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	
KVK,Nabarangpur P.O-Badakumari,Umerkote Dist.-Nabarangpur,Odisha Pin-764073	06866270530	06866270530	nabarangapurkvk@yahoo.co.in kvknabarangapur.ouat@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology,Bhubaneswar-751003,Odisha	0674-2397970 /2397818	0674-2397970/2397818	registrarouat@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.G C Sahoo	OUAT Colony Qtr No.D1	9178993612 9337412928	kvknabarangapur.ouat@gmail.com

1.4. Year of sanction of KVK: 2004

1.5. Staff Position (**as on 1st January, 2021**)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/ Temporary	Category (SC/ST/ OBC/ Others)
1	Senior Scientist& Head (I/C)	Dr.G.C.Sahoo	Scientist(Soil.Sc.)	Soil Science	Rs 57700- Rs 182400 Present basic Rs 87200	05.05.2006	**Temporary**	OBC
2	Subject Matter Specialist							
3	Subject Matter Specialist	Dr.Paritosh Murmu	Scientist	Agronomy	Rs 15600- -39100 Present basic Rs 19810+ GP Rs 6000	01.01.2016	**Temporary**	ST
4	Subject Matter Specialist	Sh . Rudra P Mohalik	Subject Matter Specialist	Nematlogy	Rs 56100- Rs 177500 Present basic Rs 61300/-	20.06.2018	**Temporary**	SC
5	Subject Matter Specialist	----	----	----	---	---	**Temporary**	---
6	Subject Matter Specialist	----	---	---	---	---	**Temporary**	---
7	Subject Matter Specialist	---	---	---	---	---	**Temporary**	---
8	Programme Assistant	Mirs. Shubhasri Sahoo	Prgramme Assistant	Home Science	Rs 35400- 1,12,400 Present basic Rs 55200/-	09.10.2006	**Temporary**	GEN
9	Computer Programmer	---	---	---	----	----	**Temporary**	---
10	Farm Manager	Miss Binapani Taria	Farm Manager	Horticulture	Rs 35400- 1,12,400 Present basic Rs 43600/-	06.02.2015	**Temporary**	SC
11	Accountant / Superintendent	---	----	-----	----	---	**Temporary**	---
12	Stenographer	Sh . Ratiranjan Behera	Jr. Steno cum computer Operator	Stenography	Rs25500-81100 Present basic Rs 27100/-	18.03.2019	**Temporary**	SEBC
13.	Driver	Shri Janmejaya Sahoo	Driver-cum-Mechanic	-	Rs 19900- 63200 Present basic Rs 26800/-	25.07.2008	**Temporary**	GEN

14.	Driver	Shri Rajanikanta Pattaniak	Driver-cum-Mechanic	-	Rs 19900- 63200 Present basic Rs 26800/-	28.07.2008	**Temporary**	GEN
15.	Supporting staff	Mr.Bharata Jena	Peon- Cum - Watchman	--	Rs 16600-52400 Present basic Rs 22900/-	02.08.2008	**Temporary**	GEN
16.	Supporting staff	--	---	--	--	--	--	--

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	2.5
2.	Under Demonstration Units	1.0
3.	Under Crops	9.5
4.	Orchard/Agro-forestry	6.5
5.	Others with details(Roads)	0.5
	Total	20

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building		1		Completed up to roof leve				ICAR
2.	Farmers Hostel								
3.	Staff Quarters (6)							Under use	
4.	Piggery unit								
5	Fencing								
6	Rain Water harvesting structure								
7	Threshing floor	Exists						Under use	
8	Farm godown	Exists						Under use	
9.	Dairy unit								

10.	Poultry unit								
11.	Goatary unit								
12.	Mushroom Lab	Exists						Under use	
13.	Mushroom production unit	Exists						Under use	
14.	Shade house	Exists						Under use	
15.	Soil test Lab	Exists						Under use	
16	Others,Please Specify (Poly House)							Under use	

* If not in use then since when and reason for non-use

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Bolero	29.06.2012	650000	122212	Running condition
Motor Bike	2012	55000	9500	Running condition

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Mridaparikshyak	2017	86800	Working	ICAR
b. Farm machinery				
	2001	Rs.3,42,068/-	Running condition	ICAR
	2012	Rs.59,000/-	Damaged condition	ICAR
c. AV Aids				

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund

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.	21.012021	30	**Emphasis should be given on Seed multiplication of BPH tolerant rice var. Hasant**	▪ **10 nos. of farmers have been provided with Hasanta for seed multiplication purpose under TSP programme at vill-Chikalpadar in an area of 1.5 ha during Kharif, 2021.** ▪ **In consultation with OIC, RRTTSS,**	

				Umerkote in 3 ha of land Hasanta seed (F) have been cultivated in the KVK farm. ▪ **7 nos. of training –cum-awareness programmes have been conducted on BPH management at vill-Nayakguda, Chikalpadar, Managuda, Dangriguda, Junapani, Bhamini and Chingudiguda with 175 participants.**	
			Activities should be taken up on trainings and demonstrations on resource conservation technologies in agriculture with emphasis on soil and water and climate resilient agricultural practices	▪ **OFT conducted on Assessment of Thiourea and Salicylic Acid against water stress in Maize (Thiourea @ 1000 mg /lit of water, Salicylic acid @ 100 mg /lit of water , Pusa Hydrogel @ 2.5 Kg/ha + Foliar application of thiourea 1000 mg/lit at 45 DAS) at vill-Nayakguda in an area of 1.0 ha with 7 farmers during kharif, 2021.** ▪ **Climate resilient variety Groundnut (Dharani 10.0 ha, avg. yield 20.5 q/ha) and Chickpea (NBeG 47 20.0 ha, avg. yield 9 q/ha) demonstrated.** ▪ **Conducted awareness programme on Jala Shakti Abhiyan and**	

				Tree plantation programme in colaboration with IFFCO.	
			Trial on yield performance of desi var. of finger millet and Arjun var.	▪ **Demonstration conducted on ragi var. Arjun and local var. Kala mandia under TSP programme at vill-Nayakguda and Managuda during Kharif, 2021 covering an area 1.0 ha with 10 farmers (Arjun avg. yield-14 q/ha, Kala mandia-avg.yld-7.5q/ha).** ▪ **Arjun variety was recomemded for the district and was taken up in the MILLET MISSION Programme in the district.** ▪ **6 nos. of visit in 6 blocks done along with line deptt. officials to Millet Mission programme.** ▪ **6 nos. of training programmes conducted on Scientific millet cultivation and its value addition covering 150 trainees in 6 blocks(Umerkote, Jharigaon, Nabarangpur, Tentulikhunti, Nandahandi and Dabugaon)**	

			Installation of poultry hatchery, rearing unit in KVK campus and popularization of Kadaknath breed of birds	▪ **Installation of poultry hatchery has not been done, will be taken up this year** ▪ **500 nos. of Kadaknath chicks & 500 nos. of Banaraja Chicks distributed to 30 farmers in 10 nos. of TSP villages (Umerkote ,Jharigaon , Raighar, Dabugaon Blocks).** ▪ **20 nos. of Kadaknath and 15 nos. Banaraja Chicks, 10 Aseel present in KVK Demo Unit.**	
			Popularization of Honey bee rearing	▪ **9 nos. of training on scientific honeybee cultivation conducted (175 nos. farmers)** ▪ **21 nos. of exposure visits (including school children and line deptt. exposure visit from district Nabarangpur,Koraput and Kalahandi) have been carried out with 711 participants.** ▪ **17 nos. of Honeybee box have been installed in the KVK demo unit.** ▪ **This year by March, 2022 a total of 50 nos. of honeybee box will be supplied to 50 nos. of trained farmers**	
			Emphsize to be given on conducting training programmes for farmers and	▪ 8 nos. of training have been conducted in	

			rural youth on Vermitechnology, bee keeping and IFS.	colaboration with NABARAD at Dangriguda and Banuaguda village of Dabugaon block on NABARAD sponsored training on vermicomposting and honeybee rearing (240 nos. farmers). ▪ 7 nos. of training on IFS, 6nos. on Vermitechnology and 5 nos. on honey bee keeping (450 nos. participants) ▪ 20 nos. of vermibed have been provided to 20 nos. of farmers in 10 TSP villages along with vermibed (2no.) each, Papaya seedling, Drumstick seedling, Banana sucker, other vegetable seedlings, Kadaknath chicks(10 nos.) Banaraja(10 nos.) as the component of IFS.	
			Emphasis on Joint field visit and inter departmental coordination	▪ **Regular RE linkage meeting is being organized on monthly basis.** ▪ **37 joint field visits have been conducted in Agriculture, Horticulture, fishery and watershed areas to monitor different programme and give guidance to the farming**	

				community. ▪ KVK has participated in more than 50 numbers of Soil health awareness training programmes organized by the Agriculture department. ▪ All Special days and Field days are being celebrated with due participation and cooperation of all line department.	
			More number of activities with FPOs and technical support	▪ KVK has given technological back stopping to the FPOs through supply of POP (Booklet on package and practices of scientific method of maize and Rice cultivation in Eastern Ghat High Land Zone) ▪ 5 numbers training programme in vermicomposting, Mushroom, value addition to Ragi and Maize, plant protection and quality planting material production have been conducted for FPO members for (Pendrani Krushak Producer Company Limited) Umerkote block and (Mauli Maa Maize MANDI Producer Company	

				Limited) Raighar Block .	
			Emphasis may be given on off season vegetable cultivation	▪ **FLD conducted on Demonstration of off-season vegetable cultivation of triple resistant tomato variety Arka Rakshak covering 1.0 ha area (10 nos. of beneficiaries)** ▪ **Demonstration of Kharif onion variety Line 883 have been conducted covering 1.0 ha area (10 nos. of beneficiaries)** ▪ **5 numbers of training on off season vegetable cultivation have been conducted (125 no. participants)** ▪ **100 nos. of vegetable seed minikit have been distributed to 100 nos. of farmers on tree plantation programme in colaboration with IFFCO.**	
			Value addition in Maize, Ragi and demonstration on mushroom cultivation	▪ **FLD on Demonstration on value addition of maize (pop corn) have been conducted with 10 no. of beneficiaries.** ▪ **5 numbers of training on value addition in maize and ragi have been conducted** ▪ **10 no. of demonstration have been conducted on high yielding variety of**	

				Oyster mushroom ,(H.ulmarius) (100 nos. of beneficiaries) under TSP National network Project. ▪ **12 number of training on mushroom cultivation have been carried out covering 300 beneficiaries** ▪ **1200 nos. of oyster mushroom spawn have been distributed among 60 beneficiaries.**	
			Demonstration may be carried out on new molecule pesticides for BLB management in paddy.	❑ **An OFT has been conducted on Assessment of Management of BLB in rice in 1.0 ha area at vill-Nayakguda & Chikalpadar having 7 replications.** ❑ **Training on Demonstration of New Molecule pesticides have been conducted for management of BLB in Paddy covering 100 nos. of trainees for 4 days .** ❑ **2 no. of Field day has been conducted on BLB management at village-Nayakguda covering 100 nos. of trainees.**	
			Demonstration on FAW control by bio-agent, popularization of good variety of Bengal gram and groundnut	➢ **An FLD has been conducted on Demonstration on Management of Fall Army Worm in Maize**	

				(Apply 5% active ingredient of Azadiractin, release 20,000 *Trichograma chilonis* parasite 4-5 days in a week interval) ➢ **CFLD on Chickcpea (var . NBeG- 47) have bben demonstrated in an. Covering 50 no of participants . area of 20 ha in Villages Dangriguda and Majhiguda of Dabugaon Block** ➢ **1 no. of field day and 1 no. of training on Pakage of praticies on Bengal gram have been done in Village-Dangriguda having 25 nos. of participants.** ➢ **CFLD on Groundnut (Dharni) have been demonstrated in Kharif,2021 in village-Baburia in Chandahandi Block in an area of 10 ha covering 25 nos.of Beneficiary .** ➢ **1 no. of field day and 1 no. of training on Pakage of praticies on groundnut have been done in Village Baburia having 50 nos. of participants** ➢ **CFLD on Groundnut (Dharni) demonstration is going on Rabi 2021-**	

				222 in village- Salebidi in Chandahandi Block in an area of 10 ha covering 25 nos. of Beneficiary .	

