ANNUAL PROGRESS REPORT

January 2020 to December 2020

KVK, GAJAPATI, ODISHA

PROFORMA FOR ANNUAL REPORT2020 (January 2020 to December 2020)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
KVK, Gajapati	Office	FAX	
At/Po -R.Udayagiri, Odisha Pin-761016, Dist-Gajapati	06817240362		kvkgajapati.ouat@gmail.com gajapatikvk@yahoo.co.in

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

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

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Sangram Paramaguru	9937888736	9437492769	kvkgajapati.ouat@gmail.com gajapatikvk@yahoo.co.in

1.4. Year of sanction of KVK: 2005

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

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/ Temporary	Category (SC/ST/ OBC/ Others)
1	Senior Scientist& Head	Dr Sangram Paramaguru	Senior Scientist & Head	Agril. Extension	15600-39100 AGP-8000 Basic-24170	17.5.2018	Permanent	Others
2	Subject Matter Specialist	Dr. Rashmita Toppo	Scientist	Horticulture	15600-39,100 AGP-6000 Basic-19050	27.07.2015	Permanent	ST
3	Subject Matter Specialist	Mr. Dwarika Mohan Das	Scientist	Ag. Engg.	15600-39,100 AGP-6000 Basic-18320	31.10.2015	Permanent	Others
4	Subject Matter Specialist	Mr. Sanjib Kumar Mandi	Subject Matter Specialist	Agronomy	15600-39,100 AGP-5400 Basic-16880	20.08.2018	Permanent	ST
5	Subject Matter Specialist	-	-	-	-	-	-	-
6	Subject Matter Specialist	-	-	-	-	-	-	-
7	Subject Matter Specialist	-	-	-	-	-	-	-
8	Programme Assistant	-	-	-	-	-	-	-
9	Computer Programmer	Mr Manoj Kumar Sahu	Programme Assistant	Computer	9300-34,800 GP-4200 Basic-16900	27.01.2006	Permanent	Others
10	Farm Manager	-	-	-	-	-	-	-
11	Accountant / Superintendent	-	-	-	-	-	-	-
12	Stenographer	-	-	-	-	-	-	-
13.	Driver	Mr. Sampada Kumar Sethi	Driver cum Mechanic	-	5200-20,200 GP-1900 Basic-8580	01.08.2007	Permanent	SC
14.	Driver	Mr. Ranjan Kumar Pattnaik	Driver cum Mechanic	-	5200-20,200 GP-1900 Basic-7970	01.03.2011	Permanent	Others
15.	Supporting staff	Mr. Rama Chandra Behera	Peon cum watchman	-	4750-14680 GP-1500 Basic-6780	31.07.2008	Permanent	SC
16.	Supporting staff	Mr. Prakash Chandra Sethy	Peon cum watchman	-	4750-14680 GP-1500 Basic-5780	01.12.2015	Temporary	SC

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1
2.	Under Demonstration Units	0.2
3.	Under Crops	1.8
4.	Orchard/Agro-forestry	11.75
5.	Others with details	9.86
	Total	24.61

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					Totally completed	330	Under use	ICAR
2.	Farmers Hostel					Totally completed	250	Under Use	ICAR
3.	Staff Quarters (6)	Not yet started							
4.	Piggery unit								
5	Fencing								
6	Rain Water harvesting structure								
7	Threshing floor								
8	Farm godown								
9.	Dairy unit								
10.	Poultry unit					Totally completed	24	Under Use	RKVY
11.	Goatary unit								
12.	Mushroom Lab					Totally completed		Yet to start	State Govt.
13.	Mushroom production unit								
14.	Shade house								
15.	Soil test Lab					Totally completed	-	Under use	ICAR
16	Poly House					Totally completed	100	Under use	RKVY
17	Training hall					Totally completed	120	Under use	State Govt.
18	Vermicompost unit					Totally completed	22	Under use	RKVY

* 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
Mahindra Bolero	2017	800000	58599	Good Condition
Tractor	2006	450000	230 hrs	Good Condition
Motor Cycle	2010	49000	54000	Good Condition

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Equipments of soil lab	2016	3200000	Working	ICAR
Mushroom Spawn Unit	2010	2500000	Not started	RKVY
b. Farm machinery				
Pumpset	2016	10530	Working	ICAR
Self pumping pump	2016	3755	Working	ICAR
Bottom MB Plough	2017	17868	Working	ICAR
5 tyne Cultivator	2017	21635	Working	ICAR
Straight Tyne	2017	4354	Working	ICAR
Power Sprayer	2017	9685	Working	ICAR
c.AV Aids				
Amplifier, Mixer, Microphone, Speaker	2017	39802	Working	ICAR
Projector	2017	33937	Working	ICAR
Projector screen	2017	3580	Working	ICAR
Semi SLR camera	2017	20043	Working	ICAR
Display Board	2017	5028	Working	ICAR
White Board	2017	1885	Working	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Mini Tractor	2017	428425	Working	ICAR

