil acidity, inadequate nutrient management and cultivation of local degenerated varieties Groundnut – Heavy weed infestation Niger – Low yield due to inadequate nutrient management & heavy cuscutta infestation	Weed Management Crop substitution Fruit & Vegetable Cultivation Soil Health & Fertility Management

				Poultry, Mushroom	Vegetable- Low yield due to cultivation of local variety, inadequate nutrient management, soil acidity and heavy pest & disease incidence Goatary – Poor growth of goats due to local breed and improper feed management Poultry – Poor growth and egg production due to rearing of local breed without vaccination Mushroom – Low production due to traditional cultivation	Pest & Disease Management Backyard Poultry and Animal Production Non-land enterprises Low Cost Production Techniques
4	K. Nuagaon	K. Nuagaon	Bandaguda, Gunjigaon, Gindapanga	Paddy, Maize, Niger, Off-season Vegetables like Cauliflower & Tomato, Raikia Bean, Cabbage, Goatary, Poultry, Mushroom	Paddy – Heavy weed infestation Maize – Low yield due to soil acidity, inadequate nutrient management and cultivation of local degenerated varieties Groundnut – Heavy weed infestation Niger – Low yield due to inadequate nutrient management & heavy cuscutta infestation Vegetable- Low yield due to cultivation of local variety, inadequate nutrient management, soil acidity and heavy pest & disease incidence Goatary – Poor growth of goats due to local breed and improper feed management Poultry – Poor growth and egg production due to rearing of local breed without vaccination Mushroom – Low production due to traditional cultivation	Weed Management Crop substitution Fruit & Vegetable Cultivation Soil Health & Fertility Management Pest & Disease Management Backyard Poultry and Animal Production Non-land enterprises Low Cost Production Techniques
5	Daringibadi	Daringibadi	Ladamaha, Daringibadi, Simanbadi	Turmeric, Ginger, Paddy, Maize, Niger, Groundnut, Off-season Vegetables like Cauliflower & Tomato, Cabbage, Goatary, Poultry, Mushroom	Turmeric – Low yield due to application of lower dose of organic inputs and improper crop management practices Ginger – Low yield due to rhizome rot Paddy – Heavy weed infestation Maize – Low yield due to soil acidity, inadequate nutrient management and cultivation of local degenerated varieties Groundnut – Heavy weed infestation Niger – Low yield due to inadequate nutrient management & heavy cuscutta infestation Vegetable- Low yield due to cultivation of local variety, inadequate nutrient management, soil acidity and heavy pest & disease incidence Goatary – Poor growth of goats due to local breed and improper feed management Poultry – Poor growth and egg production due to rearing of local breed without vaccination Mushroom – Low production due to traditional cultivation	Organic Farming Weed Management Soil Health & Fertility Management Pest & Disease Management Backyard Poultry and Animal Production Non-land enterprises Marketing Awareness Farm Mechanisation

2. c. Details of village adoption programme:

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

Name of village	Block	Action taken for development
Burbinaju	Tikabali	FLD, OFT, CFLD, Training, Soil Testing, Diagnostic Field Visit, Convergence programme with Line Departments
Katadaganda	G. Udayagiri	FLD, OFT, CFLD, Training, Soil Testing, Diagnostic Field Visit, Convergence programme with Line Departments
Bandaguda	K. Nuagaon	FLD, OFT, CFLD, Training, Soil Testing, Diagnostic Field Visit, Convergence programme with Line Departments
Ladamaha	Daringibadi	FLD, OFT, CFLD, Training, Soil Testing, Diagnostic Field Visit, Convergence programme with Line Departments
Sugadabadi	Raikia	FLD, OFT, CFLD, Training, Soil Testing, Diagnostic Field Visit, Convergence programme with Line Departments

### 2.1 Priority thrust areas

S. No	Thrust area
1.	Soil health & fertility management
2.	Non land enterprises
3.	Soil and water conservation
4.	Crop substitution & cropping system
5.	Low cost production technique
6.	Weed management
7.	Pest & disease management
8.	Marketing awareness
9.	Dry land Farming
10.	Fruit & Vegetable Cultivation
11.	Backyard poultry rearing
12.	Processing and value addition

### 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	9	65	12	9	22	10	2	-	36	19	55	26	22	260	25	17	98	32	8	10	131	59	220		

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			
95	76	2280										1	7	1	689	689	35032	2	67	2	5	19	49	2	7	3
			13	166	825	49	68	63	0	5	1	0	5	4	0	5	0	3	3	3	3	61	1	0	0	0
			7			5			5		1				2		7	9						2	3	3
																	6							9		2

Impact of capacity building											Impact of Extension activities													
Number of Participants trained				Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)							Number of Participants attended				Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									
Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total					
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	M	F	T	
2280	1805	41	50	247	148	20	18	308	216	524	689	689	897	250	7120	1751	392	99	8409	2100	10509			

Seed production (q)	Planting material (in Lakh)



Target	Achievement	Target	Achievement
Turmeric(120q)	In harvesting stage	Tomato,Brinjal,Chilli,Cabbage,Cauliflower (1 lakh)	0.21030 lakh
Niger(3q)	Processing stage	Papaya,Drumstick,Banana(0.05 lakh)	0.00686 lakh
Paddy(10.8q)	Processing stage		
Toria(5q)	Processing stage		

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
		750	754

\* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper							
Seminar/conference/ symposia papers							
Books	1000	200					
Bulletins							
News letter	500	500	-	-	-	--	-
Popular Articles							
Book Chapter							
Extension Pamphlets/ literature							
Technical reports							
Electronic Publication (CD/DVD etc)							
<b>TOTAL</b>	1500	700					

### Achievements on technologies assessed and refined

**OFT-1**

1.	Title of On farm Trial	<b>Assessment on Pro tray Nursery Techniques</b>	
2.	Problem diagnosed	High damage of vegetable seedlings due to rain, high disease and insect pest incidence during monsoon, less survival rate of seedling, high labour and follow up management cost	
3.	Details of technologies selected for assessment/refinement	<b>FP</b>	Raising of seedling in open condition
		<b>TO<sub>1</sub></b>	Raising of seedling in low cost poly tunnel
		<b>TO<sub>2</sub></b>	Raising of seedling in pro tray with sterilise potting mixture by coco peat @ 300 kg with 5 kg Neem cake along with Azospirillum and phosphobacteria each @ 1 kg
4.	Source of Technology	<b>TNAU, COIMBATOR</b>	
5.	Production system and thematic area	Nursery Management in Commercial Vegetable Production System	
6.	Performance of the Technology with performance indicators	Gross cost, Gross return, Net return (Rs/ha), B:C ratio	
7.	Final recommendation for micro level situation	<ul style="list-style-type: none"> <li>▪ Raising of seedling in pro tray with sterilise potting mixture by coco peat @ 300 kg with 5 kg Neem cake along with Azospirillum and phosphobacteria each @ 1 kg.</li> <li>▪ Survival percentage increases by raising of seedling in pro-tray</li> <li>▪ Low production cost</li> </ul>	
8.	Constraints identified and feedback for research	-	
9.	Process of farmers participation and their reaction	Farmers are very much appreciating the technology	

**Thematic area:** *Nursery Management*

**Problem definition:** High damage of vegetable seedlings due to rain, high disease and insect pest incidence during monsoon, less survival rate of seedling, high labour and follow up management cost

**Technology assessed:**

**FP** Raising of seedling in open condition

**TO<sub>1</sub>** Raising of seedling in low cost poly tunnel

**TO<sub>2</sub>** Raising of seedling in pro tray with sterilized potting mixture by coco peat @ 300 kg with 5 kg Neem cake along with Azospirillum and phosphobacteria each @ 1 kg

**Table:**

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Survival rate (%) (Healthy Seedling)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Days to Germinate	Seedling height (cm) 9 DAS	Germination (%)						
FP	06	03	4.68	44	56	42	110000	245000	135000	2.22
TO <sub>1</sub>	06	04	5.44	82	18	75	140000	365000	225000	2.60
TO <sub>2</sub>	06	03	4.88	97	03	94	150000	450000	300000	3.00

**Results:** Raising of seedling in pro tray with sterilized potting mixture by coco peat @ 300 kg with 5 kg Neem cake along with Azospirillum and Phosphobacteria each @ 1 kg was found to be superior than other technological options and could give maximum net return and quality seedlings.

### OFT-2

1.	Title of On farm Trial	<b>Assessment of Economic Performance of different pepper</b>						
2.	Problem diagnosed	Low profitability from existing chilli cultivation						
3.	Details of technologies selected for assessment/refinement	<table border="1"> <tbody> <tr> <td>FP</td> <td>Cultivation of Chilli during Rabi season</td> </tr> <tr> <td>TO<sub>1</sub></td> <td>Cultivation of bell pepper variety "Indra"</td> </tr> <tr> <td>TO<sub>2</sub></td> <td>Cultivation of Hot pepper variety "Manzum"</td> </tr> </tbody> </table>	FP	Cultivation of Chilli during Rabi season	TO <sub>1</sub>	Cultivation of bell pepper variety "Indra"	TO <sub>2</sub>	Cultivation of Hot pepper variety "Manzum"
FP	Cultivation of Chilli during Rabi season							
TO <sub>1</sub>	Cultivation of bell pepper variety "Indra"							
TO <sub>2</sub>	Cultivation of Hot pepper variety "Manzum"							
4.	Source of Technology	TNAU 2015, IIHR, 2016						
5.	Production system and thematic area	Crop diversification in Commercial Vegetable Production System						
6.	Performance of the Technology with performance indicators	Yield (q/ha), Gross return, Net return (Rs/ha), B:C ratio						
7.	Final recommendation for micro level situation	<ul style="list-style-type: none"> <li>▪ High profitability and marketability of bell pepper &amp; Hot pepper</li> <li>▪ Increase land productivity</li> <li>▪ Suitable to Climate condition</li> </ul>						
8.	Constraints identified and feedback for research	Improve marketing of Capsicum & Hot pepper.						
9.	Process of farmers participation and their reaction	Farmers are very much happy by fetching higher income per unit area						

**Thematic area:** Crop Diversification

**Problem definition:** Low profitability from existing chilli cultivation

**Technology assessed:**

- FP** Cultivation of Chilli during Rabi season  
**TO<sub>1</sub>** Cultivation of bell pepper variety “Indra”  
**TO<sub>2</sub>** Cultivation of Hot pepper variety “Manzum”

**Table:**

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Single fruit weight (gm)	Single fruit length (cm)	Fruit yield per plant (Kg.)						
<b>FP</b>	05	3.5	10.4	0.420	15	92.4	85000	138600	53600	1.63
<b>TO<sub>1</sub></b>	05	65	7.5	0.366	25	74	120000	259000	139000	2.15
<b>TO<sub>2</sub></b>	05	18.25	12.2	0.650	10	143	120000	286000	166000	2.38

**Results:** Hot pepper variety “Manzum” was found to be very much superior than other pepper varieties tested and could substitute the practiced crop chilli to fetch higher return per unit area.