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

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

Sl. no.	Item	Information
1	Major Farming system/enterprise	Rice-Maize-Redgram
2	Agro-climatic Zone	Eastern Ghat High Land
3	Agro ecological situation	Eastern Ghat High Land zone of Odisha
4	Soil type	Red and lateritic soil
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Rice- 1790 kgs/ha,Maize-3318 kgs/ha,Ragi-822 kgs/ha,Red gram-858 kgs/ha,Groundnut-1100 kgs/ha
6	Mean yearly temperature, rainfall, humidity of the district	Mean annual temperature-24.8˚C Mean annual rainfall-1569mm,Mean annual humidity-58%
7	Production of major livestock products like milk, egg, meat etc.	Milk

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		Umerkote	Chikalpador	➢ Groundnut ➢ Rice ➢ Vegetables ➢ Mushroom	➢ **Low yield due to High weed infestation in transplanted rice in medium land** ➢ **Imbalanced dose of fertiliser and sulphur deficiency causes delayed maturity and reduced yield in rabi rice**	➢ **Assessment of herbicide for weed management in transplanted rice** ➢ **Assessment of Thiourea and Salicylic Acid against water stress in Maize** ➢ Crop diversification with pulses ➢ management ➢ Nutritional food security ➢ ➢ Backyard poultry rearing ➢ Mushroom cultivation
2		Jharigaon	Monguda	➢ Maize ➢ Rice ➢ Tomato ➢ vegetables	➢ **Mid season drought** ➢ **Causes reduced yield in kharif rice .** ➢ Indiscriminate use of nitrogen fertilizer ➢ Malnutrition	➢ Prcessing and value addition ➢ Crop diversification with pulses ➢ Nutritional food security ➢ Backyard poultry rearing ➢ Integrated pest management ➢ Mushroom cultivation
3		Umerkote	Nayakguda	Rice Blackgram Sugarcane Vegetables	➢ **Low yield of rice due to severe stem borer infestation** ➢ Malnutrition ➢ **Yield loss due to False Smut incidence in paddy** ➢ **Low yield of direct seeded rice due to scarcity of water and disease pest attack**	➢ Crop diversification with pulses ➢ Integrated nutrient management ➢ Backyard poultry rearing ➢ Mushrom cultivation ➢ Nutritional food security

4		Umerkote	Bhamini	➢ Maize ➢ Rice ➢ Vegetables	➢ **Distressed availability of fertiliser during the cropping season , Imbalanced dose of fertiliser resulting lower yield in kharif maize** ➢ Indiscriminate use of chemical fertilizer ➢ Malnutrition **Low yield due to High weed infestation in maize in medium land**	➢ Mushroom cultivation ➢ Integrated pest management ➢ Processing and value addition ➢ Backyard poultry rearing ➢ Nutritional food security
5		Dabugaon	Junapani	➢ Maiz ➢ Rice ➢ Vegetables	➢ **Low yield in maize due to severe Fall Army Worm attack** ➢ Malnutrition ➢ **Low net income from hybrid Maize due to poor market demand** ➢ **Low yield of Ragi** **No value addition** **Low yield of Black gram**	➢ Processing and Value addition ➢ Integrated nutrient management ➢ Integrated pest management ➢ Nutritional food security ➢ Backyard poultry rearing ➢ Mushroom cultivation

2. c. Details of village adoption programme:

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

Name of village	Block	Activities taken up for development	
Monoguda	Jharigan	➢ **Assessment of Thiourea and Salicylic Acid against water stress in Maize** ➢ **Assessment of herbicide for weed management in transplanted rice** ➢ **Demonstration on weed management in rice** ➢ **Demonstration on improved method of Straw mushroom cultivation** ➢ **Demonstration on value addition of Ragi** ➢ **Trainings on INM, IPM, IWM ,Mushroom cultivation ,**	

		Floriculture, value addition in maize , vegetable cultivation , Organic farming.	
Chikalpador	Umerkote	➢ **Demonstration on NPK consortia with lime in ONION** ➢ **Assessment of herbicide for better weed management in Maize** ➢ **Demonstration on foliar application of nutrients in Black gram** ➢ **Assessment of Nano Nitrogen in Rice** ➢ **Demonstration on Foliar application of Potassium in Rice** ➢ **Demonstration on improved method of Oyster mushroom cultivation** ➢ **Demonstration on Sulphur application in Rice** ➢ **Assessment of Thiourea and Salicylic Acid against water stress in Maize** ➢ **Trainings on INM, IPM, IWM ,Mushroom cultivation , Floriculture, value addition in maize , vegetable cultivation , Organic farming.**	➢

Junapani	Dabugaon	➢ **Assessment of sweet corn varieties for higher profitability** ➢ **Demonstration of rice varieties for direct seeded crop in non-puddled soil** ➢ **Trainings on INM, IPM, IWM ,Mushroom cultivation , Floriculture, value addition in maize , vegetable cultivation , Organic farming.**	
Bhamini	Umerkote	➢ **Demonstration on weed management in Maize** ➢ **Demonstration on rice variety CR Dhan 202 for direct seeded crop in non-puddled soil** ➢ **Demonstration on weed management in Black gram** ➢ **Demonstration on Application of NPK consortia in Maize** ➢ **Demonstration on IDM in BLB in Rice** ➢ **Demonstration on Management of Fall Army Worm in Maize**	

		➢ **Trainings on INM, IPM, IWM ,Mushroom cultivation , Floriculture, value addition in maize , vegetable cultivation , Organic farming.**	
Nayakguda	Umerkote	➢ **Demonstration of off-season cultivation of triple resistant tomato variety Arka Rakshak** ➢ **Demonstration of Kharif onion variety Line 883** ➢ **Assessment Of Management Of False Smut In Rice** ➢ **Demonstration on Management of Stem Borer in Rice** ➢ **Demonstration on Management of Bacterial Wilt in Tomato** ➢ **Trainings on INM, IPM, IWM ,Mushroom cultivation , Floriculture, value addition in maize , vegetable cultivation , Organic farming.** ➢	

2.1 Priority thrust areas

S. No	Thrust area

1.	**Dry land Farming**
2.	**Soil health & fertility management**
3.	**Soil and water conservation**
4.	**Crop substitution & cropping system**
5.	**Weed management**
6.	**Low cost production technique**
7.	**Pest & disease management**
8.	**Poultry and Mushroom**
9.	**Processing and value addition**
10.	**Fruit & Vegetable Cultivation**
11.	**Backyard poultry rearing**
12.	**Marketing awareness**

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
6	6	42	7	-	30	-	5	-	-	-	42	16	16	160	12	-	120	---	8	-	140	20	160

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
87	87	1945	486	97	1168	194	--	--	1654	291	1945	12	12	120	10	--	10	--	100	--	120	--	120

Impact of capacity building											Impact of Extension activities										
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								
Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T
87	87	486	97	1168	194	--	--	1654	291	1945	12	12	10	--	10	--	100	--	120	--	120

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
50	49	50000	50000

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
---	---	500	500

* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication

Research paper							
Seminar/conference/ symposia papers							
Books							
Bulletins	2	2000	-	-	-	-	-
News letter	1	500	-	-	-	-	-
Popular Articles							
Book Chapter							
Extension Pamphlets/ literature	10	5000	-	-	-	-	-
Technical reports	2	12	-	-	-	-	-
Electronic Publication (CD/DVD etc)							
TOTAL	15	7512	-	-	-	-	-

1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On Farm Trial	**Assessment of herbicide for weed management in transplanted rice**
2.	Problem diagnosed	**Heavy weed infestation**
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**FP-Pyrazosulfuron ethyl 10% WP (Sathi) @300 g/ha as PE followed by one hand weeding at 30 DAT** **TO_1 -Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Almix @ 4 g a.i/ ha at 20 DAT** **TO_2 -Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Ethoxysulfuron @ 15 g a.i/ ha at 20 DAT**
4.	Source of Technology (ICAR/	**AICRP on Weed Management, OUAT, SLREC Proceedings 2013**

	AICRP/SAU/other, please specify)	
5.	Production system and thematic area	**Rainfed Medium-land** , Weed management
6.	Performance of the Technology with performance indicators	**TO_1 -Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Almix @ 4 g a.i/ ha at 20 DAT** **TO_2 -Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Ethoxysulfuron @ 15 g a.i/ ha at 20 DAT**
7.	Final recommendation for micro level situation	**Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Ethoxysulfuron @ 15 g a.i/ ha at 20 DAT (TO_2) reduces the weed biomass and increases WCE than FP.**
8.	Constraints identified and feedback for research	No such constraints faced
9.	Process of farmers participation and their reaction	Farmers Scientist interaction

Thematic area: Weed management

Problem definition: **Low yield of maize due to heavy weed infestation**

Technology assessed:

FP-Pyrazosulfuron ethyl 10% WP (Sathi) @300 g/ha as PE followed by one hand weeding at 30 DAT

TO_1 -Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Almix @ 4 g a.i/ ha at 20 DAT

TO_2 -Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Ethoxysulfuron @ 15 g a.i/ ha at 20 DAT

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
		Weed control efficiency(%)	Weed biomass (g/m^{-2})							
FP-Pyrazosulfuron ethyl 10% WP (Sathi) @300 g/ha as PE followed by one hand weeding at 30 DAT	7	69.89 %	46.45 g			32.25	25000	59660	34660	2.37
TO_1 -Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Almix @ 4 g a.i/ ha at 20 DAT	7	87.24%	26.85 g			36.85	27000	68170	41170	2.53
TO_2 -Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Ethoxysulfuron @ 15 g a.i/ ha at 20 DAT	7	89.76%	23.59g			37.95 CD (P-0.05) 3.896	27000	70200	43200	2.60