1.8. Detailsof SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	29.12.2020	22	Popularization of intercropping or mixed cropping of maize with pulses in rainfed condition.	Maize+Cowpea intercropping has been undertaken in the FLD programme of Agronomy Discipline.	
			Demonstration of BPH and Sheath blight resistant rice varieties may be demonstrated.	BPH tolerant rice variety Hasanta has been conducted under the FLD programme.	
			For increasing productivity in important field crops new improved disease resistant varieties must be introduced in the district.		
			Popularization of biofertilizer, bio-pesticides and botanicals may be demonstrated and popularized in the district.	Trial has been made to incorporate biofertilizer, bio-pesticides and botanicals in the INM in Chilli during Kharif and Broccoli in Rabi 2020-21	

				and IPM in Kharif Maize.	
			Feedback on weather forecasting and reporting of different stages of crops.	Block level weather forecast is under progress through DAMU Project.	
			Training on new generation pesticides should be given to extension functionaries.	Awareness and Training programme has been undertaken on use of new generation pesticides and not using banned pesticides.	
			Nutrient rich Sweet potato varieties performing well in Gajapati condition may be popularized.	Three type of sweet potato varieties Kisan, Bhuja and Bhukrishna have been included under the OFT programme 2019-20 and 2020-21.	
			Popularization of nutri-rich vegetable and field crops should be taken up by KVK for nutritional security of tribal population.	Nutrient rich vegetables are being popularised in the district through establishment of nutritional garden programme.	
			Conduct training on quality planting material production at farmers' level.	Quality planting materials are being provided through KVK RF activities and Biotech KISAN project.	
			Training programme on new farm machineries.	Training and demonstration programme on improved manual, bullock drawn and power operated farm machineries has been conducted.	
			Demonstration of technologies for drudgery reduction of farm women should be taken up by KVK.	For drudgery reduction of farm women various improved machineries like OUAT developed Electric Maize and Ragi Thresher, manual vegetable Transplanter have been conducted during the year 2019-20 and 2020-21.	
			Mushroom cultivation for rural youths and farm women may be emphasized in the district.	Promotion of mushroom production in the district is under progress through Biotech KISAN project.	
			Provision of RSETI training to rural youth may be achieved in collaboration with KVK for bee keeping, bee box making and colony rearing in the district.	Three collaborative training has been conducted in collaboration with RSETI in the year 2019-20 and 2020-21.	
			Demonstration units in the KVK Campus should showcase the technologies suitable for the agro-ecological situation of the district including different	Demonstration units are well managed and different types of poultry breeds like Kadaknath, Rainbow Rooster and Vanaraj are kept in the	

			poultry breeds and their rearing.	poultry demo unit of KVK.	

** 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 (2018-19)

Sl. no.	Item	Information
1	Major Farming system/enterprise	Rice-fallow, Rice-Paira Greengram/Blackgram, Maize –fallow, Ragi-Fallow
2	Agro-climatic Zone	North Eastern Ghat Zone
3	Agro ecological situation	AES-I - Red loam soil, Low rainfall, moderate elevation (300-500 m) Moderate irrigation AES-II-Black forest & red loam soil, Moderate rainfall, high irrigation AES-III-Laterite soil, moderate rauinfall, high irrigation
4	Soil type	Red Loamy soils, Laterite Soils, Black soils
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Rice-39.81 q/ha, Maize-35 q/ha, Ragi-15 q/ha Greengram-15 q/ha, Blackgram-16 q/ha, Arhar-25 q/ha Groundnut -40 q/ha, Sesame-8q/ha Brinjal-152 q/ha, Cauliflower-145.6 q/ha, Chilli-8.1
6	Mean yearly temperature, rainfall, humidity of the district	Max Temp -39^0 C Minimim Temp-10^0 C Rainfall-1423 mm, Relative Humidity-78-85%
7	Production of major livestock products like milk, egg, meat etc.	Milk-20.70 MT, Egg-154 Lakhs, Meat-1923 MT

Note: Please give recent data only

2.b. Details of operational area / villages (2018-19)