**OFT-3**

1.	Title of On farm Trial	<b>Assessment of sweet corn variety for higher profitability</b>						
2.	Problem diagnosed	Low market price of maize and opportunity for diversification through sweet corn						
3.	Details of technologies selected for assessment/refinement	<table border="1"> <tbody> <tr> <td><b>FP</b></td> <td>Cultivation of locally available sweet corn (Sugar 75)</td> </tr> <tr> <td><b>TO<sub>1</sub></b></td> <td>Sweet corn var.- VL Sweet corn 1 (FSCH18)</td> </tr> <tr> <td><b>TO<sub>2</sub></b></td> <td>Sweet corn var. - Pusa Super Sweet corn-1</td> </tr> </tbody> </table>	<b>FP</b>	Cultivation of locally available sweet corn (Sugar 75)	<b>TO<sub>1</sub></b>	Sweet corn var.- VL Sweet corn 1 (FSCH18)	<b>TO<sub>2</sub></b>	Sweet corn var. - Pusa Super Sweet corn-1
<b>FP</b>	Cultivation of locally available sweet corn (Sugar 75)							
<b>TO<sub>1</sub></b>	Sweet corn var.- VL Sweet corn 1 (FSCH18)							
<b>TO<sub>2</sub></b>	Sweet corn var. - Pusa Super Sweet corn-1							
4.	Source of Technology	<b>TO<sub>1</sub></b> - VPKAS, Almora, 2016 <b>TO<sub>2</sub></b> - IARI, 2018-19						
5.	Production system and thematic area	Crop diversification In Commercial Production System						
6.	Performance of the Technology with performance indicators	Yield (q/ha), Net return (Rs/ha) and BC ratio						
7.	Final recommendation for micro level situation	<ul style="list-style-type: none"> <li>▪ VL Sweet corn 1- enhanced sweetness with a good grain yield (10.8y/ha)</li> <li>▪ Pusa Super Sweet corn 1- enhanced sweetness with a good grain yield (9.3t/ha) and fodder yield(16.2t/ha)</li> </ul>						
8.	Constraints identified and feedback for research	-						

9.	Process of farmers participation and their reaction	Farmers are happy due to higher yield and return and show their interest for adoption of the technology
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**Thematic area:** Crop diversification

**Problem definition:** Low market price of maize and opportunity for diversification through sweet corn

**Technology assessed:**

**FP** Cultivation of locally available maize hybrids

**TO<sub>1</sub>** Sweet corn var.- VL Sweet corn 1 (FSCH18)

**TO<sub>2</sub>** Sweet corn var. - Pusa Super Sweet corn-1

**Table:**

Technology option	No. of trials	Yield component		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Length of cob (cm)	Cob weight (gm)					
FP	7	12.3	156.2	71.8	24300	108000	83700	3.4
TO <sub>1</sub>	7	16.4	173.0	83.0	36000	190000	154000	4.3
TO <sub>2</sub>	7	18.2	178.5	87.5	36400	210000	173600	4.8

**Results:** The technological option – 2 which includes cultivation of sweet corn variety pusa super sweet corn 1, gave highest yield (87.5 q/ha), net return (Rs.173600/- per ha) and BC ratio of 4.8

#### OFT-4

1.	Title of On farm Trial	<b>Assessment on weed management in garden pea</b>	
2.	Problem diagnosed	Low productivity due to heavy weed infestation, labour intensive	
3.	Details of technologies selected for assessment/refinement	<b>FP</b>	One hand weeding at 20 DAS
		<b>TO<sub>1</sub></b>	Two hand weeding at 20 & 45 DAS
		<b>TO<sub>2</sub></b>	Pre-emergence application of pendimethalin @ 2.5 lit/ha within 3 days after sowing
		<b>TO<sub>3</sub></b>	Post-emergence application of Imazethapyr (10% SL) @ 750ml/ha at 20-30 DAS
4.	Source of Technology	IARI, New Delhi, Year : 2014	

5.	Production system and thematic area	Integrated Weed Management in Commercial Vegetable Production System
6.	Performance of the Technology with performance indicators	Green pod yield (q/ha), Net return (Rs/ha) and BC ratio
7.	Final recommendation for micro level situation	Weed management practices reduces weed flora and increases the yield of garden pea
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Farmers are happy due to less labour use, higher yield and return and show their interest for adoption of the technology

**Thematic area:** Integrated weed management

**Problem definition:** Low productivity due to heavy weed infestation, labour intensive

**Technology assessed:**

**FP** One hand weeding at 20 DAS

**TO<sub>1</sub>** Two hand weeding at 20 & 45 DAS

**TO<sub>2</sub>** Pre-emergence application of Pendimethalin @ 2.5 lit/ha within 3 days after sowing

**TO<sub>3</sub>** Post-emergence application of Imazethapyr (10% SL) @ 750ml/ha at 20-30 DAS

**Table:**

Technology option	No. of trials	Yield component		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of pods/ plant	No. of seeds/ pod					
FP	5	14.8	5.2	72.4	47800	144800	9700	3.0
TO <sub>1</sub>	5	16.6	6.1	98.8	56300	192400	136100	3.4
TO <sub>2</sub>	5	18.4	6.8	98.2	37600	196400	158800	5.2
TO <sub>3</sub>	5	20.6	7.2	102.6	38000	205200	167200	5.4

**Results:** Post-emergence application of Imazethapyr (10% SL) @ 750ml/ha at 20-30 DAS has given the highest yield of 102.6 q/ha and was superior over all the other technology options.

**OFT-5**

1.	Title of On farm Trial	Assessment of in-situ soil moisture conservation methods in tomato-radish sequence during Kharif 2021
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2.	Problem diagnosed	Due to less moisture, another crop cannot be taken after tomato leading to less income/unit area								
3.	Details of technologies selected for assessment/refinement	<table border="1"> <tr> <td><b>FP</b></td> <td>Ridge and furrow method (Sole tomato crop)</td> </tr> <tr> <td><b>TO<sub>1</sub></b></td> <td>Ridge and furrow method with organic mulch (T-R)</td> </tr> <tr> <td><b>TO<sub>2</sub></b></td> <td>Broad bed furrow method (T-R)</td> </tr> <tr> <td><b>TO<sub>3</sub></b></td> <td>Broad bed furrow method with organic mulch (T-R)</td> </tr> </table>	<b>FP</b>	Ridge and furrow method (Sole tomato crop)	<b>TO<sub>1</sub></b>	Ridge and furrow method with organic mulch (T-R)	<b>TO<sub>2</sub></b>	Broad bed furrow method (T-R)	<b>TO<sub>3</sub></b>	Broad bed furrow method with organic mulch (T-R)
<b>FP</b>	Ridge and furrow method (Sole tomato crop)									
<b>TO<sub>1</sub></b>	Ridge and furrow method with organic mulch (T-R)									
<b>TO<sub>2</sub></b>	Broad bed furrow method (T-R)									
<b>TO<sub>3</sub></b>	Broad bed furrow method with organic mulch (T-R)									
4.	Source of Technology	AICRP on Dryland Agriculture, Annual Report, 2017-18								
5.	Production system and thematic area	Soil moisture Conservation								
6.	Performance of the Technology with performance indicators	Cost of intervention. Additional income over additional investment, Yield (q/ha), B:C ratio								
7.	Final recommendation for micro level situation	Ridge and furrow method with organic mulch (T-R). Dried sal leaves are used with 6 cm height which are easily available								
8.	Constraints identified and feedback for research	Ridge and furrow method with organic mulch for tomato radish sequence								
9.	Process of farmers participation and their reaction	Farmers were able to do two crops after the intervention which resulted in their increase in yield.								

**Thematic area:** Soil moisture Conservation

**Problem definition:** Due to less moisture, another crop cannot be taken after tomato leading to less income/unit area

**Technology assessed:**

<b>FP</b>	Ridge and furrow method (Sole tomato crop)
<b>TO<sub>1</sub></b>	Ridge and furrow method with organic mulch (T-R)
<b>TO<sub>2</sub></b>	Broad bed furrow method (T-R)
<b>TO<sub>3</sub></b>	Broad bed furrow method with organic mulch (T-R)

**Table:**

Technology option	No. of trials	Yield (t/ha)	% of change in yield	Cost of cultivation	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
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				(Rs./ha)			
<b>FP</b>	5	11	-	62048	165048	103000	1.66
<b>TO<sub>1</sub></b>	5	23.3	111.8	107300	349800	242500	2.26
<b>TO<sub>2</sub></b>	5	17.8	61.8	92105	267105	175000	1.9
<b>TO<sub>3</sub></b>	5	22.5	104.5	107209	337709	230500	2.15

**Results:** Ridge and furrow method with organic mulch (T-R). has resulted in highest yield of 23.3 BC ratio of 2.26

### OFT-6

1.	Title of On farm Trial	<b>Assessment of 8 row self propelled rice transplanter in Kharif</b>
2.	Problem diagnosed	High labour cost and time involved in manual transplanting
3.	Details of technologies selected for assessment/refinement	<b>FP</b> Manual transplanting
		<b>TO<sub>1</sub></b> Manual line Transplanting with the help of rope and guide
		<b>TO<sub>2</sub></b> Transplanting by 8 row self propelled rice transplanter
4.	Source of Technology	AICRP on FIM, CAET, OUAT, 2015-16
5.	Production system and thematic area	Farm Machinery & Power in Commercial Production System
6.	Performance of the Technology with performance indicators	Cost savings (%), Time savings; Additional income over additional investment, Yield (q/ha), B:C ratio
7.	Final recommendation for micro level situation	Self Propelled 8-row Rice Transplanter - Suitable for line transplanting under medium land condition. Spacing – 23.8cm x 14/16/18 cm , Field capacity – 0.15ha/h
8.	Constraints identified and feedback for research	Due to undulating topography the operation of big machinery is not feasible throughout the district
9.	Process of farmers participation and their reaction	Farmers are happy due to saving in time and less drudgery involved and show their interest for adoption of the technology

**Thematic area:** Farm Machinery & Power

**Problem definition:** High labour cost and time involved in transplanting

### Technology assessed:

<b>FP</b>	Manual transplanting
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TO <sub>1</sub>	Manual line Transplanting with the help of rope and guide
TO <sub>2</sub>	Transplanting by 8 row self propelled rice transplanter

**Table:**

Technology option	No. of trials	Yield	% of change in yield	Labour required (Mandays/ ha)	Cost incurred during transplanting (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	30	-	40	12000	56072	31040	1.24
TO <sub>1</sub>	7	31.5	5	45	13500	59874	33842	1.3
TO <sub>2</sub>	7	31.6	5.3	8	8000	59088	40028	2.1

**Results:** the use of eight row selfpropelled transpanter gave best result with 2.1 BC ratio.

**OFT-7**

1.	Title of On farm Trial	<b>Assessment of yield performance of different varieties of oyster mushroom during Rabi season</b>
2.	Problem diagnosed	Low yield of oyster mushroom due to low temperature
3.	Details of technologies selected for assessment/refinement	<b>FP</b> Cultivation of oyster mushroom var. <i>Pleurotus sajorcaju</i>
<b>TO<sub>1</sub></b> Cultivation of oyster mushroom var. <i>Pleurotus ostreatus</i>		
<b>TO<sub>2</sub></b> Cultivation of oyster mushroom var. <i>Hypsizygus ulmarius</i>		
4.	Source of Technology	CTMRT, OUAT 2011
5.	Production system and thematic area	Mushroom Production in Commercial Production System
6.	Performance of the Technology with performance indicators	Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio
7.	Final recommendation for micro level situation	Pearl oyster mushroom has better aroma, yield and excellent shelf life, temperature for cultivation is 10-24 degree centigrade biological efficiency 70% Large and fleshy appearance , better yield, shelf life of 32-40 days , 10-18 degree centigrade biological efficiency 80%
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Farmers are happy due to more yield & better consumer acceptance and show their interest for adoption of the technology

**Thematic area:** Mushroom Production

**Problem definition:** Low yield of oyster mushroom due to low temperature

**Technology assessed:**

FP Cultivation of oyster mushroom *var. Pleurotus sajorcaju*

TO<sub>1</sub> Cultivation of oyster mushroom *var. Pleurotus ostreatus*

TO<sub>2</sub> Cultivation of oyster mushroom *var. Hypsizygyus ulmarius*

**Table:**

Technology option	No. of trials	Yield component			Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Pin head appearance	Days to 1 <sup>st</sup> harvest	Biological efficiency (%)					
FP	7	20	24	75	1.5	40	160	120	4
TO <sub>1</sub>	7	18	23	80	1.8	40	180	140	4.5
TO <sub>2</sub>	7	17	24	104	2.1	40	210	170	5.2

**Results:** Oyster mushroom *var. Hypsizygyus ulmarius* was found to be superior in biological efficiency (104 %), yield (2.1 kg/bed) and highest BC ratio of 5.2.