OFT-2

1.	Title of On farm Trial	**Assessment of Thiourea and Salicylic Acid against water stress in Maize**
2.	Problem diagnosed	**Water stress**
3.	Details of technologies selected for assessment/refinement	**FP-No application of Thiourea /Salicilic Acid** **TO_1 -Foliar spraying of Thiourea @ 1000 mg /lit of water at 45 DAS** **TO_2 -Foliar spraying of Salicylic acid @ 100 mg /lit of water at 40 DAS and 60 DAS** **TO_3 -Basal application of Pusa Hydrogel @ 2.5 Kg/ha + Foliar application of thiourea 1000 mg/lit at 45 DAS**
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**PAU , Ludhiana ,2020** **IARI 2011**

5.	Production system and thematic area	**Rainfed Medium-land** ,
6.	Performance of the Technology with performance indicators	**TO_1 -Foliar spraying of Thiourea @ 1000 mg /lit of water at 45 DAS** **TO_2 -Foliar spraying of Salicylic acid @ 100 mg /lit of water at 40 DAS and 60 DAS** **TO_3 -Basal application of Pusa Hydrogel @ 2.5 Kg/ha + Foliar application of thiourea 1000 mg/lit at 45 DAS**
7.	Final recommendation for micro level situation	Farmers are advised to adapt the **Basal application of Pusa Hydrogel @ 2.5 Kg/ha + Foliar application of thiourea 1000 mg/lit at 45 DAS**
8.	Constraints identified and feedback for research	No such constraints faced
9.	Process of farmers participation and their reaction	Farmers Scientist interaction

Thematic area: Resource conservation

Problem definition: Water stress

Technology assessed:

FP-No application of Thiourea /Salicilic Aci
TO_1 - Foliar spraying of Thiourea @ 1000 mg /lit of water at 45 DAS
TO_2 -Foliar spraying of Salicylic acid @ 100 mg /lit of water at 40 DAS and 60 DAS

TO_3 - Basal application of Pusa Hydrogel @ 2.5 Kg/ha + Foliar application of thiourea 1000 mg/lit at 45 DAS

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Plant he. (cm)	Cob girth(cm)	100-grain wt.(g)						
FP-No application of Thiourea /Salicilic Acid	7	117.75	15.8	24.75g		46.25	30000	64750	34750	1.85
TO_1 -Foliar spraying of Thiourea @ 1000 mg /lit of water at 45 DAS	7	136.65	15.95	25.3g		52.75	30000	73850	43850	2.11
TO_2 -Foliar spraying of Salicylic acid @ 100 mg /lit of water at 40 DAS and 60 DAS	7	135.25	15.90	25.35g		53.15	30000	74410	44410	2.13
TO_3 -Basal application of Pusa Hydrogel @ 2.5 Kg/ha + Foliar application of thiourea 1000 mg/lit at 45 DAS	7	152.90	16.50	25.7g		55.45	30000	77630	47630	2.22

OFT-3

1.	Title of On farm Trial	**Assessment of Management of BLB in rice**
2.	Problem diagnosed	**Low yield due to incidence BLB**
3.	Details of technologies selected for assessment/refinement	**FP-Farmers are spraying Streptocycline @0.6%** **TO_1 -Seed treatment with bleaching powder @ 100g/ kg seed + Zinc sulfate @ 2%, spraying of Streptocycline @ 300 ppm + COC**

		@ 0.3% at the initiation of the disease **TO_2 -Seed treatment with *Pseudomonas fluorescens* @10g/kg of seed, spraying of Streptocycline @ 300 ppm + COC @ 0.3% at the initiation of the disease**
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**Expert System in paddy, TNAU** **Annual report, OUAT, 2009-10**
5.	Production system and thematic area	**Rainfed Medium-land** , IDM
6.	Performance of the Technology with performance indicators	**FP-Farmers are spraying Streptocycline @0.6%** **TO_1 -Seed treatment with bleaching powder @ 100g/ kg seed + Zinc sulfate @ 2%, spraying of Streptocycline @ 300 ppm + COC @ 0.3% at the initiation of the disease** **TO_2 -Seed treatment with *Pseudomonas fluorescens* @10g/kg of seed, spraying of Streptocycline @ 300 ppm + COC @ 0.3% at the initiation of the disease**
7.	Final recommendation for micro level situation	**-Seed treatment with *Pseudomonas fluorescens* @10g/kg of seed, spraying of Streptocycline @ 300 ppm + COC @ 0.3% at the initiation of the disease decrease incidence oF BLB compared to Farmers Practices.**
8.	Constraints identified and feedback for research	No such constraints faced
9.	Process of farmers participation and their reaction	Farmers Scientist interaction

Thematic area: Weed management

Problem definition:IDM

Technology assessed:

FP-Farmers are spraying Streptocycline @0.6%

TO_1 -Seed treatment with bleaching powder @ 100g/ kg seed + Zinc sulfate @ 2%, spraying of Streptocycline @ 300 ppm + COC @ 0.3% at the initiation of the disease

TO_2 -Seed treatment with *Pseudomonas fluorescens* @10g/kg of seed, spraying of Streptocycline @ 300 ppm + COC @ 0.3% at the initiation of the disease

Technology option	No. of trials	Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	22.5%	41.8	40900	63745	22845	1.50
TO1	7	10.4%	51.63	42967	78787	35820	1.83
TO2	7	7.5%	52.09	43010	79489	36479	1.85

OFT-4

1.	Title of On farm Trial	**Assessment of Management of Sheath Rot in Rice**
2.	Problem diagnosed	**Low yield due to severe sheath rot**
3.	Details of technologies selected for assessment/refinement	**FP-Farmers are applying Carbendazim50%WP @1.5 gm/lit of water** **TO_1 -Seed treatment with *Pseudomonas fluorescens* @ 10 g/kg seed, 1st foliar spray of Hexaconazole @ 0.1% at 1st appearance of the disease** **TO_2 -Seed treatment with *Pseudomonas fluorescens* @ 10 g/kg seed , 2 foliar sprayings with Trifloxystrobin 25% + Tebuconazole 50% @ 0.2% at 15 days interval starting at 1st appearance of the disease**
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**Expert System in paddy, TNAU portal** **Annual report, OUAT, 2016**
5.	Production system and thematic area	**Rainfed Medium-land** , IDM
6.	Performance of the Technology with performance indicators	**FP--Farmers are applying Carbendazim50%WP @1.5 gm/lit of water** **TO_1 -Seed treatment with *Pseudomonas fluorescens* @ 10 g/kg seed, 1st foliar spray of Hexaconazole @ 0.1% at 1st appearance of the disease** **TO_2 -Seed treatment with *Pseudomonas fluorescens* @ 10 g/kg seed , 2 foliar sprayings with Trifloxystrobin 25% + Tebuconazole 50% @ 0.2% at 15 days interval starting at 1st appearance of the disease**

7.	Final recommendation for micro level situation	**-Seed treatment with *Pseudomonas fluorescens* @ 10 g/kg seed , 2 foliar sprayings with Trifloxystrobin 25% + Tebuconazole 50% @ 0.2% at 15 days interval starting at 1st appearance of the disease decrease incidence of Sheath rot compared to Farmers Practices.**
8.	Constraints identified and feedback for research	No such constraints faced
9.	Process of farmers participation and their reaction	Farmers Scientist interaction

Thematic area: Weed management

Problem definition:IDM

Technology assessed:

FP-Farmers are applying Carbendazim50%WP @1.5 gm/lit of water
TO_1 -Seed treatment with *Pseudomonas fluorescens* @ 10 g/kg seed, 1st foliar spray of Hexaconazole @ 0.1% at 1st appearance of the disease
TO_2 -Seed treatment with *Pseudomonas fluorescens* @ 10 g/kg seed , 2 foliar sprayings with Trifloxystrobin 25% + Tebuconazole 50% @ 0.2% at 15 days interval starting at 1st appearance of the disease

Technology option	No. of trials	Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	41	**29.75**	25500	39825	14825	1.59
TO1	7	20	39.20	39000	68600	29600	1.76
TO2	7	15	45.00	41000	78750	37750	1.92

OFT-5

1.	Title of On farm Trial	**Assessment of sweet corn varieties for higher profitability**
2.	Problem diagnosed	**Comperatively low yield of green cob in Tang 75**
3.	Details of technologies selected for assessment/refinement	**FP-Tang 75 (Syngenta variety)** **TO_1 -variety- VL Sweet corn 1(FSCH18)** **TO_2 -Pusa super sweet cron 1**
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**VPKAS,Almora,2016** **ICAR-IARI , 2018-19**
5.	Production system and thematic area	**Rainfed Medium-land**
6.	Performance of the Technology with performance indicators	**TO1 : VL Sweet corn 1(FSCH18) tolearnt to Turcicum leaf blight with enhanced sweetness with cob yield (10.8 t/ha)** **T O2 :**It is a **shrunken2-based sweet corn hybrid** with an average brix value of **15.9%**. Its average green cob yield is **13.0 t/ha**. The average dehusked cob yield is **9.3 t/ha** with a potential of 10.2 t/ha. It provides 16.2 t/ha of green fodder as well. **It matures in average of 78 days.**
7.	Final recommendation for micro level situation	**VL Sweet corn 1(FSCH18) may recommended**
8.	Constraints identified and feedback for research	No such constraints faced
9.	Process of farmers participation and their reaction	Farmers Scientist interaction

Thematic area: Crop Production

Problem definition: **Comperatively low yield of green cob in Tang 75**

Technology assessed:

FP-Tang 75 (Syngenta variety)
TO_1 -variety- VL Sweet corn 1(FSCH18)
TO_2 -Pusa super sweet cron 1

Result	Green Cob Yield (q/ha)	Plant Height (cm)	Maturity days	Cob weight (g)	Net Income (Rs./ha)	BC Ratio
FP	**79.8**	**213.36**	**81**	**178.2**	**58216**	**2.5**
TO-1	**119.6**	**274.32**	**74**	**182.6**	**105976**	**3.8**
TO-2	**88.1**	**243.84**	**78**	**189.2**	**68056**	**2.8**

OFT-6

1.	Title of On farm Trial	**Assessment of Nano Nitrogen in Rice**
2.	Problem diagnosed	**Usuaaly there is 2/3rd Loss of applied UreaN from any rice culture.**
3.	Details of technologies selected for assessment/refinement	**FP: 100 % N (STBFA) soil application(25 % basal + 50 % at tillering + 25 % at PI)** **TO1 75 % N (STBFA) soil application(25 % basal + 50 % at tillering + 25 % at PI) + Foliar spray @ 1250 ml Nano Nitrogen /ha at tillering and PI)** **TO2: 50 % N (STBFA) soil application (25 % basal+ 50 % at tillering + 25 % at PI) + Foliar spray @ 1250 ml NanoNitrogen /ha at tillering and PI)**

4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**OUAT ,2019-20**
5.	Production system and thematic area	**Rainfed Medium-land**
6.	Performance of the Technology with performance indicators	**Nano Nitrogen saves urea loss upto 50 % in rice culture .It also helps in minimising green house effect by reducing volatilation loss of Urea N from rice field.**
7.	Final recommendation for micro level situation	**75 % N (STBFA) soil application(25 % basal + 50 % at tillering + 25 % at PI) + Foliar spray @ 1250 ml Nano Nitrogen /ha at tillering and PI)**
8.	Constraints identified and feedback for research	No such constraints faced
9.	Process of farmers participation and their reaction	Farmers Scientist interaction