### OFT-8

1.	Title of On Farm Trial	<b>Assessment of INM in Chilli</b>
2.	Problem diagnosed	Poor plant growth, less flower and fruit formation due to improper nutrient management practices
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment FP-Application of FYM @ 1 t/ha with fertilizer @ 20-20-30 kg N-P <sub>2</sub> O <sub>5</sub> K <sub>2</sub> O/ha TO-1-STBFR based N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O + FYM @ 5 t/ha TO-2-STBFR + Vermi-compost @ 5 t/ha ( <i>on-farm production</i> ) TO-3-TO <sub>2</sub> + Bio-fertilizer ( <i>Azotobacter</i> , <i>Azospirillum</i> and <i>PSB</i> 1:1:1 @ 4 kg each per ha)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	SAU, AINP on Soil Bio-diversity - Bio-fertilizers, Dept. of Soil Sc., OUAT, BBSR, 2014
5.	Production system and thematic area	Rain-fed Upland, Veg – Fallow Irrig. Upland Veg-Veg

		INM
6.	Performance of the Technology with performance indicators	<ul style="list-style-type: none"> <li>• Biofertilizers increases the availability of N &amp; P in soil, Vermi-compost not only improves the physical, chemical and biological properties of soil but also improves the moisture holding capacity of soil &amp; supply plant nutrients and Judicious use of organic and inorganic sources is essential to maintain the soil health and sustainable productivity</li> <li>• STBFR based N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O application, Vermi-compost @ 5 t / ha (<i>on-farm production</i>), Bio-fertilizer (<i>Azotobacter</i>, <i>Azospirillum</i> and <i>PSB 1:1:1 @ 4 kg each per ha</i>) increased the green chilli yield by 46.1% over farmers practice</li> </ul>
7.	Final recommendation for micro level situation	STBFR based N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O application, Vermi-compost @ 5 t / ha ( <i>on-farm production</i> ), Bio-fertilizer ( <i>Azotobacter</i> , <i>Azospirillum</i> and <i>PSB 1:1:1 @ 4 kg each per ha</i> )
8.	Constraints identified and feedback for research	It is a very appreciable technology
9.	Process of farmers participation and their reaction	All the farmers accepted this technology due to low cost and high return

**Thematic area:** Integrated Nutrient Management

**Problem definition:** Poor plant growth, less flower and fruit formation in chillidue to improper nutrient management practices

**Technology assessed:**

FP-Application of FYM @ 1 t/ha with fertilizer @ 20-20-30 kg N-P<sub>2</sub>O<sub>5</sub>K<sub>2</sub>O/ha

TO-1-STBFR based N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O + FYM @ 5 t / ha

TO-2-STBFR + Vermi-compost @ 5 t / ha (*on-farm production*)

TO-3-TO<sub>2</sub> + Bio-fertilizer (*Azotobacter*, *Azospirillum* and *PSB 1:1:1 @ 4 kg each per ha*)

**Table:**

Technology option	No. of trials	Yield component			Number of fruits per plant	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Plant height (cm)	Weight of fruit per plant (gm)	Length of fruit (cm)						
FP-Application of FYM @ 1 t /ha with fertilizer @ 20-20-30 kg N-P <sub>2</sub> O <sub>5</sub> K <sub>2</sub> O/ha	05	60.2	90.2	3.9	45.1	90.2	85100	270600	185500	3.2
TO-1-STBFR based N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O + FYM @ 5 t / ha	05	66.4	112.7	5.7	57.6	108.3	90200	324900	234700	3.6
TO-2-STBFR + Vermi-compost @ 5 t / ha ( <i>on-farm production</i> )	05	69.8	118.4	6.1	59.1	122.6	98400	367800	269400	3.7
TO-3-TO <sub>2</sub> + Bio-fertilizer ( <i>Azotobacter</i> , <i>Azospirillum</i> and <i>PSB</i> 1:1:1 @ 4 kg each per ha)	05	79.4	126.4	6.4	62.2	131.8	100100	395400	295300	4.0

**Results:** STBFR based N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O application, Vermi-compost @ 5 t / ha (*on-farm production*), Bio-fertilizer (*Azotobacter*, *Azospirillum* and *PSB* 1:1:1 @ 4 kg each per ha) increased the green chilli yield by 46.1% over farmers practice

### OFT-9

1	Title of On Farm Trial	<b>Assessment of INM in Garden pea</b>
2	Problem diagnosed	Poor plant growth, less branch & pod formation due to inadequate nutrient management practices
3	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment FP-Application of FYM @ 1t /ha and fertilizer application @ 30-40-30 kg N-P <sub>2</sub> O <sub>5</sub> K <sub>2</sub> O/ha

		TO-1-STBFR + FYM @ 5 t / ha TO-2-TO <sub>1</sub> + seed inoculation with <i>Rhizobium</i> @ 20 gm/kg seed TO-3-TO <sub>2</sub> + Lime @ 0.2 LR at the time of final ploughing
4	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	SAU, AINP on Soil Bio-diversity - Bio-fertilizers, Dept. of Soil Sc., OUAT, BBSR , 2014
5	Production system and thematic area	Irrigated Up & Medium land Veg-Veg; Rice-Veg INM
6	Performance of the Technology with performance indicators	<ul style="list-style-type: none"> <li>• Rhizobium application maintains soil fertility through symbiotic nitrogen fixation by stimulating the formation of root nodules, Biofertilizer increases the availability of N nutrition, Combined application of Biofertilizer, FYM, NPK with lime increases the growth, yield attributes and yield of garden pea</li> <li>• STBFR based N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O application, FYM @ 5 t / ha, seed inoculation with <i>Rhizobium</i> @ 20 gm/kg seed and application of Lime @ 0.2 LR at the time of final ploughing increased the pod yield of garden pea by 49.1 % over farmers practice</li> </ul>
7	Final recommendation for micro level situation	STBFR based N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O application, FYM @ 5 t / ha, seed inoculation with <i>Rhizobium</i> @ 20 gm/kg seed and application of Lime @ 0.2 LR at the time of final ploughing
8	Constraints identified and feedback for research	It is a very appreciable technology
9	Process of farmers participation and their reaction	All the farmers accepted this technology due to high yield and return

**Thematic area:** Integrated Nutrient Management

**Problem definition:** Poor plant growth, less branch & pod formation of garden pea due to inadequate nutrient management practices

**Technology assessed:**

FP-Application of FYM @ 1t /ha and fertilizer application @ 30-40-30 kg N-P<sub>2</sub>O<sub>5</sub>K<sub>2</sub>O/ha

TO-1-STBFR + FYM @ 5 t / ha

TO-2-TO<sub>1</sub>+ seed inoculation with *Rhizobium* @ 20 gm/kg seed

TO-3-TO<sub>2</sub>+ Lime @ 0.2 LR at the time of final ploughing

**Table:**

Technology option	No. of trials	Yield component			Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Plant height (cm)	No of pods/plant	No of seeds/pod					
FP-Application of FYM @ 1t /ha and fertilizer application @ 30-40-30 kg N-P <sub>2</sub> O <sub>5</sub> K <sub>2</sub> O/ha	05	63.2	13.8	7.0	71.3	61200	142600	81400	2.3
TO-1-STBFR + FYM @ 5 t / ha		70.8	17.8	7.6	88.7	65800	177400	111600	2.7
TO-2-TO <sub>1</sub> + seed inoculation with <i>Rhizobium</i> @ 20 gm/kg seed		74.3	20.2	8.0	92.5	66400	185000	118600	2.8
TO-3-TO <sub>2</sub> + Lime @ 0.2 LR at the time of final ploughing		79.8	22.4	8.8	106.3	70100	212600	142500	3.0

Results: STBFR based N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O application, FYM @ 5 t / ha, seed inoculation with *Rhizobium* @ 20 gm/kg seed and application of Lime @ 0.2 LR at the time of final ploughing increased the pod yield of garden pea by 49.1 % over farmers practice

### 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	Cropping system	Rice followed by Maize Followed by Cowpea is the promising productive and remunerative cropping system which produces year round income	1.0	1.0	1	1	4	4	0	0	5	5	10	
2.	Rice	Drudgery Reduction	Puddler suitable for small and medium size bullocks of odisha, working with of 760 mm, weight of 41 kg, draft requirement of	1.0	1.0	2	0	5	2	1	0	8	2	10	

			50-55 kg												
3	Maize+cow pea	INM	<ul style="list-style-type: none"> <li>▪ Application of FYM @ 5 t/ha</li> <li>▪ Vermicompost @ 2 t/ha (on-farm production by farmers)</li> <li>▪ Bio-contortia @ 5 kg/ha</li> <li>▪ Application of Pot-manure @ 2 % for 4 times at 15 days interval</li> </ul>	0.4	0.4	2	1	5	2	0	0	7	3	10	
4	Ragi	Varietal Evolution	Line sowing of <i>Kalua</i> variety, moderately resistant to leaf, neck and finger blast and brown seed. Can tolerate dry spell of 10-12 days at vegetative and 6-8 days at reproductive stages.	1.0	1.0	2	1	4	3	0	0	6	4	10	
5	Maize	Farm Machinery & Power	5 row seed cum fertilizer drill-row to row adjustable, available with 7 sets of roller, suitable for small to bold seeds, working width – up to 1.5 m, vertical roller type metering mechanism	1.0	1.0	1	1	6	1	1	0	8	2	10	
6	Maize	Crop diversification	Cultivation of Sweet corn variety 'Sugar 75', Seed rate 5 kg/ha, Spacing 60cm × 30cm, with soil test based fertilizer application	1.0	1.0	1	2	4	2	1	0	6	4	10	
7	Maize	Farm Machinery & Power	Field capacity- 0.24 ha/day with petrol engine, 89.7% weeding efficiency and less than 1% plant damage. It has set of 2 circular discs with 4 no. of weeding tynes fixed on each disc.	1.0	1.0	2	2	4	2	0	0	6	4	10	

Details of farming situation

Crop	Season	Farming situation (RE/Irrigated)	Soil type	Status of soil (Kg/ha)	Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
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				N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O					
Rice	Kharif	Rainfed – medium land	Sandy clay loam	197.5	11.7	302.6	Rice	17.08.2021	21.12.2021	479.2	31
Ragi	Kharif	Rainfed – medium land	Sandy clay loam	226.4	13.6	310.5	Rice	12.08.2021	02.12.2021	479.2	31
Maize	Rabi	Irrigated medium land	Sandy clay loam	302.8	18.8	296.7	Tomato	09.11.2021	12.03.2022	127.6	10
Maize+cow pea	Kharif	RF	Sandy clay loam	122.8 to 311.4	8.9 to 26.5	128.4 to 401.5	Mustard	11.08.2021 to 14.08.2021	17.12.2021 to 28.12.2021	479.2	31

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

### Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Groundnut	IWM	Post-emergence application of Imazethapyr (10% SL) @ 750ml/ha at 20-30 days after sowing	10	1.0	11.2	8.4	33.3	23338	56000	32662	2.4	29920	42000	19080	1.8
Niger	INM	Application of FYM @ 5 t/ha, 50 % RDF N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O @ 20:20:10 kg/ha and S @ 30 kg /ha	10	1	3.4	2.5	36.0	14200	20400	6200	1.4	12600	15000	2400	1.2



<b>Total</b>			<b>20</b>	<b>2</b>												
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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

### 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

<b>Cow pea</b>	Varietal Evaluation	<b>Demonstration of Cow Pea Variety</b> Resistant to disease and high cooking value Cow Pea Variety Kashi Kanchan.	13	0.2	177	152	16.45	85000	354000	269000	4.16	80000	304000	224000	3.80
Garden pea	INM & ICM	High yielding variety-GS-10, FYM 5 t/ha, Seed rate 50 kg/ha, seed treatment with Rhizobium 20g/kg of Seed, Spacing 30x10cm, application of biofertilizers @ 12 kg/ha (Azotobacter + Azospirillum+PSB: 4+4+4= 12 kg/ha), application of boron @ 1kg/ha at the time of sowing, application of 75 % of recommended dose of N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O as per soil test results and need based application of plant protection chemicals	34	3	108.5	70.8	53.2	55700	217000	161300	3.9	46500	141600	95100	3.0
<b>Total</b>			<b>47</b>	<b>3.2</b>											

\* 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

<b>Cabbage, Cauliflower</b>	Production of small tools & implements	The transplanter has a capacity of 12-15 seedlings per minute with 1 man power and overall dimensions (LxWxH)- 210x60x1000 mm and 2 Kg weight. It reduces drudgery due to repeated lowering while transplanting.	10	1.0	Result Awaited			Seedlings transplanted 652 nos./hr	Seedlings transplanted 150 nos./hr	Result Awaited				Result Awaited			
<b>Chilli</b>	Varietal Evaluation	Demonstration on Chilli variety Arka Meghana	<b>16</b>	<b>0.480</b>	239.98	180	33.32	3.6 gm (Single fruit wt)	3.03 gm (Single fruit wt)	75000	143988	68988	1.91	70000	108000	38000	1.54
Maize+Cow pea	INM	<ul style="list-style-type: none"> <li>▪ Application of FYM @ 5 t/ha</li> <li>▪ Vermicompost @ 2 t/ha (on-farm production by farmers)</li> <li>▪ Bio-contortia @ 5 kg/ha</li> </ul> Application of Pot-manure @ 2 % for 4 times at 15 days interval	10	0.4	46.75	36.5	28.1	Cob length (cm)16.4	Cob length (cm)13.8	40200	87423	47222.5	2.2	35800	68255	32455	1.9

Cauliflower	INM	<ul style="list-style-type: none"> <li>▪ Soil test based N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O application</li> <li>▪ Use of FYM @ 5 t/ha</li> </ul> Soil application of Boron @ 0.5 kg/ha at the time of planting and two foliar sprays of Borax @ 0.25% at 15 days interval from 30 days after transplanting	10	1	202.6	145.2	39.5	Head diameter (cm) 10.2	Head diameter (cm) 7.9	70800	344420	273620	4.9	62400	246840	184440	4.0
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Cabbage	INM & ICM	Hybrid cabbage variety-Hare Krishna, seed rate – 0.3 kg/ha, FYM 5 t/ha , spacing (60 x 45) cm, seed treatment with vitavax power @ 2 gm /kg seed, application of biofertilizers @ 12 kg/ha ( <i>Azotobacter</i> + <i>Azospirillum</i> + <i>PSB</i> : 4+4+4= 12 kg/ha), soil application of boron @ 1 kg/ha at the time of sowing, application of 75 % of recommended dose of N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O as per soil test results and need based application of plant protection chemicals.	12	1.5	334.7	204.3	63.8	Single head wt. (kg) 1.71	Single head wt. (kg) 1.29	6790 0	33470 0	26680 0	4.9	5870 0	20430 0	14560 0	3.5
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Cauliflower	INM & ICM	Hybrid cauliflower variety-Poornima, seed rate – 0.3 kg/ha, FYM 5 t/ha , spacing (60 x 45) cm, seed treatment with vitavax power @ 2 gm /kg seed, application of biofertilizers @ 12 kg/ha ( <i>Azotobacter</i> + <i>Azospirillum</i> + <i>PSB</i> : 4+4+4= 12 kg/ha), soil application of boron @ 1 kg/ha at the time of sowing, application of 75 % of recommended dose of N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O as per soil test results and need based application of plant protection chemicals.	16	1.5	291.5	181.4	60.7	Head depth (cm) 15.6	Head depth (cm) 10.7	78700	437250	358550	5.6	61400	272100	210700	4.4
Bitter gourd	ICM	Bitter gourd variety Katai HY cultivation with Single line trellis system (SLTS) using HDPE Nylon net with bamboo stump in 5 ft distance in line row and 3 ft distance between two rows.	11	0.40	86.0	64	34.375	72 gm (Single fruit weight)	60 gm (Single fruit weight)	75000	174000	99000	2.32	65000	125000	60000	1.92
Garden Pea	Varietal Evaluation	Demonstration on Green Peas variety VL Sabji Matar - 14	07	0.40	242.2	175	38.28	10 gm.(Single pod weight)	7.8 gm. (Single pod weight)	100000	484400	384400	4.84	98000	250000	252000	3.57
<b>Total</b>			<b>92</b>	<b>6.6</b>													



\* 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	NA																
Button mushroom	NA																
Vermicompost	NA																
Sericulture	NA																
Apiculture	NA																
Other (Specify)	NA																
Total																	

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters (Availability of Veg./day)		% change in major parameter	Other parameter (Consumption of Veg./day)		*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
Nutritional Garden	Demonstration on nutritional garden for improving nutritional security of farm family	10	10	3.5 kg	1.0 kg	71.4	1 kg	1 kg	1200	2880	1680	2.4	600	1080	480	1.8

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters (Keeping quality)		% change in major parameter	Other parameter (Sensory parameter in 5 point hedonic scale)		*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



Value Addition	Demonstration on value addition in tomato	10	10	120 days	7 days	800.0	4	-	25	80	55	3.2	25	25	00	1.0
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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

### Women empowerment

Category	Name of technology	No. of demonstrations	Observations ( <b>Keeping quality</b> )		Remarks
			Demonstration	Check	
Farm Women	Demonstration on Value addition in tomato	10	120 days	7 days	It helped in income generation
Pregnant women	NA		Observations ( <b>Availability of Veg./day</b> )		
Adolescent Girl	NA		Demonstration	Check	
Other women	Demonstration on nutritional garden for improving nutritional security of farm family	10	3.5 kg	1.0 kg	It provided nutritional security to the family throughout the year
Children	NA				
Neonatal	NA				
Infants	NA				

### Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Field observation (output/man hour)		% change in major parameter	Labor reduction (man days)	Cost reduction (Rs./ha or Rs./Unit)
					Demonstration	Check			
Bullock drawn puddler	Rice	Demonstration on Bullock drawn puddler for puddling in Rice	10	1.0	33 q/ha	31 q/ha	6.4	4	8140
Mini Power Weeder	Maize	Demonstration of Mini Power Weeder (1.8 hp) in Maize for weeding during Rabi season	10	1.0	Result awaited	Result awaited	Result awaited	Result awaited	Result awaited
Bullock drawn seed cum fertilizer drill	Maize	Demonstration on Bullock drawn seed cum fertilizer drill	10	1.0	Result awaited	Result awaited	Result awaited	Result awaited	Result awaited



Bengalgram											
Redgram											
Others (Pl.specify)											
Total											
Vegetable crops											
Bottle gourd											
Capsicum											
Cucumber											
Tomato											
Brinjal											
Okra											
Onion											
Potato											
Field bean											
Cabbage	Hare Krishna	12	1.5	334.7	204.3	63.8	67900	334700	266800	4.9	
Cauliflower	Poornima	16	1.5	291.5	181.4	60.7	78700	437250	358550	5.6	
Others (Pl.specify)											
Total											
Commercial crops											
Cotton											
Coconut											
Others (Pl.specify)											
Total											
Fodder crops											
Napier (Fodder)											
Maize (Fodder)											
Sorghum (Fodder)											
Others (Pl.specify)											
<b>Total</b>		<b>38</b>	<b>3.4</b>								

### Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Rice	Rice followed by Maize Followed by Cowpea is the promising productive and remunerative cropping system which produces year round income
2	Ragi	Line sowing of <i>Kalua</i> variety, moderately resistant to leaf, neck and finger blast and brown seed. Can tolerate dry spell of 10-12 days at vegetative and 6-8 days at reproductive stages.
3	Sweet corn	Cultivation of Sweet corn variety 'Sugar 75', Seed rate 5 kg/ha, Spacing 60cm × 30cm, with soil test based fertilizer application
4	Maize+cow pea	INM practices for maize + cowpea intercropping system increases the yield of both the crops and farmers got more income from this system
5	Cauliflower	INM practices for off-season cauliflower cultivation enhanced the yield of the crop so that farmers earned a good net profit
6	Niger	INM practices for niger cultivation enhanced the yield of the crop.
7	Horsegram	INM practices for horsegram cultivation enhanced the yield of the crop
8	Garden pea	Farmers appreciated this technology due to higher yield and net income
9	Cabbage	Farmers appreciated this technology due to higher yield and net income
10	Cauliflower	Farmers appreciated this technology due to higher yield and net income
11	Groundnut	Application of post-emergence herbicide Imazethapyr increased the yield by 33.3 % and also reduced the labour involvement considerably
12	Cow Pea	Kashi Kanchan variety of cow pea has good market demand and good in taste. Seed production of this variety will increase the area. However Utkala Manika variety has good kitchen demand due to fleshy in nature. Farmers are now saling green fruits & cow pea seeds using as pulse in diet.
13	Bitter gourd	HDPE Nylon netting improves the nos. of branches & fruits. Apart from that off season bitter gourd has good market rate and demand of Nylon netting in other vegetables increases among the farmers. Plan done to make SLTS in cucumber.
14	Chilli	Arka Meghana variety of chilli has good market demand and use as green as well as red chilli. It helps during distress sale of green chilli. Red chilli powder industry needs to develop.
15	Garden Pea	Garden pea variety VL Sabji Matar – 14 has potentiality to fruit more than traditional variety GH-10. This variety is early flowering & fruiting with maximum pod numbers and sweet in taste. Horizontal spread of technology required.
16	Maize	Using the power weeder in maize not only saves time, but also performed the operation with very less cost and labour involvement
17	Cabbage	By using manual vegetable transplanter, the farmer can transplant as high as 10 seedlings per minute which saves 30 mandays/ha
18	Maize	Use of Bullock drawn five row seed cum fertilizer drill is a bit heavy for the bullocks of kandhamal district but the performance of the implement is quite satisfactory
19	Rice	Bullock drawn puddler is very much effective in puddling and reducing the time to puddle when there is considerable amount of standing water in the field.

### Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training	11.08.2021 21.08.2021 23.12.2021	03	90	Horticulture trainings on cow pea, SLTS in bitter gourd & high value crop Garden peas been conducted & package of practices related to FLD discussed.
		18.09.2021	1	30	Training programmes on INM practices were organized
		22.09.2021	1	30	
		05.10.2021	1	30	
		18.11.2021	1	30	
		24.11.2021	1	30	

		24.12.2021	1	30	
3.	Media coverage				
4.	Training for extension functionaries				

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2021 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	Niger	Desi Tila	3.9	78	38	8-10	<ul style="list-style-type: none"> <li>Use of improved variety Utkal Niger-150 having seed rate @ 10 kg/ha</li> <li>Line sowing (with spacing 30x10 cm)</li> <li>Seed treatment with Vitavax power @ 2 gm per kg seed</li> <li>Alternate sprayings of Imidachloprid @ 3ml/10 liter of water, Neem oil @ 5 ml per liter, Carbendazim + Mancozeb @ 2gm/ lit. and Cloropyrifos + Cypermethrin @ 2 ml / lit.</li> <li>Soil test based fertilizer application (based on the recommend</li> </ul>	25	10	6.1	3.8	4.9	41.1	33.6	(- )32.1

							ed dose of 40:20:20 kg NPK / ha).								
2	Mustard	Giriraj	4.5	18	15	550	<ul style="list-style-type: none"> <li>• Use of improved variety Giriraj, Seed rate @ 10 kg/ha,</li> <li>• Seed treatment with Vitavax power @ 2 gm per kg seed</li> <li>• Line sowing (with spacing 30x10 cm)</li> <li>• Application of Boron @ 1kg/ha, Soil test based fertilizer application (based on the recommended dose of 60:30:30 kg NPK/ha)</li> <li>• Alternative spraying of Thiomet</li> </ul>	50	20	8.2	7.5	7.7	78.2	77.0	(-) 23.0

							hoxan @ 5gm/15 liter of water and Neem oil @ 5 ml per liter												
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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	<ul style="list-style-type: none"> <li>Use of improved variety Utkal Niger-150 having seed rate @ 10 kg/ha</li> <li>Line sowing (with spacing 30x10cm)</li> <li>Seed treatment with Vitavax power @ 2 gm per kg seed</li> <li>Alternate sprayings of Imidachloprid @ 3ml/10 liter of water, Neem oil @ 5 ml per liter, Carbendazim + Mancozeb @ 2gm/lit. and Cloropyriphos + Cypermethrin @ 2 ml / lit.</li> <li>Soil test based fertilizer application (based on the recommended dose of 40:20:20 kg NPK / ha).</li> </ul>	8900	19890	10990	2.23	10500	27183	16683	2.6
3	<ul style="list-style-type: none"> <li>Use of improved variety Uttra, Seed rate @ 10 kg/ha,</li> <li>Seed treatment with Vitavax power @ 2 gm per kg seed</li> </ul>	11200	19350	8150	1.7	15600	33110	17510	2.1