Thematic area: Crop Production

Problem definition: **Usuaaly there is 2/3rd Loss of applied UreaN from any rice culture.**
Technology assessed:
FP: 100 % N (STBFA) soil application(25 % basal + 50 % at tillering + 25 % at PI)
TO1 75 % N (STBFA) soil application(25 % basal + 50 % at tillering + 25 % at PI) + Foliar spray @ 1250 ml Nano Nitrogen /ha at tillering and PI)

TO2: 50 % N (STBFA) soil application (25 % basal+ 50 % at tillering + 25 % at PI) + Foliar spray @ 1250 ml NanoNitrogen /ha at tillering and PI)

Result	Yield (q/ha)	% change in Yield	Plant height.(cm)	No. of effecti tillers/hill	Net Income (Rs./ha)	BC Ratio
FP	36.5	**---**	**109**	**11.25**	**37525**	**1.92**
TO-1	42.3	**15.89**	**122**	**13.05**	**48255**	**2.23**
TO-2	**41.85 CD (P-0.05) 3.110**	**14.66**	116	12.65	47422	2.21

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			
	Maize	Weed Management	**Pre-emergence application of Atrazine @ 1.5 kg a.i/ha + Tembotrione (Laudis) 120g a.i/ha at 25 DAS**	1	1	M	F	M	F	M	F	M	F	T	
1.	Rice	Varietal substitution	**CR Dhan 202 duration 115 days, yield potential 45q/ha with resistant to brown spot, sheath rot, stem borer, and leaf folder**	1	1	ST(M)-10						ST(M) -10			
2.	Blackgram	Weed Management	**Pre-emergence application of pendimethalin @ 1.0 kg**	1	1	ST(M)-10						ST(M) -10			

			a.i./ha at 3 DAS kills wide range of grasses and certain broadleaf weeds.						
3.	Rice	IPM	Seed treatment with brine solution followed by 1 spray of Hexaconazole @0.1% during tillering stage and 1 spray of Pyraclostrobin @0.15% during PI stage.	1	1	ST(M)-10		ST(M) -10	
4.	Rice	IPM	Skip row planting (after 3 m), installation of spider trap @ 25/ ha. Need based alternate spraying (based on ETL) of Flonicamid 175 g/ ha and pymetrozin 50WG @ 250 gm/ha.with tank mix of neem oil	1	1	ST(M)-10		ST(M) -10	
5	Rice	IDM	Application of can mixture of Profenphos 40 % + Cypermethrin 4 % (profex super)@ 440 ml / ha during tillering stage.	1	1	ST(M)-10		ST(M) -10	
6	Tomato	Varietal substitution	**Arka rakshak**: High yield F1 hybrid with triple resistant to Bacterial wilt, Early blight and Tomato Leaf curl Virus. Yield 75 – 80t/ha.	1	1	ST(M)-10		ST(M) -10	
7	Onion	Varietal substitution	**Line 883**: Bulb are dark, red, round shape, shiny skin, bulb dia 4.5-5.5cm, 90 days duration, avg. yield 300-325q/ha.	1	1	ST(M)-10		ST(M) -10	
8	Mushroom	Mushroom cultivation	Cultivation of sp. Hypsizygous ulmarius (Blue Oyster)	10 SHGs	10 SHGs	ST (F)-10		ST (F)-10	
9	Maize	Nutrient Management	Preparation of maize pop corn	10 SHGs	10 SHGs	ST (F)-10		ST (F)-10	
10	Redgram	Nutrient	Seed treatment with	1	1	ST(M)-10		ST(M)	

		Management	ammonium molybdate @ 4 gram /kg seed with rhizobium 20 ml/kg seed increases the efficiency of rhizobium in acid soil resulting higher N fixation and therefore the crop yield increases.					-10	
11	Green gram	Nutrient Management	**Application of Boron (20%) @ 2.5 g/lit. of water at flower initiation increases the plant height, number of nodules plant^{-1}, dry weight plant^{-1} and number of pods plant^{-1}, 1000-seed weight, grain yield and haulm yield in green gram.**	1	1	ST(M)-10		ST(M) -10	
12	Chilli	IPM	Five foliar sprays of silica (Potassium Silicate) @ 4 ml/l at 10 days interval, Need based application of Spinosad 45% SC @ 3.2 ml/10 l of water during the time of pest emergence	1	1	ST(M)-10		ST(M) -10	
13	Black gram	Nutrient management	Seed treatment with ammonium molybdate @ 4 gram /kg seed with rhizobium 20 ml/kg seed increases the efficiency of rhizobium in acid soil resulting higher N fixation and therefore the crop yield increases.	1	1	ST(M)-10		ST(M) -10	
14	Maize	Nutrient management	Seed treatment with PSB @ 25 gram /kg seed in maize reduces P fixation in acid soil . Therefore the uptake of P is increased by the crop resulting higher yield .	1	1	ST(M)-10		ST(M) -10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P_2O_5	K_2O					
Maize	Kharif 2019	Rainfed Upland	Alfisol	157.4	11.7	267.3	Maize	15.07.2019	12.11.2019		
Rice	Kharif 2019	Rainfed Medium land	Alfisol	112	23	265	Maize	12.07.2019	02.11.2019		
Rice	Kharif 2019	Rainfed Medium land	Alfisol	124	21	271	No	02.07..2019	9.11.2019		
Maize	Kharif 2019	Rainfed Medium land	Alfisol	121	22.5	257	Maize	15.07..2019	7.11.2019		
Rice	Kharif 2019	Rainfed Medium land	Alfisol	124	21	271	No	17.07..2019	12.11.2019		
Onion	Rabi,2019-20	Rainfed Medium land	Alfisol	124	21	271	No	19.07..2019	03.11.2019		
Tomato	Rabi,2019-20	Rainfed Upland	Alfisol	124	21	271	No	02.07..2019	9.11.2019		
Rice	Kharif 2019	Rainfed Medium land	Alfisol	104.6	24.1 -	248.8	Maize	15.07.2019	12.11.2019		
Rice	Kharif 2019	Rainfed Medium land	Alfisol	112	23	265	Maize	12.07.2019	02.11.2019		
Rice	Kharif 2019	Rainfed Medium land	Alfisol	124	21	271	No	02.07..2019	9.11.2019		
Maize	Kharif 2019	Rainfed Medium land	Alfisol	104.6	24.1 -	248.8	Maize	15.07.2019	12.11.2019		
Green	Rabi,2019-	Irrigated	Alfisol	138.2	31.2	212.9	Maize	05.01.2020	16.04.2020		

gram	20	medium land									
Onion	Rabi,2019-20	Irrigated medium land	Alfisol	342.6	23.7	265.4	Maize	02.12.2019	30.04.2020		
Cauliflower	Rabi,2019-20	Irrigated medium land	Alfisol	374.2	32.8	273.9	Maize	20.12.2019	23.03.2020		

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

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

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

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

Pulses

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Black gram	Weed Management	**Pre-emergence application of pendimethalin @ 1.0 kg a.i./ha**	10	1	5.55	3.65	42.16	20000	49950	29950	2.49	15000	32850	17850	2.19

Blackgram	Nutrient Management	Seed treatment with rhizobium 20 ml /kg seed and ammonium molybdate @ 4 gram /kg seed	10	1	7.1	5.3	33.96	25000	63900	38900	2.56	22000	47700	25700	2.16
Redgram	Nutrient management	**Seed treatment with rhizobium @ 20 ml/kg seed and ammonium molybdate @ 4 gram /kg seed .**	10	1	7.08	5.35	32.33	25000	63720	38720	2.55	22000	48150	26150	2.18
Greengram	Nutrient management	**Application of Boron (20%) @ 2.5 g/litre of water at flower initiation**	10	1	5.55	4.15	33.73	22000	49950	27950	2.27	19000	37350	18350	1.96
	Total														

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

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Maize	Weed Management	**Pre-emergence application of Atrazine @ 1.5 kg a.i/ha + Tembotrione (Laudis) 120g a.i/ha at 25 DAS**	10	1	56.25	47.75	20.32			30000	78750	48750	2.63	27000	66850	39850	2.46
Rice	Varietal substitution	**Rice var. CR Dhan 202 (NRRI,Cuttack)**	10	1	36.25	25.5	42.16			25000	67000	42000	2.68	20000	47175	27175	2.35
Rice	IDM	Seed treatment with brine solution followed by 1 spray of Hexaconazole @0.1% during tillering stage and 1 spray of Pyraclostrobin @0.15% during PI stage	10	1	51.63	41.8	19.03			36000	92900	56900	2.58	32000	75240	43240	2.35

Rice	IPM	Skip row planting (after 3 m), installation of spider trap @ 25/ ha. Need based alternate spraying (based on ETL) of Flonicamid 175 g/ ha and pymetrozin 50WG @ 250 gm/ha.with tank mix of neem oil	10	1	39.20	29.75	31.76			30000	72520	42520	2.42	26000	55000	29000	2.11
Rice	IPM	Application of can mixture of Profenphos 40 % + Cypermethrin 4 % (profex super)@ 440 ml / ha during tillering stage.	10	1	38.85	33.5	18.69			30000	71870	41870	2.39	28000	61970	33970	2.21
Tomato	Varietal substitution	Tomato variety Arka Rakshak	10	1	315	235	34.04			65000	252000	187000	3.87	60000	188000	128000	3.13
		Total															

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
Buffalo																	
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl.specify)																	

Total																	

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

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	
Ornamental fishes																	
Others (pl.specify)																	
		Total															

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

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR

Oyster mushroom	Improved package of practices for higher productivity (***Pleurotus pulmonarius***)	10	10	1-Days to mycelia colonization 2-Days to Pin head emergence 3-Days to first/second/third harvest 4-Biological efficiency 5-Economics	Result awaited												
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl.specify)																	
	Total																

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

** BCR= GROSS RETURN/GROSS COST

Women empowerment

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

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit)			
					Demonstration	Check									

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

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
Cereals				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (Pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										

Groundnut										
Soybean										
Others (Pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (Pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (Pl.specify)										
Total										
Commercial crops										
Cotton										
Coconut										
Others (Pl.specify)										
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										

Sorghum (Fodder)										
Others (Pl.specify)										
Total										

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Maize	**Pre-emergence application of Atrazine @ 1.5 kg a.i/ha + Tembotrione (Laudis) 120g a.i/ha at 25 DAS gives good weed control and increases yield of maize**
2	Rice	Direct seeded rice **var. CR Dhan 202 gives good no. of effective tillers and yield than local var. Bharati**
3	Rice	Seed treatment with brine solution followed by 1 spray of Hexaconazole @0.1% during tillering stage and 1 spray of Pyraclostrobin @0.15% during PI stage provide better protection to rice against false smut disease.

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	6.11.2021, 8.11.2021, 18.11.2021, 25.11.2021	6	200	
2.	Farmers Training	5.7.2021, 8.07.2021, 13.07.2021, 22.07.2021	4	100	
3.	Media coverage	--	---	--	
4.	Training for extension functionaries	28.07.2021, 02.08.2021,	4	30	

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

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	Black gram Kharif 2021	Indiscriminate local var	4.9	5.2	5.6	8.0	• Improved variety RU 03-04 • Line sowing (30*10 cm) • STBFA dose of Fertilizer NPK 25:50:40 kg/ha • Foliar sprayed of multi micro-nutrients @ 2ml/lit once at pre-flowering stage . • Applied Fungicide carbendazim 12%+mancozeb63 % @1.5 ml /lit for control of brown spot and other leaf spot. • Applied	50	20	7.4	6.6	7.1	36.5	26.8	(-) 11.3

							insecticide @ Deltamethrin1%+trizaphos35%@ 2 ml /lit to control pod borer And stem borer and Acetamiprid 20% @ 2 ml/lit to control white fly.								

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	• Improved variety RU 03-04 • Line sowing (30*10 cm) • STBFA dose of Fertilizer NPK 25:50:40 kg/ha • Foliar sprayed of multi micro-nutrients @ 2ml/lit once at pre-flowering stage and. • Applied Fungicide carbendazim 12%+mancozeb63% @1.5 ml /lit for control of brown spot and other leaf spot. • Applied insecticide @ Deltamethrin1%+	29500.00	58800.00	29300.00	1.99:1	33100.00	85200.00	49800	2.57:1

	trizaphos 35%@ 2 ml /lit to control pod borer And stem borer and Acetamiprid 20% @ 2 ml/lit to control white fly.								

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1	Black Gram var-RU 03-04	35500 kg	150 Kg	Rs 120.00/Kg	20	20	Household	95

D. Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
	• Improved variety RU 03-04 • Line sowing (30*10 cm) • STBFA dose of Fertilizer NPK 25:50:40 kg/ha • Foliar sprayed of multi micro-nutrients @ 2ml/lit once at pre-flowering stage and. • Applied Fungicide carbendazim 12%+mancozeb63% @1.5 ml /lit for control of brown spot and other leaf spot. • Applied insecticide @ Deltamethrin1%+trizaphos 35%@ 2 ml /lit to control pod borer And stem borer and Acetamiprid 20% @ 2	Yes	Yes	Yes	No	Yes	Technology accepted by the farmers .The problem is with the storage of seeds .Hence support may be given for purchase of storage bins .

	• ml/lit to control white fly.						

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Blackgram Var RU 03-04 is slightly long duration having 70-85 days and late flowering.	Very good	Yield Advantage of 44.89 % over Local check .	1. Germination of the variety RU 03-04 is good. 2. Non significant occurance of YMV . 3. 3. Higher Yield

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	**1**	**Awareness programme**	**01.8.2021**
2	**2**	**Field visit**	**03.08.21, 18.08.21 , 15.09.21,**
3	**3**	**FIELD DAY**	**25.10.2021**

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

H.

I. Farmers' training photographs

J. Quality ActionPhotographs 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.)
	i) Critical input	i) Critical input	Rs 160920	Rs 160920
	ii) TA/DA/POL etc. for monitoring	ii) TA/DA/POL etc. for monitoring	Rs 10,180	Rs 10,180
	iii) Extension Activities (Field day)	iii) Extension Activities (Field day)	Rs 3700	Rs 3700
	iv)Publication of literature	iv)Publication of literature	Rs 4000	Rs 4000
	Total	Total	1,78,800	1,78,800

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

A) Farmers and farm women (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													
Others													
Total													
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Off0season vegetables													
Nursery raising													
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													

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 Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management													
Integrated water management													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
others													
Total													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Processing & cooking													
Gender mainstreaming through SHGs													

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
Storage loss minimization techniques													
Value addition													
Women empowerment													
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care													
Others													
Total													
VI. Agril. Engineering													
Farm machinery & its maintenance													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL													

B) Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops	1							12	3	15	12	3	15
Training and pruning of orchards	1							8	7	15	8	7	15
Protected cultivation of vegetable crops	2							16	14	30	16	14	30
Commercial fruit production	1							11	4	15	11	4	15
Integrated farming	2							18	12	30	18	12	30
Seed production													
Production of organic inputs	2							30	0	30	30	0	30
Planting material production	1							9	6	15	9	6	15
Vermiculture	1							13	2	15	13	2	15
Mushroom Production	1	0	5	5	0	7	7	0	3	3	0	15	15
Beekeeping	1	5	0	5	0	0	0	10	0	10	15	0	15
Sericulture													
Repair and maintenance of farm machinery and implements													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Value addition	1	0	5	5	0	7	7	0	3	3	0	15	15
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others (IPM and IDM)	3	11	2	13	0	0	0	26	6	30	37	8	45
Total													

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management	2	30	0	30	0	0	0	0	0	0	30	0	30
Integrated Nutrient management	2	30	0	30	0	0	0	0	0	0	30	0	30
Rejuvenation of old orchards													
Protected cultivation technology	1	15	0	15	0	0	0	0	0	0	15	0	15
Production and use of organic inputs	2	30	0	30	0	0	0	0	0	0	30	0	30
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security	1	15	0	15	0	0	0	0	0	0	15	0	15
Other													
Total													

D) Farmers and farm women (off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	2	-	-	-	10	15	25	10	15	25	20	30	50
Resource Conservation Technologies													
Cropping Systems	2	-	-	-	10	15	25	10	15	25	20	30	50
Crop Diversification													
Integrated Farming	1	-	-	-	3	5	8	10	7	17	13	12	25
Micro irrigation/irrigation													
Seed production	2	-	-	-	10	15	25	10	15	25	20	30	50
Nursery management													
Integrated Crop Management	2	-	-	-	10	15	25	10	15	25	20	30	50
Soil & water conservation	2	-	-	-	10	15	25	10	15	25	20	30	50
Integrated nutrient Management	2	-	-	-	10	15	25	10	15	25	20	30	50
Production of organic inputs	2	-	-	-	10	15	25	10	15	25	20	30	50
Others	2	-	-	-	10	15	25	10	15	25	20	30	50
Total													
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops	2	-	-	-	10	15	25	10	15	25	20	30	50
Off0season vegetables	2	-	-	-	10	15	25	10	15	25	20	30	50
Nursery raising	2	-	-	-	10	15	25	10	15	25	20	30	50
Exotic vegetables													
Export potential vegetables	4	-	-	-	10	15	25	46	29	75	56	44	100
Grading and standardization													
Protective cultivation	2	-	-	-	10	15	25	10	15	25	20	30	50
Others													
Total (a)													
b) Fruits													
Training and Pruning	2	-	-	-	10	15	25	10	15	25	20	30	50
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others													
Total (b)	1	-	-	-	-	-	-	18	7	25	18	7	25
c) Ornamental Plants													
Nursery Management													
Management of potted plants	1	-	-	---	-	-	-	18	7	25	18	7	25
Export potential of ornamental plants	1	-	-	---	-	-	-	18	7	25	18	7	25
Propagation techniques of Ornamental Plants	1	-	-	---	-	-	-	18	7	25	18	7	25
Commercial flower cultivation	1	-	-	---	-	-	-	18	7	25	18	7	25
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management													
Integrated water management													
Integrated Nutrient Management	4	21	16	37	4	4	8	32	22	54	58	42	99
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops	1	1	0	1	0	0	0	14	0	14	15	0	15
Nutrient Use Efficiency	6	11	0	11				109	30	129	120	30	150
Balance Use of fertilizer													
Soil & water testing	1	6	7	13	0	0	0	11	1	12	17	8	25
others	4	21	16	37	4	4	8	32	22	54	58	42	99
Total													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	02	0	2	2	0	0	0	3	45	48	3	47	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													
Value addition	02	0	1	1	1	0	1	7	41	48	8	42	50
Women empowerment	02	0	0	0	0	0	0	2	33	35	2	33	35
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care													
Others													
Total													
VI. Agril. Engineering													
Farm machinery & its maintenance													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management	7	25	20	45	10	3	13	101	16	117	136	39	175
Integrated Disease Management	4	2	2	4	0	0	0	74	22	96	76	24	100
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others	1	0	0	0	0	0	0	23	2	25	23	2	25
Total	12	27	22	49	10	3	13	198	40	238	235	65	300
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
Hatchery management and culture of freshwater prawn													

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
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL													

E)RURAL YOUTH (Off Campus)

Thematic Area	No. of Courses	No. of Participants			Grand Total
		Other	SC	ST	

		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming													
Seed production													
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping													
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others													
Total													

F) Extension Personnel (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic 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													
Total													

G) Consolidated table (ON and OFF Campus)

i. Farmers& Farm Women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													
Others													
Total													
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Off0season vegetables													
Nursery raising													
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													

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 management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management													
Integrated water management													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
others													
Total													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition													
Women empowerment													
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care													
Others													
Total													
VI. Agril. Engineering													
Farm machinery & its maintenance													
Installation and maintenance of micro irrigation systems													

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
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management	7	25	20	45	10	3	13	101	16	117	136	39	175
Integrated Disease Management	4	2	2	4	0	0	0	74	22	96	76	24	100
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others	1	0	0	0	0	0	0	23	2	25	23	2	25
Total	12	27	22	49	10	3	13	198	40	238	235	65	300
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group													

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
Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL													

ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming													
Seed production													
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping	1	5	0	5	0	0	0	10	0	10	15	0	15
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													

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
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others (IPM and IDM)	3	11	2	13	0	0	0	26	6	30	37	8	45
Total													

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	1	15	0	15	0	0	0	0	0	0	15	0	15
Integrated Pest Management	2	30	0	30	0	0	0	0	0	0	30	0	30
Integrated Nutrient management	2	30	0	30	0	0	0	0	0	0	30	0	30
Rejuvenation of old orchards													
Protected cultivation technology	1	15	0	15	0	0	0	0	0	0	15	0	15
Production and use of organic inputs	2	30	0	30	0	0	0	0	0	0	30	0	30
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													