<ul style="list-style-type: none"> <li>• Line sowing (with spacing 30x10 cm)</li> <li>• Application of Boron @ 1kg/ha, Soil test based fertilizer application (based on the recommended dose of 60:30:30 kg NPK/ ha)</li> <li>• Alternate sprayings of Thiomethoxan @ 5gm/15 liter of water and Neem oil @ 5 ml per liter</li> </ul>								
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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/household)
1	Niger, Utkal Niger 150	11400	327.5	50	700	500	To purchase household commodities and education for children	24
2	Mustard, Giriraj	15400	276	43	20	12	To purchase household commodities and education for children	28

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

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					Suggestions, for change/improvement, if any
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	
1	• Use of improved	Sustainable	Linked	Affordable	NO	Yes	No



<p>variety Utkal Niger-150 having seed rate @ 10 kg/ha</p> <ul style="list-style-type: none"> <li>• Line sowing (with spacing 30x10cm)</li> <li>• Seed treatment with Vitavax power @ 2 gm per kg seed</li> <li>• Alternate sprayings of Imidachloprid @ 3ml/10 liter of water, Neem oil @ 5 ml per liter, Carbendazim + Mancozeb @ 2gm/ lit. and Cloropyriphos + Cypermethrin @ 2 ml / lit.</li> <li>• Soil test based fertilizer application (based on the recommended dose of 40:20:20 kg NPK / ha).</li> </ul>		<p>with KASAM, Phulbani for marketing</p>				
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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 improved variety Utkal niger 150	Yield of the crop gave 71 % higher yield than the local check	Seed yield of niger increased 18 % over local check	Farmers accepted this variety due to higher yield than local tila varieties
Seed treatment	The pest and disease incidences were found to be negligible at the early stage of the crop	Seed yield of niger increased 06 % over local check	Farmers were convinced that, due to seed treatment the crop escaped early infestation of sucking pests and diseases
Line sowing	The branching was optimum and intercultural operations were easily performed	Seed yield of niger increased 11.6 % over local check	Due to line sowing , the yield enhanced as well as it is very easy for intercultural operations

Soil test based fertilizer application	Due to STBFR, the crop got more flower, bold seeds and yield	Seed yield of niger increased 18.5 % over local check	Farmers were interested to use fertilizers and micronutrients as per soil test results
Use of PP chemicals at proper time and doses	The crop could manage all the diseases and pest incidences throughout the cropping season	Seed yield of niger increased 17 % over local check	Farmers were interested to use PP chemicals at proper time and doses

#### F. Extension activities under CFLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Training Programme	28.07.2021 -Pleheri 05.08.2021- Pangali 29.09.2021 -Budedipada	75
2	Group Discussion	22.07.2021 -Pleheri 05-10-2021 -Kalanaju	30
3	Field Day	28.01.2022 -Pleheri 04.02.2022 -Tiangia	50

#### G. Sequential photographs



#### H. Farmers' training photographs



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



### J. Details of budget utilization

Crop (provide crop wise information )	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Niger	i) Critical input		48014	
	ii) TA/DA/POL etc. for monitoring(Flex and Audit charge)		1986	
	iii) Extension Activities (Field day)		0	
	iv)Publication of literature		70	
	Total	50,000	50,000	NIL

Crop (provide crop wise information )	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Mustard	i) Critical input		1,08,000	
	ii) TA/DA/POL etc. for monitoring(Flex and Audit charge)		960	









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			
Vermiculture	1	0	0	0	0	0	0	14	1	15	14	1	15
Mushroom Production	-	-	-	-	-	-	-	-	-	-	-	-	-
Beekeeping	-	-	-	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastic in Agriculture	1	3	0	3	4	0	4	7	0	7	15	0	15
<b>Total</b>	<b>9</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>112</b>	<b>15</b>	<b>127</b>	<b>135</b>	<b>15</b>	<b>150</b>

### C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops	1	2	1	3	4	0	4	8	0	8	14	1	15
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-	-	-	-
Application of PGR in Horticultural crops.	1	03	02	05	04	01	05	04	01	05	11	04	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				
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Micro Irrigation	1	04	1	5	1	-	1	9	-	9	14	1	15	
Plant nutrient deficiency symptoms and their management strategies	1	1	0	1	1	1	2	12	0	12	14	1	15	
<b>Total</b>	<b>4</b>	<b>10</b>	<b>4</b>	<b>14</b>	<b>10</b>	<b>2</b>	<b>12</b>	<b>33</b>	<b>1</b>	<b>34</b>	<b>53</b>	<b>7</b>	<b>60</b>	

#### D) Farmers and farm women (off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
<b>I. Crop Production</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weed Management	2	6	4	10	12	4	16	14	10	24	32	18	50	
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cropping Systems	1	1	1	2	4	2	6	11	6	17	16	9	25	
Crop Diversification	1	4	0	4	6	2	8	9	4	13	19	6	25	
Integrated Farming	2	4	2	6	9	7	16	13	15	28	26	24	50	
Water management	-	-	-	-	-	-	-	-	-	-	-	-	-	
Seed production	1	0	2	2	4	3	7	10	6	16	14	11	25	
Nursery management	-	-	-	-	-	-	-	-	-	-	-	-	-	
Integrated Crop Management	2	3	1	4	4	7	11	27	8	35	34	16	50	
Fodder production	-	-	-	-	-	-	-	-	-	-	-	-	-	
Production of organic inputs	1	2	2	4	3	6	9	5	7	12	10	15	25	
Others, (cultivation of crops )	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Total</b>	<b>10</b>	<b>20</b>	<b>12</b>	<b>38</b>	<b>42</b>	<b>31</b>	<b>73</b>	<b>89</b>	<b>56</b>	<b>145</b>	<b>151</b>	<b>99</b>	<b>250</b>	
<b>II. Horticulture</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>a) Vegetable Crops</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	
Production of low volume and high value crops	1	01	04	05	03	02	05	10	05	15	14	11	25	
Off-season vegetables tomato farming	1	02	01	03	05	05	10	08	04	12	15	10	25	
Nursery raising	-	-	-	-	-	-	-	-	-	-	-	-	-	
Exotic vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	
Export potential vegetables onion farming	1	05	00	05	06	00	06	14	00	14	25	00	25	
Grading and standardization	-	-	-	-	-	-	-	-	-	-	-	-	-	
Protective cultivation (Green Houses, Shade Net, trailis etc.)	1	04	06	10	00	00	00	13	02	15	17	08	25	
Cultivation of winter & under utilize	1	00	01	01	01	06	07	09	08	17	10	15	25	

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
vegetables														
<b>Total (a)</b>	<b>5</b>	<b>12</b>	<b>12</b>	<b>24</b>	<b>15</b>	<b>13</b>	<b>28</b>	<b>54</b>	<b>19</b>	<b>73</b>	<b>81</b>	<b>44</b>	<b>125</b>	
<b>b) Fruits</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	
Layout and Management of Orchards	1	00	00	00	01	05	06	07	12	19	08	17	25	
Cultivation of Fruit Planting mechanism.	1	03	01	04	03	03	06	13	02	15	19	06	25	
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-	-	-	-	
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-	-	-	-	
Export potential fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-	-	-	-	
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Total (b)</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>12</b>	<b>20</b>	<b>14</b>	<b>34</b>	<b>27</b>	<b>23</b>	<b>50</b>	
<b>c) Ornamental Plants</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nursery Management	-	-	-	-	-	-	-	-	-	-	-	-	-	
Management of potted plants	-	-	-	-	-	-	-	-	-	-	-	-	-	
Export potential of ornamental plants	01	00	00	00	03	03	06	09	10	19	12	13	25	
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-	-	-	-	
Others	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Total (c)</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>9</b>	<b>10</b>	<b>19</b>	<b>12</b>	<b>13</b>	<b>25</b>	
<b>d) Plantation crops</b>														
Production and Management technology & MSP	1	00	01	01	00	00	00	13	11	24	13	12	25	
Processing and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-	
Others	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Total (d)</b>	<b>1</b>	<b>00</b>	<b>01</b>	<b>01</b>	<b>00</b>	<b>00</b>	<b>00</b>	<b>13</b>	<b>11</b>	<b>24</b>	<b>13</b>	<b>12</b>	<b>25</b>	
<b>e) Tuber crops</b>														
Production and Management technology of tuber crop & multiplication.	1	0	1	1	0	0	0	13	11	24	0	13	12	
Processing and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-	
Improve method of Potato farming	1	02	00	02	06	00	06	15	02	17	23	02	25	
<b>Total (e)</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>19</b>	<b>26</b>	<b>26</b>	<b>17</b>	<b>36</b>	<b>14</b>	<b>50</b>	
<b>f) Spices</b>														
Production and Management technology (organic Spices production)	1	2	3	5	4	0	4	12	4	16	18	7	25	
Processing and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-	
Others	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Total (f)</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>12</b>	<b>4</b>	<b>16</b>	<b>18</b>	<b>7</b>	<b>25</b>	
<b>g) Medicinal and Aromatic Plants</b>														
Nursery management	-	-	-	-	-	-	-	-	-	-	-	-	-	
Production and management technology	-	-	-	-	-	-	-	-	-	-	-	-	-	
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-	
Others	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Total (g)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
<b>Total(a-g)</b>	<b>12</b>	<b>19</b>	<b>18</b>	<b>37</b>	<b>32</b>	<b>24</b>	<b>56</b>	<b>136</b>	<b>71</b>	<b>207</b>	<b>187</b>	<b>113</b>	<b>300</b>	
<b>III. Soil Health and Fertility Management</b>														
Soil fertility management	1	0	0	0	0	1	1	18	6	24	18	7	25	
Integrated water management	1	0	0	0	0	0	0	25	0	25	25	0	25	
Integrated Nutrient Management	6	0	0	0	11	2	13	121	26	147	132	28	160	