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
Other													
Total													

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agronomy	F & FW	Improve package of practices of rabi pulses	1 day	Off	19	6	25	19	6	25
Agronomy	F & FW	Post-harvest loss management in cereals & pulses	1 day	Off	18	7	25	18	7	25
Agronomy	F & FW	Pond based IFS	1 day	Off	17	8	25	17	8	25
Agronomy	F & FW	Organic Farming	1 day	Off	15	10	25	15	10	25
Agronomy	F & FW	Non-land based farming for socio-economic development of tribal farmer	1 day	Off	12	13	25	12	13	25
Agronomy	F & FW	Cultivation practices of off-season tomato	1 day	Off	17	8	25	17	8	25
Agronomy	F & FW	Package of practices of summer vegetables	1 day	Off	19	6	25	19	6	25
Agronomy	F & FW	Scientific method of sunflower cultivation	1 day	Off	20	5	25	20	5	25
Agronomy	F & FW	Scientific method of finger millet cultivation	1 day	Off	15	10	25	15	10	25
Agronomy	RY	Vermitechnology	2 days	ON	15	-	15	15	-	15
Agronomy	RY	Organic Farming	2 days	ON	15	-	15	15	-	15
Agronomy	RY	Pond-based IFS	2 days	ON	12	3	15	12	3	15
Agronomy	RY	Role of women in crop cultivation	2 days	ON	11	4	15	11	4	15
Agronomy	EF	Integrated	1 day	ON	15	-	15	-	-	-

		farming system								
Agronomy		Weed management and identification of plant growth regulators	1 day	ON	15	-	15	-	-	-
Soil Science	F&FW	INM in rice	1 day	OFF	14	11	25	11	10	21
Soil Science	F&FW	INM in Maize	1 day	OFF	14	11	25	13	10	23
Soil Science	F&FW	INM in cauliflower and cabbage	1 day	OFF	15	10	25	13	10	23
Soil Science	F&FW	INM in Brinjal and tomato	1 day	OFF	15	10	25	7	3	10
Soil Science	F&FW	Appliocation techniques of fertilizers in vegetable crops	1 day	OFF	25	0	25	5	3	8
Soil Science	F&FW	Micronutrient Management in cole crops	1 day	OFF	24	1	25	24	0	24
Soil Science	F&FW	Use of LCC in rice	1 day	OFF	21	4	25	11	4	15
Soil Science	F&FW	Use of LCC in Maize	1 day	OFF	15	10	25	15	10	25
Soil Science	F&FW	Use of soluble fertilizer in rice	1 day	OFF	15	10	25	15	10	25
Soil Science	F&FW	Use of soluble fertilizer in blackgram	1 day	OFF	25	0	25	25	0	25
Soil Science	F&FW	Use of rhizobium in pulse crop	1 day	OFF	19	6	25	19	6	25
Soil Science	F&FW	Storage techniques of fertilizers and agrochemicals	1 day	OFF	17	8	25	11	1	12
Soil Science	RY	Organic farming	2 days	ON	15	0	15	14	0	14
Soil Science		Storage techniques of fertilizers and agrochemicals	2 days	ON	15	0	15	14	0	14
Soil Science		Production techniques of vermicompost	2 days	ON	15	0	15	6	0	6
Soil Science		Production techniques of Azolla and BGA	2 days	ON	15	0	15	6	0	6
Soil Science	EF	Identification of nutrient	1 day	ON	15	0	15	6	0	6

		deficiency in crop plant and their remedies								
Soil Science	EF	Site specific nutrient management for sustainable crop production	1 day	ON	14	1	15	5	1	6
Horticultur e	F&FW	Off-season vegetable cultivation	2 day	OFF	35	15	50	35	15	50
	F&FW	Training & Pruning	1 day	OFF	18	7	25	18	7	25
	F&FW	Export potential of ornamental plants	1 day	OFF	18	7	25	18	7	25
	F&FW	Propagation techniques of ornamental plants	1 day	OFF	18	7	25	18	7	25
	F&FW	Management of potted plants	1day	OFF	18	7	25	18	7	25
	F&FW	Commercial flower production	1 day	OFF	18	7	25	18	7	25
	RY	Protected cultivation of vegetable crops	2 days	ON	11	4	15	11	4	15
	RY	Commercial fruit Production	2 days	ON	11	4	15	11	4	15
	RY	Training & Pruning of orchard	2 days	ON	11	4	15	11	4	15
Crop Protection	Farmers & farmwome n	BLB management in Rice	1	Off	25	0	25	25	0	25
Crop Protection	Farmers & farmwome n	Integrated Disease management in direct seeded rice	1	Off	17	8	25	15	4	19
Crop Protection	Farmers & farmwome n	Integrated Pest management in transplanted rice	1	Off	25	0	25	21	1	22
Crop Protection	Farmers & farmwome n	Fall Army Worm management in maize	1	Off	23	2	25	19	0	19
Crop Protection	Farmers & farmwome n	Stem Borer management in Maize	1	Off	25	0	25	19	2	21
Crop	Farmers &	Integrated	1	Off	21	4	25	19	2	21

Protection	farmwomen	Disease management in Pulse								
Crop Protection	Farmers & farmwomen	Tikka Disesase Management in Groundnut	1	Off	25	0	25	21	2	23
Crop Protection	Farmers & farmwomen	Management of Onion Thrips in onion	1	Off	22	3	25	18	2	20
Crop Protection	Rural youth	Honeybee keeping for income Generation	1	On	15	0	15	15	0	15
Crop Protection	Rural youth	Mushroom Cultivation for income Generation	1	On	15	0	15	15	0	15
Crop Protection	Rural youth	Sugarcane Juice Production for income Generation	1	On	15	0	15	15	0	15
Crop Protection	Rural youth	Safe use of Pesticides	1	On	15	0	15	15	0	15

H) Vocational training programmes for Rural Youth

a) Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
--	--	--	--	--	--	--	--	--	--	--

*training title should specify the major technology /skill transferred

b) Details of participation

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Crop production and management													
Commercial floriculture													
Commercial fruit production													
Commercial vegetable production													
Integrated crop management													

Organic farming													
Other													
Total													
Post harvest technology and value addition													
Value addition													
Other													
Total													
Livestock and fisheries													
Dairy farming													
Composite fish culture													
Sheep and goat rearing													
Piggery													
Poultry farming													
Other													
Total													
Income generation activities													
Vermicomposting													
Production of bioagents, biopesticides,													
biofertilizers etc.													
Repair and maintenance of farm machinery &imlements													
Rural Crafts													
Seed production													
Sericulture													
Mushroom cultivation													
Nursery, grafting etc.													
Tailoring, stitching, embroidery, dying etc.													
Agril. Para-workers, para0vet training													
Other													
Total													
Agricultural Extension													
Capacity building and group dynamics													
Other													
Total													

Grand Total													

I) Sponsored Training Programmes: N.A

a) Details of Sponsored Training Programme

Sl.No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of participants	Sponsoring Agency
					PF/RY/EF			

b) Details of participation : N.A

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Crop production and management													
Increasing production and productivity of crops													
Commercial production of vegetables													
Production and value addition													
Fruit Plants													
Ornamental plants													
Spices crops													
Soil health and fertility management													
Production of Inputs at site													
Methods of protective cultivation													
Other													
Total													
Post harvest technology and value addition													
Processing and value addition													
Other													

Total													
Farm machinery													
Farm machinery, tools and implements													
Other													
Total													
Livestock and fisheries													
Livestock production and management													
Animal Nutrition Management													
Animal Disease Management													
Fisheries Nutrition													
Fisheries Management													
Other													
Total													
Home Science													
Household nutritional security													
Economic empowerment of women													
Drudgery reduction of women													
Other													
Total													
Agricultural Extension													
Capacity Building and Group Dynamics													
Other													
Total													
Grant Total													

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	2	40	60	100	100	4	1	5	44	61	105
Kisan Mela	1	105	195	300	100	5	2	7	110	197	307
Kisan Ghosthi	-	-	-	-	-	-	-	-	-	-	-
Exhibition	1	150	120	270	100	10	2	10	160	122	282
Film Show	21	2	3	63	90	5	2	7	257	380	637

		52	78	0							
Method Demonstrations	-	-	-	-	-	-	-	-	-	-	-
Farmers Seminar		-	-	-	-	-	-	-	-	-	-
Workshop		-	-	-	-	-	-	-	-	-	-
Group meetings	13	140	185	325	95	4	2	6	144	187	331
Lectures delivered as resource persons	36	8555	10800	1935	75	52	9	61	907	1089	1996
Advisory Services	14	125	35	160	100	6	2	8	131	37	168
Scientific visit to farmers field	170	810	32	842	80	12	3	15	822	35	857
Farmers visit to KVK	52	25222	728	3250	70	22	7	29	2544	735	3279
Diagnostic visits	172	1364	396	1760	60	24	5	29	1388	401	1789
Exposure visits	2	12	0	12	90	3	0	4	25	0	25
Ex-trainees Sammelan	3	60	15	75	85	5	2	7	65	17	82
Soil health Camp	4	150	50	200	80	5	2	7	160	52	212
Animal Health Camp	--	-	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	10	325	175	500	70	15	5	20	340	180	520
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	5	135	115	250	75	12	5	17	147	120	267
Sankalp Se Siddhi	--	-	-	-	-	-	-	-	-	-	-
Swatchta Hi Sewa	36	375	345	720	80	15	7	21	390	352	742
Mahila Kisan Divas	01	0	5	50	85	2	2	4	2	52	54

			0								
Any Other (Specify)											
Total											

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	12
Radio talks	--
TV talks	-
Popular articles	-
Extension Literature	7
Other, if any	

3.5 a. Production and supply of Technological products : N.A

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
Grand Total											

Production of planting materials by the KVKs

Crop	Variety	No. of planting	Value	Number of farmers

		materials	(Rs)	to whom planting material provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Vegetable seedlings											
Cauliflower	Hyb.	10000	15000	11	2	25	12	5	0	41	14
Cabbage	Hyb.	10000	15000	8	10	25	15	7	0	40	25
Tomato	Hyb.	10000	15000	11	2	25	12	5	0	41	14
Brinjal	Hyb.	10000	15000	8	10	25	15	7	0	40	25
Chilli	Hyb.	10000	15000	11	2	25	12	5	0	41	14
Onion											
Others											
Fruits											
Mango											
Guava											
Lime											
Papaya	Sapna	1000	20000	5	7	12	7	7	0	24	14
Banana	G9 Sucker	60	600	5		11	0	5	0	21	0
dRUMSTICK	PKM1	1000	10000	5	7	12	7	7	0	24	14
Ornamental plants											
Medicinal and Aromatic											
Plantation											
Spices											
Turmeric											
Tuber											
Elephant yams											
Fodder crop saplings											
Forest Species											
Marigold	Ceracole	5000	5000	0	12	8	10	0	0	8	22
Total		57060	110600	64	52	168	90	48	0	280	142

Production of Bio-Products

Name of product	Quantity Kg	Value (Rs.)	No. of Farmers benefitted							
			SC		ST		Other		Total	
			M	F	M	F	M	F	M	F
Bio-fertilizers										
Bio-pesticide										
Bio-fungicide										
Vermiworm	10kg	5000	0	0	3	0	1	0	4	0
Vermicompost	30q	15000	2	0	5	0	3	0	10	0
Total										

Production of livestock materials: N.A

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Dairy animals											
Cows											
Buffaloes											
Calves											
Others (Pl. specify)											
Small ruminants											
Sheep											
Goat											
Other, please specify											
Poultry											
Broilers											
Layers											
Duals (broiler and layer)											
Japanese Quail											
Turkey											
Emu											
Ducks											
Others (Pl. specify)											
Piggery											
Piglet											
Hog											
Others (Pl. specify)											
Fisheries											
Indian carp											
Exotic carp											
Mixed carp											
Fish fingerlings											
Spawn											
Others (Pl. specify)											
Grand Total											

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

i) Name of Seed Hub Centre: N.A

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

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown	Production	Category of

				(ha)		Seed (F/S, C/S)
Kharif 2020	Paddy	Ankit	45q	1.5	44q	FS
	Niger	Utkal Niger 150	3 ha	3 ha	9q	FS
Rabi 2020-21						
Summer/Spring 2021						
Kharif 2021						
Rabi 2021-2022						

iii) Financial Progress

Fund received (2017-18, 2018-19, 2019-20, 2020-21, 2021-22)	Expenditure (Rs. in lakh)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2017-18	2017-18	--	91144.60	
2018-19	--	159454.85		
2019-20	--	373193.30		
2020-2021	--	155377.60		
2021-2022				

iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

3.6.

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

Item	Title	Author's name	Number	Circulation
Research paper				
Seminar/conference/ symposia papers				
Books				
Bulletins				
News letter	Sabuja sathi	KVK	500	500
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature	Scientific method of Ground nut cultivation	Dr. G.C. Sahoo Dr. P. Murmu Sh. R.P. Mohalik	500	Mass

Technical reports				
Electronic Publication (CD/DVD etc)	Foliar application of boron in maize, Oyster mushroom cultivation	KVK	2	
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: N.A

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, if any (two or three pages write-up on 1-2best case(s) with suitable action photographs)

Name of farmer	Sh. Sujit Das
Address	Vill.UV-2,Badakumari,Block-Umerkote,Dist.-Nabarangpur,Odisha
Contact details (Phone, mobile, email Id)	9777173435
Landholding (in ha.)	3.6 ha
Name and description of the farm/ enterprise	Sh.Sujit Das is a role model for other farmers of the district in **Integrated Farming System** approach for sustainable production with attractive return. He is operating in 3.6 ha of land having pond area 1 ha , grafted brinjal-0.4 ha, hyb. Chilli-0.4 ha, cauliflower-1 ha, cowpea-0.2 ha ,bitter gourd-0.2 ha b, beans-0.4 ha , green pea-0.8 ha , hyb. Napiar-0.4 ha , with 10 no. of cows, 10 no. of ducks. He is producing vermicompost by utilizing the farm by-products with *Eudrillud euginea* and utilisatiing it for crop production in his farm. He utilizes the techniques of integrated nutrient management and integrated pest management in his farm. He produces 30 qtls. Of fish, 15 tons of brinjal, 1 tonns of chilli, 20 tones of cauliflower, 2 tones of cowpea, 3 tones of bitter gourd, 5 tones of beans, 2 tones of green pea annually. He gets 8 tones of hyb. Napiar grass, 2000 lits. Of milk, 1500 no. of duck eggs. He produces around 20 tones of vermicompost which is utilized in his own farm
Economic impact	

Sl.No.	*Name of the crop*	*Area*	*Production*	*Cost of cultivation*	*Gross return*	*Net Return*
1	**Fish**	**1 ha**	**3 tons**	**1,00,000**	**4,50,000**	**3,50,000**
2	**Grafted Brinjal**	**0.4 ha**	**15 tons**	**40,000**	**3,00,000**	**2,60,000**

	3	Chilli	0.4 ha	1 ton	30,000	1,00,000	70,000
	4	Cauliflower	1ha	20 tons	50,000	4,00,000	3,50,000
	5	Cowpea	0.2 ha	2 tons	20,000	80,000	60,000
	6	Bitter gourd	0.2 ha	3 tons	20,000	1,20,000	1,00,000
	7	Beans	0.4 ha	5 tons	30,000	1,50,000	1,20,000
	8	Green pea	0.8 ha	2 tons	20,000	80,000	60,000
	9	Hyb. Napiar	0.4ha	30 tons	60,000	Grass used for cattle feed	
	10	Cow	10 nos.	10000 lit.		2,50,000	1,90,000
	11	Duck	10 nos.	1500 no. of duck eggs	2000	7500	5500
		Total	3.6 ha		3,72,000	19,37,500	15,65,500
Social impact	Many farmers of his village and adjacent villages are following his techniques of farming with attractive return. Out of them 8 farmers already started their farm with proper guidance of KVK Scientist.						
Environmental impact	He is growing vegetables totally organically with his own produced vermicompost and time to time he purchased vermicompost from KVK						
Horizontal/ Vertical spread	8 farmers have adopted his approach of Integrated Farming System in different villages						

Name and Address: Smt Pratima Mishra
At/po-Umerkote, Block-Umerkote, District-Nabarangpur, State-Odisha
Pin-764073, Mobile no-7077333905

Category: Women Empowerment

Smt Pratima Mishra, age-45yrs is an arts graduate and is a successful mushroom entrepreneur of Umerkote block of Nabarangpur district. She is a medium farmer having 8 to 10 acres of land resources and mostly she was cultivating rice once a year. However, her annual income was very poor to run her livelihood as she was following conventional practices. Therefore, she took up mushroom cultivation as a profitable venture during the year 2017-18 and now she is growing mushroom in an area of 1500 sq ft (50ft × 30ft) with 2400 beds of paddy straw mushroom per 8months (March-October) a year and 1500 bags of oyster mushroom per 4months (November-February) a year . Her annual earning is 2.5 lakhs from paddy straw mushroom and 1.5 lakhs from oyster mushroom with an average of Rs.33000/-per month approximately. She obtained the necessary training on mushroom cultivation technology from Krishi Vigyan Kendra, dist-Nabarangpur through ASCI (Agriculture Skill Council of India) training for 25days. Now she is disseminating mushroom cultivation technology to the local farmers and WSHGs for popularization.

Krishi Vigyan Kendra is engaged in imparting awareness programmes, trainings, front line demonstrations, on-farm trials on mushroom cultivation, free supply of production inputs under Tribal Sub Plan programme, exposure visit, celebration of womens day in agriculture etc. for popularization of mushroom cultivation in Nabarangpur district. As mushroom is a women friendly crop, selected members of WSHGs of different blocks of Nabarangpur district are being trained first at Krishi Vigyan Kendra level as master trainers and in turn these master trainers are imparting training to other members of the groups helping in popularization of mushroom production technology across the blocks/district.

Adoption and popularization of mushroom cultivation technology by Smt.Pratima Mishra has attracted so many women farmers and WSHGs of the blocks/district over year as a profitable venture. Now 8 blocks out of 10 blocks of Nabarangpur district, women farmers and WSHGs are engaged in

mushroom cultivation round the years successfully and earning a profitable amount for their livelihood. As mushroom is having high food value basically protein and other essential elements beside antioxidants, malnutrition being addressed among the population.

Smt Mishra has been recognized due to her Excellence in mushroom production, popularization and felicitated by Krishi Vigyan Kendra as well as Department of Horticulture at various times at GP/blocks/district level. Her massive effort on Popularization of mushroom is really commendable. As 'Mission Shakti' is being strengthened in day by day, the sincere efforts of WSHGs in the state Odisha will achieve non-green revolution in near future.

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	Rice	20ha	..	20	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 Soiland Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
1	pH meter	1 no.
2	EC meter	1 no.
3	Spectrophotometer	1 no.
4	Flame photometer	1 no.
5	Digital balance	1 no.
6	Mechanical shaker	1 no.
7	Hot air oven	1 no.
8	N-Autoanalyser	1 no.
9	Mridaparikshyak	1 no.
10	Hydrometer	1 no.

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			
127	115	242	750	13	0.00

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	Farmer Scientist interaction	200	4	i. Dr. Ajit Kumar Mishra, Collector-cum-District Magistrate ii. Sh. Sadasib Pradhani, MLA, Nabarangpur iii. Sh. Manahar Randhari, MLA, Dabugaon iv. Smt. Bhagabati Bhatra,President, Zilla Parishad	200	200

3.12. Activities of rain water harvesting structure and micro irrigation system:N.A

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: N.A

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

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

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
06.02.2021	i. Dr. Ajit Kumar Mishra, Collector-cum-District Magistrate ii. Sh. Ramesh Majhi, MP iii. Prakash Majhi, MLA iv. Divisional forest Officer, Nabarangpur v. Prodosh Ponda, DDH, Nabarangpur	KVK Farm visit

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)
Mushroom cultivation	15	86.7	Rs. 50/Bed	Rs. 100/Bed
Vermitechnology	20	90.0	Rs. 2500/tank	Rs. 5000/tank
Backyard poultry	25	80.0	Rs. 160/Bird	Rs. 400/Bird

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

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

Horizontal spread of technologies	
Technology	Horizontal spread
Cultivation of kharif Onion	500 ha
Use of herbicide Pretilachlor (6%)+ Bensulfuron methyl (0.6%) (Londex power) @ 10kg/ha at 3 DAT followed by post-**emergence** spraying of Bispyribac Sodium 10% SC(9.5 %W/W) @ 300 ml/ha at 10-15 DAT	20,000 ha

in paddy	
STBFA in Maize	20,000 ha
STBFA in Rice	50,000 ha
Intercropping of Cowpea in Maize	10,000 ha
Intercropping of Blackgram in Maize	10,000 ha
Cultivation of Tissue culture Banana	500 ha

Give information in the same format as in case studies

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

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms
1	Improve method of mushroom cultivation	83 nos. of SHGs adopted the method of mushroom cultivation	254 nos. of beneficiary adopted the technology

4.4. Details of innovations recorded by the KVK: N.A

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
CDAO	BGREI, ATMA activities
DDHO	Nursery accridation, Seedling verification
NABARD	Capacity building training
NGO	Village survey, supervision of different works

5.2. List of special programmes undertaken during 2021by 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:N.A

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)

(b) Programme for other activities (training, FLD,OFT, Mela, Exhibition etc.)

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Certificate course for insecticide dealers on pesticide	Updating the knowledge of input dealers	22.01.2021	Dealers own contribution	304000

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1. Performance of demonstration units (other than instructional farm)

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Vermicomposting unit	2012	1 cents.	Vermicompost by Eudrillus eugenea	vermicompost	Vermicompost-20q, Vermiworm-5kg	Rs.4600	Rs.32500	
2.	Herbal Garden	2018	5 cents.	Medicinal plants	Seedlings	---	---	---	
3.	Mushroom production	2006	200	Oyster mushroom	Mushroom	2.5	Rs. 7600	Rs. 24900	

	unit		beds	and paddy straw mushroom		q			
4.	Mango	2012	36 nos. of plant	Amrapalli	Mango Fruit	2 q	Nil	2000	
5.	Poll House	2012	2 cents.	Hyb var.	Vegetable seedlings	2150 0nos.	Rs.19600	Rs.65300	
	Total						31800	124700	

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	
Paddy var. Sahabhagi	23.07.2019	12.11.2019	1.5	Sahabhagi	Foundation	45	61810.6	1,21,500	
Niger	23.08.2020	18.11.2020	3 ha	Utkal Niger 150	Foundation	9 q	Rs45352	Rs.58500	

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	30q	10000	30000	
2.	Vermiworm	10kg	1000	5000	

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.							
2.							
3.							