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance Use of fertilizer	2	0	0	0	1	3	4	43	3	46	44	6	50	
Soil & water testing	1	0	0	0	2	0	2	20	8	28	22	8	30	
others	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>6</b>	<b>20</b>	<b>227</b>	<b>43</b>	<b>270</b>	<b>241</b>	<b>49</b>	<b>290</b>	
<b>IV. Livestock Production and Management</b>														
Dairy Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Feed & fodder technologies	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
<b>V. Home Science/Women empowerment</b>														
Household food security by kitchen gardening and nutrition gardening	2	0	2	2	0	13	13	0	35	35	0	50	50	
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-	-	-	-	
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-	-	-	-	
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-	-	-	-	
Processing & cooking	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-	-	-	
Storage loss minimization techniques	1	0	1	1	0	3	3	0	21	21	0	25	25	
Value addition	1	0	6	6	0	14	14	0	5	5	0	25	25	
Women empowerment	1	0	0	0	0	8	8	0	17	17	0	25	25	
Location specific drudgery reduction technologies	1	0	1	1	0	2	2	0	22	22	0	25	25	
Rural Crafts	-	-	-	-	-	-	-	-	-	-	-	-	-	
Women and child care	-	-	-	-	-	-	-	-	-	-	-	-	-	
Others(Enterprise development)	3	0	4	4	0	26	25	0	45	45	0	75	75	
<b>Total</b>	<b>9</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>0</b>	<b>66</b>	<b>66</b>	<b>0</b>	<b>145</b>	<b>145</b>	<b>0</b>	<b>225</b>	<b>225</b>	
<b>VI. Agril. Engineering</b>														
Farm machinery & its maintenance	8	0	2	2	15	16	31	120	47	167	135	65	200	
Installation and maintenance of micro irrigation systems	1	1	1	2	5	3	8	10	5	15	16	9	25	
Use of Plastics in farming practices	1	0	0	0	5	5	10	5	10	15	10	15	25	
Production of small tools and implements	1	0	1	1	0	04	04	0	20	20	0	25	25	
Repair and maintenance of farm machinery and implements	1	2	0	2	7	3	10	10	3	13	19	6	25	
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-	
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-	-	-	-	
Others	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Total</b>	<b>12</b>	<b>3</b>	<b>4</b>	<b>7</b>	<b>32</b>	<b>31</b>	<b>63</b>	<b>145</b>	<b>85</b>	<b>230</b>	<b>180</b>	<b>120</b>	<b>300</b>	





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			
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-	-	-	-	-	-	-

### F) Extension Personnel (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-	-	-	-	-	-	-

### G) Consolidated table (ON and OFF Campus)

#### i. Farmers & Farm Women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
<b>I. Crop Production</b>	2	6	4	10	12	4	16	14	10	24	32	18	50
Weed Management	-	-	-	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	1	1	1	2	4	2	6	11	6	17	16	9	25
Cropping Systems	1	4	0	4	6	2	8	9	4	13	19	6	25

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Crop Diversification	2	4	2	6	9	7	16	13	15	28	26	24	50
Integrated Farming	-	-	-	-	-	-	-	-	-	-	-	-	-
Micro irrigation/irrigation	1	0	2	2	4	3	7	10	6	16	14	11	25
Seed production	-	-	-	-	-	-	-	-	-	-	-	-	-
Nursery management	2	3	1	4	4	7	11	27	8	35	34	16	50
Integrated Crop Management	1	2	2	4	3	6	9	5	7	12	10	15	25
Soil & water conservation	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated nutrient Management	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>10</b>	<b>20</b>	<b>12</b>	<b>32</b>	<b>42</b>	<b>31</b>	<b>67</b>	<b>89</b>	<b>56</b>	<b>145</b>	<b>151</b>	<b>99</b>	<b>250</b>
<b>II. Horticulture</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>a) Vegetable Crops</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of low volume and high value crops	1	01	04	05	03	02	05	10	05	15	14	11	25
Off-season vegetables tomato farming	1	02	01	03	05	05	10	08	04	12	15	10	25
Nursery raising	-	-	-	-	-	-	-	-	-	-	-	-	-
Exotic vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-
Export potential vegetables onion farming	1	05	00	05	06	00	06	14	00	14	25	00	25
Grading and standardization	-	-	-	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net, trailis etc.)	1	04	06	10	00	00	00	13	02	15	17	08	25
Cultivation of winter & under utilize vegetables	1	00	01	01	01	06	07	09	08	17	10	15	25
<b>Total (a)</b>	<b>5</b>	<b>12</b>	<b>12</b>	<b>24</b>	<b>15</b>	<b>13</b>	<b>28</b>	<b>54</b>	<b>19</b>	<b>73</b>	<b>81</b>	<b>44</b>	<b>125</b>
<b>b) Fruits</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	1	00	00	00	01	05	06	07	12	19	08	17	25
Cultivation of Fruit Planting mechanism.	1	03	01	04	03	03	06	13	02	15	19	06	25
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total (b)</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>12</b>	<b>20</b>	<b>14</b>	<b>34</b>	<b>27</b>	<b>23</b>	<b>50</b>
<b>c) Ornamental Plants</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
Nursery Management	-	-	-	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	1	00	00	00	03	03	06	09	10	19	12	13	25
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total (c)</b>	<b>1</b>	<b>00</b>	<b>00</b>	<b>00</b>	<b>03</b>	<b>03</b>	<b>06</b>	<b>09</b>	<b>10</b>	<b>19</b>	<b>12</b>	<b>13</b>	<b>25</b>
<b>d) Plantation crops</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
Production and Management technology & MSP for horticultural crops	1	00	01	01	00	00	00	13	11	24	13	12	25
Processing and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total (d)</b>	<b>1</b>	<b>00</b>	<b>01</b>	<b>01</b>	<b>00</b>	<b>00</b>	<b>00</b>	<b>13</b>	<b>11</b>	<b>24</b>	<b>13</b>	<b>12</b>	<b>25</b>
<b>e) Tuber crops</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
Production and Management technology Cultivation of tuber crop	1	00	01	01	00	00	00	13	11	24	13	12	25











Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
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													
Micro Irrigation	1	04	1	5	1	-	1	9	-	9	14	1	15
Plant nutrient deficiency symptoms and their management strategies	1	1	0	1	1	1	2	12	0	12	14	1	15
<b>Total</b>	<b>4</b>	<b>10</b>	<b>4</b>	<b>14</b>	<b>10</b>	<b>2</b>	<b>12</b>	<b>33</b>	<b>1</b>	<b>34</b>	<b>53</b>	<b>7</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
<b>Crop Production</b>	Farmers/Farm women	Package of practices for finger millet cultivation	1	Off	3	22	25	3	22	25
	Farmers/Farm women	Integrated weed management in transplanted rice	1	Off	16	9	25	16	8	24
	Farmers/Farm women	Importance of crop diversification in Agriculture	1	Off	4	21	25	4	21	25
	Farmers/Farm women	Production techniques for sweet corn cultivation	1	Off	15	10	25	15	10	25
	Farmers/Farm women	Importance and methods involved in brown manuring in rice	1	Off	15	10	25	15	10	25
	Farmers/Farm women	Importance of green manuring for soil health improvement	1	Off	16	9	25	16	9	25
	Farmers/Farm women	Production techniques for sweet corn cultivation	1	Off	12	13	25	14	7	21
	Farmers/Farm women	Integrated weed management in garden pea	1	Off	9	16	25	18	5	23
	Farmers/Farm women	Package of practices for	1	Off	18	7	25	20	2	22

		Sunflower cultivation								
	Farmers/Farm women	Package of practices for Field pea cultivation	1	Off	10	15	25	8	16	24
<b>Horticulture</b>	Farmers/Farm women	Trelis Management in Runner vegetables.	1	Off	18	07	25	13	02	15
	Farmers/Farm women	Cultivation of alternative high value crops.	1	Off	14	11	25	13	07	20
	Farmers/Farm women	Planting Mechanism in fruit crops.	1	Off	21	04	25	16	05	21
	Farmers/Farm women	Management of fruit crops.	1	Off	08	17	25	08	17	25
	Farmers/Farm women	Cultivation of Onion.	1	Off	25	00	25	20	00	20
	Farmers/Farm women	Cultivation of seed tuber multiplication of tuber crops.	1	Off	13	12	25	13	11	24
	Farmers/Farm women	Cultivation of Winter & underutilised vegetables.	1	Off	10	15	25	10	14	24
	Farmers/Farm women	Improve method of cultivation of Potato.	1	Off	23	02	25	21	02	23
	Farmers/Farm women	Cultivation of high market demand flowers & its Marketing.	1	Off	13	12	25	12	13	25
	Farmers/Farm women	Off season Tomato farming.	1	Off	15	10	25	13	09	22
	Farmers/Farm women	Organic Spices (Onion, Chilli, Pepper) cultivation.	1	Off	18	07	25	16	04	20
	Farmers/Farm women	MSP & its role in Horticulture produce.	1	Off			25	13	11	24
<b>Agricultural Engineering</b>	Farmers/Farm women	Operation on bullock drawn farm implements	1	Off	11	14	25	11	14	25
	Farmers/Farm women	Operation of bullock drawn puddler	1	Off	16	09	25	16	08	24
	Farmers/Farm women	Operation of paddy transplanter for transplanting of paddy	1	Off	14	11	25	14	10	24

	Farmers/Farm women	Operation of drum seeder for direct sowing of paddy	1	Off	24	1	25	24	01	25
	Farmers/Farm women	Different drudgery reducing farm implements for women	1	Off	0	25	25	0	24	25
	Farmers/Farm women	Use of different plant protection equipments	1	Off	19	06	25	17	06	23
	Farmers/Farm women	Small harvesting implements	1	Off	1	24	25	1	24	25
	Farmers/Farm women	Use of manual vegetable transplanter	1	Off	20	05	25	20	05	25
	Farmers/Farm women	Use of micro irrigation system in horticulture crops	1	Off	16	09	25	15	08	23
	Farmers/Farm women	Use of different intercultural implements in vegetable crop	1	Off	23	02	25	23	02	25
	Farmers/Farm women	Operation of power weeder in vegetables	1	Off	20	05	25	20	05	25
	Farmers/Farm women	Water management techniques for soil moisture conservation	1	Off	10	15	25	10	15	25
<b>Home Science</b>	Farm women	Cultivation practices of paddy straw mushrooms	1	Off	0	25	25	0	24	24
	Farm women	Improved backyard poultry rearing	1	Off	0	25	25	0	25	25
	Farm women	Planning and layout of nutritional garden	2	Off	0	50	50	0	48	48
	Farm women	Use of indigenous techniques for storing grains	1	Off	0	25	25	0	24	24
	Farm women	Use of small implements for drudgery reduction of farm woman	1	Off	0	25	25	0	24	24
	Farm women	Value addition of tomato for additional	1	Off	0	25	25	0	19	19

		income generation								
	Farm women	Cultivation practices of oyster mushroom	2	Off	0	50	50	0	47	47
	Farm women	Cultivation practices of oyster mushroom	1	On	0	25	25	0	21	21
<b>Plant protection</b>	Farmers/Farm women	IDM in Turmeric & Ginger	1	Off	16	9	25	16	9	25
	Farmers/Farm women	IPM in Toria	1	Off	19	06	25	17	06	23
	Farmers/Farm women	IPM in solanaceous crops	1	Off	14	11	25	14	10	24
	Farmers/Farm women	IDM in solanaceous crops	1	Off	16	9	25	16	9	25
	Farmers/Farm women	IPM in Banana	1	Off	10	15	25	10	15	25
	Farmers/Farm women	IPDM in cole crops	1	Off	16	9	25	16	9	25
	Farmers/Farm women	IDM in Okra	1	Off	14	11	25	14	10	24
<b>Soil Science</b>	Farmers/Farm women	INM for chilli cultivation	1	Off	23	7	30	23	7	30
	Farmers/Farm women	INM practices for off-season vegetable cultivation	1	Off	25	5	30	25	5	30
	Farmers/Farm women	Importance of soil and water testing for sustainable agriculture	1	Off	22	8	30	22	8	30
	Farmers/Farm women	Management of acid soils for higher crop productivity	1	On	28	2	30	28	2	30
	Farmers/Farm women	Green manure crops and their uses for soil health management	1	Off	18	7	25	18	7	25
	Farmers/Farm women	Rain water management for increased crop productivity	1	Off	25	0	25	25	0	25
	Farmers/Farm women	INM practices for chilli cultivation	1	Off	21	4	25	21	4	25
	Farmers/Farm women	INM practices for off-season vegetable cultivation	1	Off	19	6	25	19	6	25
	Farmers/Farm women	Organic nutrient	1	Off	25	0	25	25	0	25

		management practices for intercropping systems								
	Farmers/Farm women	INM practices for oilseed cultivation	1	Off	19	6	25	19	6	25
	Farmers/Farm women	Balanced use of fertilizers and organic manure in pulse cultivation	1	Off	19	6	25	19	6	25

## H) Vocational training programmes for Rural Youth

### a) Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			Number of persons employed elsewhere
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Seed production	Seed production	Quality Seed Production technique	2	11	4	15			04	
vegetables	Weed problem and moisture conservation	Use of Poly-mulch in vegetables	2	15	-	15			05	
Azolla production	Production and use of organic inputs	Production technique and use of Azolla for soil health management	2	18	2	20	Low cost	02	02	
Vermiculture	Vermiculture	Practices and skill in production of earth worm and maintenance of vermiculture unit	2	18	2	20	Cemented tank	07	07	
Vermicompost	Production and use of organic inputs	Practices and skill in production of vermicompost and vermin-wash	2	16	4	20	Cemented tank	05	05	
Vermiculture	Vermiculture	Practices and skill in production of earth worm and maintenance of vermiculture unit	2	12	3	15	Cemented tank	03	03	







Spices crops													
Soil health and fertility management													
Production of Inputs at site													
Methods of protective cultivation													
Other													
Total													
<b>Post harvest technology and value addition</b>													
Processing and value addition													
Other													
Total													
<b>Farm machinery</b>													
Farm machinery, tools and implements													
Energy Conservation	4	10	10	20	40	30	70	20	10	30	70	50	120
Total	4	10	10	20	40	30	70	20	10	30	70	50	120
<b>Livestock and fisheries</b>													
Livestock production and management													
Animal Nutrition Management													
Animal Disease Management													
Fisheries Nutrition													
Fisheries Management													
Other													
Total													
<b>Home Science</b>													
Household nutritional security													
Economic empowerment of women													
Drudgery reduction of women													
Other													
Total													
<b>Agricultural Extension</b>													
Capacity Building and Group Dynamics													
Other													
Total	4	10	10	20	40	30	70	20	10	30	70	50	120
<b>Grant Total</b>	4	10	10	20	40	30	70	20	10	30	70	50	120

## 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	7	100	50	150	95	7	5	12	107	55	162
Kisan Mela	1	80	90	170	95	7	4	11	87	94	181
Kisan Ghosthi	3	50	25	75	95	-	-	-	50	25	75
Exhibition	1	80	90	170	95	7	4	11	87	94	181
Film Show	25	60	40	100	95	-	-	-	60	40	100
Method Demonstrations	-	-	-	-	-	-	-	-	-	-	-
Farmers Seminar	1	20	-	20	95	5	-	5	25	-	25
Workshop	4	70	50	120	95	-	-	-	70	50	120
Group meetings	26	100	35	135	95	3	2	5	103	37	140
Lectures delivered as resource persons	50	550	200	750	72	7	3	10	557	203	760
Advisory Services	13	25021	3002	28023	95	200	73	273	25221	3275	28496
Scientific visit to farmers field	150	250	110	360	85	8	10	18	258	120	378
Farmers visit to KVK	300	1000	2500	3500	87	10	15	25	1010	2515	3525
Diagnostic visits	46	125	110	235	95	7	4	11	132	114	246
Exposure visits	-	-	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	2	10	40	50	95	2	2	4	12	42	54
Soil health Camp	-	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	-	-	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	5	65	15	80	87	2	2	4	67	17	84
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	30	-	125	125	95	2	7	9	2	132	134
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	7	86	124	210	92	5	3	8	89	127	216
Sankalp Se Siddhi	-	-	-	-	-	-	-	-	-	-	-
Swatchta Hi Sewa	17	84	16	100	82	4	4	8	88	20	108
Mahila Kisan Divas	1	-	40	40	95	4	3	7	4	43	47
Any Other (Specify)	-	-	-	-	-	-	-	-	-	-	-
Total	689	27751	6662	34413		280	141	421	28029	7003	35032

## B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	9
Radio talks	1
TV talks	0
Popular articles	-
Extension Literature	4
Other, if any	-

## 3.5 a. Production and supply of Technological products-NA

*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	
Turmeric	Roma, Rasmi	Not harvested		-	-	-	-	-	-	-	-	-
Niger	Utkal Niger 150	Not Processed		-	-	-	-	-	-	-	-	-
Toria	Sushree	Not Processed		-	-	-	-	-	-	-	-	-
Paddy	Ankit	Not Processed		-	-	-	-	-	-	-	-	-
Grand Total												

## Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Vegetable seedlings	-	-	-	-	-	-	-	-	-	-	-
Cauliflower	Megha, Burkha	1070	1070	15	2	20	3	2	1	37	6

Cabbage	Harekrishna	1295	1295	5	1	18	2	3	2	26	5
Tomato	Bhagya,Utkal-Kumari	4725	8680	6	3	21	5	2	2	29	10
Brinjal	JK-8039	2710	2710	5	1	15	3	2	1	22	5
Chilli	Kalika,Kalash	2590	2590	4	2	3	3	3	3	10	8
Onion	Indam-manikya	8640	2880	7	3	25	8	4	1	36	12
Others	-	-	-	-	-	-	-	-	-	-	-
<b>Fruits</b>	-	-	-	-	-	-	-	-	-	-	-
Mango	-	-	-	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-	-	-	-
Lime	-	-	-	-	-	-	-	-	-	-	-
Papaya	Honey-Dew, Hybrid Lunar	522	13,050	5	2	32	17	15	6	52	25
Banana	-	-	-	-	-	-	-	-	-	-	-
Drumstick	PKM-1	164	2460	4	4	22	18	4	3	30	25
Ornamental plants	-	-	-	-	-	-	-	-	-	-	-
Medicinal and Aromatic	-	-	-	-	-	-	-	-	-	-	-
Plantation	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-
Turmeric	-	-	-	-	-	-	-	-	-	-	-
Tuber	-	-	-	-	-	-	-	-	-	-	-
Elephant yams	-	-	-	-	-	-	-	-	-	-	-
Fodder crop saplings	-	-	-	-	-	-	-	-	-	-	-
Forest Species	-	-	-	-	-	-	-	-	-	-	-
Mushroom Spawn	Oyster &Paddy straw mushroom	5000	82200	14	106	12	132	20	25	46	263
<b>Total</b>		<b>26716</b>	<b>116935</b>	<b>65</b>	<b>124</b>	<b>168</b>	<b>191</b>	<b>55</b>	<b>44</b>	<b>288</b>	<b>359</b>

### Production of Bio-Products

Name of product	Quantity		Value (Rs.)	No. of Farmers benefitted									
	Kg			SC		ST		Other		Total			
	M	F	M	F	M	F	M	F	M	F			
Bio-fertilizers													
Bio-pesticide													
Bio-fungicide													
Bio-agents													
Vermicompost		7298	109470	8	3	22	16	9	5	39	24		
Vermin		36.5	18250	6	5	32	19	10	6	48	30		
<b>Total</b>		<b>7334.5</b>	<b>127720</b>	<b>14</b>	<b>8</b>	<b>54</b>	<b>35</b>	<b>19</b>	<b>11</b>	<b>87</b>	<b>54</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/Kaling Brown	5000	123934	50	5	72	15	30	3	152	23
Japanese Quail											
Turkey											
Emu											
Ducks											
Others (Pl. specify)											
<b>Piggery</b>											
Piglet											
Hog											
Others (Pl. specify)											
<b>Fisheries</b>											
Indian carp											
Exotic carp											
Mixed carp											
Fish fingerlings											
Spawn											
Others (Pl. specify)											
<b>Grand Total</b>		<b>5000</b>	<b>123934</b>	<b>50</b>	<b>5</b>	<b>72</b>	<b>15</b>	<b>30</b>	<b>3</b>	<b>152</b>	<b>23</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:-NA

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

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)
--------	------	---------	----------------

			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2020	Turmeric	Roma,Ra smi,Raje ndra-Sonia,Lakadong	60	0.6	74.4	TL
	Niger	Utkal-Niger 150	4	2	4.24	FS
Rabi 2020-21	Toria	Sushree	5	1	5.6	FS
Summer/Spring 2021						
Kharif 2021	Turmeric	Roma, Rasmi	120	1	-	TL
	Niger	Utkal-Niger 150	3	1	-	FS
	Paddy	CR DHAN-101(Ankit)	10.8	0.4	-	FS
Rabi 2021-2022	Toria	Sushree	5	1	-	FS

## iii) Financial Progress

Fund received (2017-18, 2018-19, 2019-20, 2020-21, 2021-22)	Expenditure (Rs. in lakh)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2017-18				
2018-19				
2019-20				
2020-2021				
2021-2022				

## iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

3.6.

(A) Literature Developed/Published (with full title, author &amp; reference)

Item	Title	Author's name	Number	Circulation
------	-------	---------------	--------	-------------




Research paper				
Seminar/conference/ symposia papers				
Books				
Bulletins				
News letter	Kalinga	Senior Scientist and head	500	500
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature				
Technical reports				
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.					
2.					
3.					
4.					
5.					
6.					
7.					

### 3.7. Success stories/Case studies

Name of farmer	Sri Swadeep Kumar Pradhan	
Address	Vill-Gasaguda, Po-Pikaradi, Block-Tikabali	
Contact details (Phone, mobile, email Id)	9439028101	
Landholding (in ha.)	2.1 ha	
Name and description of the farm/ enterprise	He is cultivating various vegetables like tomato, brinjal and cucurbits following traditional practices. Under Tribal Sub-Plan, KVK included Mr. Pradhan as a beneficiary under the activity of cultivation of cauliflower during Rabi 2021-22. He was advised to conduct the demonstration which included, use of hybrid cauliflower, var. Poornima, seed treatment with vitavax power @ 2 gm /kg seed, application of biofertilizers @ 12 kg/ha (Azotobacter + Azospirillum + PSB: 4+4+4= 12 kg/ha), soil application of boron @ 1 kg/ha at the time of sowing, application of 75 % of recommended dose of N:P2O5:K2O as per soil test results and need based application of plant protection chemicals.	

Economic impact	After completion of the crop period, it was found that, Mr. Pradhan could able to harvest a total of 145.7 qtl cauliflower from his 0.4 ha land which accounts to a yield of about 291.5 q/ha. He got a higher price of Rs. 1,000/- per qtl due to more market demand in the peak season. He got a net profit of Rs.1,79,275/- from his 0.4 ha land which was around 60.7 % more than the traditional practice followed by other farmers in his village
Social impact	The outcome of the demonstration has motivated the other nearby farmers to adopt hybrid cauliflower cultivation with recommended package of practices to fetch more and more net profit. Mr. Pradhan's success was recognized by many leading farmers, govt. officials and other NGOs during the crop period and got him lots of confidence.
Environmental impact	He has developed a waste land of 0.4 ha into a very good irrigated productive land and has developed a vermicompost unit which recycles the bio-waste to make the environment clean.
Horizontal/ Vertical spread	58 ha



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

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology

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

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

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1	Turmeric	200	18000	900	Y

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

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

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

Sl. No	Name of the Equipment	Qty.