6.5. Utilization of hostel facilities: No farmers Hostel

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)

Total :			

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed:
No. of staffquarters:
Date of completion:
Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI
	7 nos. of Old damaged quarter					

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Contingency	State Bank of India	Main Branch, Umerkote	11258555265
Revolving Fund	State Bank of India	Bazar Branch, Umerkote	31842335858

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April, 2021
	Kharif	Rabi	Kharif	Rabi	
Groundnut	120,000.00	--	120,000.00		0.00
Groundnut	--	120,000	--	120,000.00	0.00

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2021
	Kharif	Rabi	Kharif	Rabi	
Black gram	180,000.00	--	180,000.00	-	0.00

2019.5. Utilization of KVK funds during the year 2021-22(Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	74.93	74.93	74.93
2	Traveling allowances	1.10	0.875	0.875
3	Contingencies	18.00	11.87	11.87
A	Stationary, telephone, postage…..Newsletter	1.20		

B	POL, Repair of vehicle			
C	Meals and trainings			
D	Training materials	0.90		
E	FLD	0.45		
F	OFT	0.45		
G	TSP	15.00		
H				
I				
J	Swachhta Expenditure/ SAP Fund	0.15		
TOTAL (A)		94.48	87.675	87.675
B. Non-Recurring Contingencies				
1	Equipment & Furniture	2.00		
2	InFormation Technology	0.25		
3	Works	65.21		
4	Library	0.10		
TOTAL (B)		67.56		
C. REVOLVING FUND		543169.75		
GRAND TOTAL (A+B+C)				

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
2019-20	489868.00	Rs. 489868.75	Rs. 56820	
2020-21	257724.00	2,57,724.35	437324.00	
2021-22	543169.75	120964.75	422205.00	241929.5

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

7.7. Joint activity carried out with line departments and ATMA

Nameof activity	Number of activity	Season	With line department	With ATMA	With both
BGREI	12	Kharif ,2021	CDAO,Nabarangpur	ATMA, Nabarangpur	Both
Demonstration	10	Kharif, 2021	--	ATMA, Nabarangpur	--
World Soil Day	1	Rabi,2021	CDAO,Nabarangpur	..	--

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
Fall Army Worm	Maize	20.07.2021	3000 ha	5%	3000 ha
False smut of rice	Rice	12.09.2171	2000 ha	10%	2000 ha

8.2. Prevalent diseases in Livestock/Fishery

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

9.1. Nehru YuvaKendra(NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

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

Type of message	No. of messages	No. of farmers covered
Crop	46	21210
Livestock	-	-
Fishery	-	-
Weather	-	-
Marketing	-	-
Awareness	-	-
Training information	21	4251
Other	-	-
Total	67	25461

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	*1387*
2.	No. of farmers registered in the portal	
3.	Mobile Apps developed by KVK	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	

9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
31 nos.	Cleaning of village road, cleaning of office campus

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	-	**0.00**
2. Basic maintenance	1	**0.00**
3. Sanitation and SBM	3	**1200**
4. Cleaning and beautification of surrounding areas	12	**0.00**
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	3	**13,800**
6. Used water for agriculture/ horticulture application	3	**0.00**
7. Swachhta Awareness at local level	3	**0.00**
8. Swachhta Workshops	-	**0.00**
9. Swachhta Pledge	-	**0.00**
10. Display and Banner	-	**0.00**
11. Foster healthy competition		**0.00**
12. Involvement of print and electronic media	-	**0.00**
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	1	**0.00**
14. No of Staff members involved in the activities	10	**0.00**
15. No of VIP/VVIPs involved in the activities	-	**0.00**
16. Any other specific activity (in details)	-	**0.00**
Total	**36**	**15000**

9.6. Observation of National Science day

Date of Observation	Activities undertaken
--	--

9.7. Programme with SeemaSurakshaBal/ BSF

Title of Programme	Date	No. of participants
--	--	--

9.8. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used
Semala Boys School	03.12.2021	Nutritional garden	Pen, pad, white board, leaflet, banner
S.S Balmandir	12.03.2021	Safe use of pesticide	Pen, pad, white board, leaflet, banner

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	Village waste decomposting, Village road cleaning, Tree plantation	7	475	---	---

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	Discussion and quiz competition on Mushroom cultivation and nutritional garden	5	67	--	--

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
01	Sujit Das	At. P.O-Badakumari, UV-2, Umerkote	Integrated Farming System
02	Mrs. Pratima Mishra	At.P.O-Umerkote, Nabarangpur	Mushroom Production
03	Sh. Jogeswar Naik	Vill-S Maliguda, P.O-Sindhigaon, Dist. Nabarangpur	Mushroom Spawn Unit. And Mushroom cultivation
04	Sh. Purna Chandra Gond	Vill.-Karmari, P.O-Jharigaon,	Integrated Farming System

05	Sh. Khagapati Bisoi	Nabarangpur Vill-BS Padar, P.O-Majhiguda, Nabarangpur	Integrated Farming System

9.12. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Instructional farm	72837.4	ICAR
2.	Mushroom cultivation unit	24,900	ICAR
3.	Polly house	65300	ICAR

9.13. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
01	Tribal Sub-Plan	Production of mushroom for revenue generation	ICAR	--	Mushroom Unit
02	Tribal Sub	Raising seedlings for fund generation	ICAR	--	Polly house
03	Tribal Sub	Production of organic product for fund generation	ICAR	--	Vermicompost Unit

9.14. Performance of Automatic Weather Station in KVK : N.A

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

9.15. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Odisha	Nabarangpur	Crop Production	5	125	ate onset of monsoon- neven and inadequate distribution of rainfall ong gap in rainfall- rolong dry spell arly cessation of rain fall

					arly onset of monsoon

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

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	Farmers Scientist interaction, training on millet cultivation, nutritional garden, mushroom cultivation	**--**	**27**	**23**	**50**

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

Natural Resource Management

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

Crop Management

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

Livestock and fisheries

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

Institutional interventions

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

Capacity building

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

Extension activities

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

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK

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

Award received by Farmers from the KVK district

Sl.	Name of the	Name of the	Year	Conferring Authority	Amount	Purpose

No.	Award	Farmer				
--	--	--	--	--	--	--

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

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

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

16. Integrated Farming System (IFS): N.A

Details of KVK Demo. Unit

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

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	Mushroom cultivation	1)Sanitisation, 2) Suitable climate, 3) Suitable method of cultivation, 4) Use of good quality spawn	Rs. 200/- per bed	280 nos.	

2	Backyard poultry	1. Improve breed (Kadaknath, Utkalshree, Sonali) 2. Vaccination 3. Improve feeding	Rs. 500/- per piece of bird	210 nos.	
3	Low cost Vermicompost production	1. Low cost poly vermibed 2. Portable	Rs. 7500/- per bed/year	30 nos.	
4	Varietal substitution of direct seeded rice CR Dhan 200	1. short duration (115 days) 2. Yield potential 3. Resistant to blast, neck blast	Rs. **38250 /ha with B:C 2.42**	10 nos.	

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

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

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

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

19. Information on NARI Project(if applicable) : N.A

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

						project

20. Specific programmes for the period

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

Sl. No.	Activity	No. of SC farmers/ stakeholders		
		Male	Female	Total
1	On- farm trials	13	0	13
2	Frontline demonstrations	47	13	60
3	No. of Training programmes for farmers	252	378	630
4	Farmers trained	252	378	630
5	No. of Training programmes for Extension Personnel	21	7	28
6	Extension Personnel trained	21	7	28
7	Participants in extension activities	178	231	409
8	Distribution of seed	12	3	15
9	Planting material distributed	17	12	29
10	Livestock strains and fingerlings distributed	0	0	0
11	Soil, water, plant, manures samples tested	103	0	103
12	Mobile agro-advisory provided to farmers	3015	39	3054
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
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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
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iv. Farmer Producer Organizations

a) General information

Sl. No.	Name & Address of FPO	Name &Contact No. of Head of FPO	No. of farmer members of FPO	Crop/ Enterprise dealt with by FPO	Kind of support provided by KVK in

							running/ starting of FPO (in brief)
			M	**F**	**T**		
1	**Pendrani Krushak Producer Company Limited, Umerkote (PKPCL)** UV-23, Anchala, GP-Ekamba, Umerkote, Nabarangpur, Odisha, Pin-764073		2,799	2,949	5,748	Maize trade, input business:- seed, fertilizer, pesticide business Maize quality check service Warehousing service to member farmers	1. Package of practices for Maize cultivation. 2. Skill development training on storage technology of maize grains. 3. Skill development training on rearing of honeybee
2	**Mauli Maa Maize MANDI Producer Company Limited, Raighar (MMPCL)**		2,767	920	3,687	Maize trade, input business:- seed, fertilizer, pesticide business Maize quality check service Warehousing service to member farmers	

b) Financial information

Name & Address of FPO	Date of Registration	FPO Registered (Y/N)	Application Submitted for Registration (Y/N)	No. of share-holding farmer members	Equity Amount Collected (Rs.)	Bank Account Opened (Y/N)	Board Reconstituted after attaining minimum membership (Y/N)
Pendrani Krushak Producer	16/04/2019	Y	**Y**	6.05 lakh /1156 farmers	29.43lakh	Y	Y

Company Limited, Umerkote (PKPCL) UV-23, Anchala, GP-Ekamba, Umerkote, Nabarangpur, Odisha, Pin-764073							
Mauli Maa Maize MANDI Producer Company Limited, Raighar (MMPCL)	23/04/2019	Y	Y	5.53 lakh/ 976 farmers	12.32 lakh	Y	Y

v. Nutri-gardens (Village wise)

Sl. No.	**Name of village**	**Name of crop**	**Area under the crop (acre)**	**No. of farmers**			**Whether bio-fortified variety of crop used (If yes, mention variety & crop)**
				M	**F**	**T**	
1	Nayakguda	Tomato, Chilli, Brinjal, Capsicum, Leafy vegetables,Cabbage, Radish, Carrot	40 cents.	0	7	7	Hyb. And indigenous var.
2	Managuda	Tomato, Chilli, Brinjal, Capsicum, Leafy vegetables,Cabbage, Radish, Carrot	30 cents.	0	11	11	Hyb. And indigenous var.
3	Bhamini	Tomato, Chilli, Brinjal, Capsicum, Leafy vegetables,Cabbage, Radish, Carrot	42 cents	0	13	13	Hyb. And indigenous var.
4	Chikalpadar	Tomato, Chilli, Brinjal, Capsicum, Leafy vegetables,Cabbage, Radish, Carrot	**35 cent**	0	10	10	Hyb. And indigenous var.

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
Nabarangpur	--	---	9	**102**	**33**	**135**	**--**	**--**	**---**	**-**

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

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)


ELEBRATION OF EVENT ON
OD AND NUTRITION FOR FARMERS
DER AZADI KA AMRIT MAHOTSAV
Dt - 26 August 2021
Venue - KVK Campus, Umerkote
RISHI VIGYAN KENDRA,NABARANGPUR, UMERKOTE


MEDP ON
HONEY BEE CULTIVATION
NABARD


International Year of Millets 2023
Campaign on Nutri-Garden and Tree Plantatio
17 September, 2021
2021.09.17 12:53


2019/12/16 13:20

Sd/-
Senior Scientist & Head
KVK, Nabarangpur
Odisha-764073

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