1	Automatic Nitrogen estimation System (KELPLUS) with accessories a. Manoblock Digestion System. b. Acidic Neutralizer Scrubber Unit. c. Automatic Nitrogen Distillation System. d. Electronic Titration System	1
2	Flame Photometer	1
3	Spectro Photometer	1
4	Plant Sample Grinder	1
5	Hot Water Bath	1
6	Horizontal Shaker	1
7	Distilled Water Unit(Stainless Steel)	1
8	Hot Air Oven	1
9	Laboratory Centrifuge	1
10	Microscope(Olympus)	1
11	Microscope(Olympus)Ms-13	1
12	BOD Incubator	1
13	Elico PH Meter	1
14	Conductivity Meter	1
15	Refrigerator	1
16	Electronic Top Pan Balance	1
17	Physical Balance	1
18	Mechanical Stirrer	1
19	Colony Counter	1
20	Hot Plate	1
21	Voltage Stabilizer	1
22	Single Distillation Unit	1

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

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
520	234	754	754	19	3770

## 3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1	Distribution of soil health card	80	10	Chairman, Zilla Parisada, Kandhamal	40	40

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

No of training programme	No of demonstrations	No of plant material produced	Visit by the farmers	Visit by the officials

--	--	--	--	--

## 3.13. Technology week celebration:-NA

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

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

No of student trained	No of days stayed
1	31

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
31.12.2021	Prasanta Kumar Satapathy, CDAO, Phulbani	KVK campus visit
21.01.2022	Mihir Kumar Samantray, DDH, Phulbani	Attended SAC meeting
21.01.2022	J K Sahu CDVO, Phulbani	Attended SAC meeting

## 4. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Management of acid soil	80	90	40000	75000
INM in vegetables	105	85	45000	90000
Vermicomposting	200	80	15000	32000
Use of farm machinery	55	50	-	-
Drudgery reducing small implements for women	40	60	-	-
Improved Poultry breeding	60	70	10000	40000
Mushroom cultivation	120	90	16000	65000
Crop diversification	50	65	33750	67500
IWM in different crops	60	45	10000	22000

## 4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread
Oyster Mushroom cultivation	40 %
Vermicomposting	70 %
INM in vegetables	65 %

Give information in the same format as in case studies

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

Sl. No.	Brief details of	Impact of the technology in	Impact of the technology in
---------	------------------	-----------------------------	-----------------------------

	technology	subjective terms	objective terms
1.			

#### 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
ATMA	Technical guidance, imparting training programmes
Dept. of Watershed	Technical guidance, imparting training programmes
Dept. of Agriculture and food production	Technical guidance, imparting training programmes, Demonstration
Dept of Horticulture	Technical guidance, imparting training programmes, Demonstration
Dept. of fisheries and animal research development	Technical guidance, imparting training programmes, Demonstration

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

a) Programmes for infrastructure development

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Establishment of Biotech KISAN Hub at OUAT, Bhubaneswar funded by Department of Biotechnology, Ministry of Science & Technology, GoI	<ul style="list-style-type: none"> <li>To apply and disseminate location-specific, clientele-specific and problem solving technological solutions the small and marginal farmers including farm women.</li> <li>To establish networking of farmers-scientist through physical and digital space.</li> <li>To develop band of farmers-scientist as connoisseur of agri-tech agents to provide last mile service.</li> </ul>	07.07.2020	Department of Biotechnology, Ministry of Science & Technology, GoI	2500000
CDAO, OFFICE Phulbani, Dept. of Agril	Farmer Scientist Interaction	December-2021	ATMA, Kandhamal	20,000

(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/br eed	Produce	Qty (q).	Cost of inputs	Gross income	
1	Vermicompost	2018-19	20 cu. meter	<i>E. foetida</i>	Vermicompost	75	37500	112500	
2	Poultry	2015-16	30	Dual purpose	Chicks	5000 nos	116440	123934	
3	Mushroom spawn	2015-16	9	PSM & Oyster	PSM & Oyster spawn	5000 nos	40000	82200	
4	Poly house	2015-16	100	Vegetable & fruits	seedling	80000	24000	120000	
5	Animal Husbandry Unit	2021-22		Duck, poultry, guinea bird, quail bird,	Newly Est.				

				turkey					
6.	Azola Unit	2021-22	25	<i>Azolla Pinnata</i>	Azolla	2.5	1000	2500	
7.	Papaya Unit	2021-22	600	F1-Lunar	Newly Est.				
8.	Orhid	2021-22	-	<i>Vanda cristata</i>	Newly Est.				
9.	Dragon fruit	2021-22	-	<i>Hylocereus undatus</i>	Newly Est.				
10	Tissue culture banana	2018-19	-	G-9	-	-	-	-	-
11	Guava	2019-19	-	Bihi	-	-	-	-	-
12	Colour fish breeding	2021-22	-	Gopi and molly	Newly Est.				
13	BGA	2021-22	-	-	Newly Est.				

## 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	
Turmeric	21.05.2021	Harvesting	1.0	Roma and Rasmi	TL	-	-	-	Not harvested
Niger	03.08.2021	14.12.2021	1.0	Utkal-Niger 150	FS	-	-	-	Not processed
Paddy	19.08.2021	15.12.2021	0.4	Ankit	FS	-	-	-	Not processed
Toria	23.10.2021	27.01.2022	1.0	Sushree	FS	-	-	-	Not processed

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

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	7298	36490	109470	
2.	Vermin	36.5	6300	18250	

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Poultry	Kadakhnath/Kalinga brown	28 days	5000	116440	123934	
2.							

## 6.5. Utilization of hostel facilities and training hall

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
NOV	80	4	
DEC	150	6	
DEC	30	2	
DEC	25	2	
DEC	25	2	
DEC	20	2	
DEC	25	2	
DEC	6	2	
Total :	361	22	

(For whole of the year)

## 6.6. Utilization of staff quarters

Whether staff quarters has been completed: Old staff quarter taken over from RRTTS

No. of staff quarters: 4

Date of completion:

Occupancy details:

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

7. FINANCIAL PERFORMANCE

## 7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
CA, Flexi (Contingency)	State Bank of India	G. Udayagiri	11754367211
CA, Flexi (Revolving Fund)	State Bank of India	G. Udayagiri	11754367222

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

Item	Released by ICAR		Expenditure		Unspent balance as on 31 <sup>st</sup> January, 2022
	Kharif	Rabi	Kharif	Rabi	
Niger	0.5		0.5		Nil
Toria		1.2		1.2	Nil

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2021
	Kharif	Rabi	Kharif	Rabi	



2019.5. Utilization of KVK funds during the year 2021-22 As on 31<sup>st</sup> January 2022 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	Pay & Allowances	8800000	7700000	7165215
2	Traveling allowances	110000	82500	82500
3	HRD	30000	22500	0
4	Contingencies			
A		2000000	1277000	1277000
B				
C				
D				
E				
F				
G				
H				
I				
J	Swachhta Expenditure/ SAP Fund	15000	0	15000
TOTAL (A)		10955000	9082000	8539715
<b>B. Non-Recurring Contingencies</b>				
1				
2				
3				
4	Library(purchase of journal etc)	10000	0	0
TOTAL (B)		10000	0	0
<b>C. REVOLVING FUND</b>		0	0	0
<b>GRAND TOTAL (A+B+C)</b>		10965000	9082000	8539715

## 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)
2020-21	1,44,975	16,87,500	6,38,387.30	11,94,087.70
2021-22	535614	354094	495956	

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

## 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
Monitoring	22	Kharif/Rabi		22	

## 8. Other information

## 8.1. Prevalent diseases in Crops-NA

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-NA

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 YuvaKendra(NYK) Training-NA

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

## 9.2. PPV &amp; FR Sensitization training Programme-NA

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

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

Type of message	No. of messages	No. of farmers covered
Crop	23	28915
Livestock	0	0
Fishery	0	0
Weather	5	28915
Marketing	0	0
Awareness	10	28915
Training information	0	0
Other	0	0
<b>Total</b>	38	

## 9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	1495
2.	No. of farmers registered in the portal	0

3.	Mobile Apps developed by KVK	0
4.	Name of the App	0
5.	Language of the App	0
6.	Meant for crop/ livestock/ fishery/ others	0
7.	No. of times downloaded	0

## 9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
24.7.21/1 day	Campus cleaning and awareness program among Farmer
15.8.21/ 1day	Campus cleaning and awareness programm with school studen
22.8.21/1 day	Village road cleaning and debete competition among F/FW
21.9.21/1 day	Cleaning of Farm road
19.10.21/1 day	Village road cleaning and awareness programm
17.11.21/1 day	Campus cleaning and village campus cleaning
26.12.21/1 day	Villages road cleaning and awareness programm

## b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office		
2. Basic maintenance		
3. Sanitation and SBM		
4. Cleaning and beautification of surrounding areas		
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	1000	15,000
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>1000</b>	<b>15,000</b>

## 9.6. Observation of National Science day-NA

Date of Observation	Activities undertaken

## 9.7. Programme with SeemaSurakshaBal/ BSF-NA

Title of Programme	Date	No. of participants

## 9.8. Agriculture Knowledge in rural school-NA

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 Swachhta Hi Surakshaprogramme(16-31.12.2021) organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Awareness program among student, Institute cleaning, Awareness program among Farmer and Farm women, Debate, competition, Quize	12	350	-	-

## 9.10. Details of MahilaKisan Divas programme(15.10.2021) organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Mahila Kisan Diwas on	04	50	-	-

	dt.15.10.2021				
2	National Girl child day Dt.24.01.2022	04	20	-	-

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise

## 9.12. Revenue generation

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

## 9.13. Resource Generation:

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

## 9.14. Performance of Automatic Weather Station in KVK: NA

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

## 9.15. Contingent crop planning: NA

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK

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

a) Year:

b) Introduction / General Information:

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

## 11. Celebration of World Food Day in 2021

Sl. No.	Activities undertaken	No. of VIPs attended	No. of participants		
			M	F	T
1	Quize,Debete	-	10	20	30

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

## Natural Resource Management

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

## Crop Management

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

## Livestock and fisheries

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

## Institutional interventions

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

## Capacity building



## 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					
2					

## 18. a) Information on ASCI Skill Development Training Programme, if undertaken during 2021-Not conducted

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

## b) Information on Skill Development Training Programme (Other than ASCI or less than 200 hrs., if any) if undertaken during 2021-Not conducted

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

## 19. Information on NARI Project(if applicable)-NA

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

## 20. Specific programmes for the period-NA

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

Sl. No.	Activity	No. of SC farmers/ stakeholders		
		Male	Female	Total
1	On- farm trials			
2	Frontline demonstrations			
3	No. of Training programmes for farmers			



4	Farmers trained			
5	No. of Training programmes for Extension Personnel			
6	Extension Personnel trained			
7	Participants in extension activities			
8	Distribution of seed			
9	Planting material distributed			
10	Livestock strains and fingerlings distributed			
11	Soil, water, plant, manures samples tested			
12	Mobile agro-advisory provided to farmers			
13	Other (Please specify)			

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

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

**iii. Status of Natural Farming**

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

**iv. Farmer Producer Organizations**

**a) General information**

Sl. No.	Name & Address of FPO	Name &Contact No. of Head of FPO	No. of farmer members of FPO			Crop/ Enterprise dealt with by FPO	Kind of support provided by KVK in running/ starting of FPO (in brief)
			M	F	T		

**b) Financial information**

Name &	Date of Registratio	FPO Registere	Applicatio n	No. of share-	Equity Amount	Bank Accoun	Board Reconstitute
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Address of FPO	n	d (Y/N)	Submitted for Registration (Y/N)	holding farmer members	Collected (Rs.)	t Opened (Y/N)	d after attaining minimum membership (Y/N)

v. Nutri-gardens (Village wise)-NA

Sl. No.	Name of village	Name of crop	Area under the crop (acre)	No. of farmers			Whether bio-fortified variety of crop used (If yes, mention variety & crop)
				M	F	T	

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

Name of KVK	Total budget allotted (Rs.)	Total budget utilized (Rs.)	Physical Training organized			Online Training organized				
			No. of training	No. of total participants		No. of training	No. of total participants			
				M	F	T		M	F	T

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

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

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



**OFT on in-situ soil moisture conservation in tomato raddish sequence**



**OFT on Oyester Mushroom cultivation**



**OFT on INM in Cauliflower**



**OFT on Protray nursery**



**OFT on different sweetcorn varities**



**FLD on artificial brooding management in chicks**



**INM in Garden pea**

**Demonstration on single row vegetable transplanter**



**IWM in groundnut**

**Mushroom Spawn production**



**Training for In-service personnel**

**Training for Farmers and farm women**



**Observation of Swacchata Abhiyan**

**Farmers-scientist connect meet cum kisan mela**



**Training for farm womens**



**FLD on INM in sunflower**



**Observation on Parthenium awareness week**



**Distribution of Poultry birds under Bio-tech KISAN**



**Celebration of Poshan Mah and tree Plantation campaign**



**Demonstration on Green Peas Variety Sabji Matar -14**

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