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	-	R.Udayagiri	R.Udayagiri	Rice, Maize, Ragi, Mango	Acidic Soil, Rice-stem borer, Gall midge, BPH,Blast, Sheath Blight Maize-Imbalanced use of fertilizer Mango-Stone weevil	Soil Health Management, Varietal replacement with high yielding varietiesIntegrated disease and pest management, Integrated nutrient Management,
2		R.Udayagiri	Alama, Phuka	Rice, Maize, vegetables, mango , marigold, poultry	Acidic Soil, Rice-stem borer, Gall midge, BPH, Blast, Sheath Blight Maize-Imbalanced use of fertilizer	Soil Health Management, Varietal replacement with high yielding varieties Integrated disease and pest management,

					Mango-Stone weevil Vegetable- Imbalance fertilizer application, Disease and pest incidence, Mite infestation in marigold and not following GAP(pinching), RD disease low body weight in poultry	Integrated nutrient Management**,** Crop diversification to high value vegetables, Scientific production technology for commercial flower, vaccination & Feed management
3		R.Udayagiri	Sabarpalli, Anukampa, Phatachencheda, Kankadaguda	Rice, Ragi Vegetable, Cashew nut , Mango, Poultry	Acidic Soil,Rice-stem borer, Gall midge, BPH, Blast, Sheath Blight Vegetable- Imbalance fertilizer application, Disease and pest incidence, Mango-Stone weevil, Fruit drop and fruitfly Tea mosquito bug in cashew, RD disease low body weight in poultry	Soil Health Management,Varietal replacement with high yielding varieties Integrated disease and pest management, Integrated nutrient Management, Crop diversification to high value vegetables, Orchard management vaccination & Feed management
4		Mohana	P.Govindpur, Kaithpada	Rice, Maize, Ragi, Blackgram, Greegram vegetables	Acidic Soil, Rice-stem borer, Gall midge, BPH,Blast, Sheath Blight Maize-Imbalanced use of fertilizer, Pod borer and powdery mildew in greengram & blackgram, Vegetable- Imbalance fertilizer application, Disease and pest incidence	Soil Health Management, Varietal replacement with high yielding varieties Integrated disease and pest management, Integrated nutrient Management, Crop diversification to high value vegetables,
5		Mohana	Kesara	Rice, Maize, Ragi, Arhar, Vegetables	Acidic Soil,Rice-stem borer, Gall midge, BPH,Blast, Sheath Blight Maize-Imbalanced use of fertilizer, Pod borer in Arhar Vegetable- Imbalance	Soil Health Management,Varietal replacement with high yielding varieties Integrated disease and pest management, Integrated nutrient Management, Crop

					fertilizer application, Disease and pest incidence	diversification to high value vegetables
6		Mohana	Akili, Jubagaon, Kharidhepa, Manikpur, Govindpur	Rice, Maize, Ragi, Blackgram, Greegram vegetables, mango, Poultry	Acidic Soil,Rice-stem borer, Gall midge, BPH,Blast, Sheath Blight Maize-Imbalanced use of fertilizer, Pod borer and powdery mildew in greengram & blackgram, Vegetable-Imbalance fertilizer application, Disease and pest incidence Mango-Stone weevil, Fruit drop and fruitfly, RD disease low body weight in poultry	Soil Health Management, Varietal replacement with high yielding varieties Integrated disease and pest management, Integrated nutrient Management, Crop diversification to high value vegetables, Orchard Management, vaccination & Feed management
7		Nuagada	Titising	Rice, Ragi, Vegetables, mango, Sunflower	Acidic Soil, Rice-stem borer, Gall midge, BPH,Blast, Sheath Blight Vegetable-Imbalance fertilizer application, Disease and pest incidence Mango-Stone weevil, Fruit drop and fruitfly, Head borer infestation & Imbalance fertilizer application	Soil Health Management, Varietal replacement with high yielding varieties Integrated disease and pest management, Integrated nutrient Management, Crop diversification to high value vegetables, Orchard Management
8		Rayagada	Landusahi, Koinpur	Rice, Maize, Vegetables, Mango, Cashew nut, Poultry	Acidic Soil, Rice-stem borer, Gall midge, BPH, Blast, Sheath Blight Maize-Imbalanced use of fertilizer, Vegetable-Imbalance fertilizer application, Disease and pest incidence Mango-Stone weevil, Fruit drop and fruitfly, Tea	Soil Health Management, Varietal replacement with high yielding varieties Integrated disease and pest management, Integrated nutrient Management, Crop diversification to high value vegetables, Orchard Management, vaccination & Feed management

					mosquito bug in cashew RD disease low body weight in poultry	
9		Gumma	Padampur, Kujasing, Adamguda, S.Kurlunda	Rice, Greengram, Blackgram, Groundnut, Sesame,poultry	Acidic Soil,Rice-stem borer, Gall midge, BPH,Blast, Sheath Blight Pod borer and powdery mildew in greengram & blackgram, RD disease low body weight in poultry	Soil Health Management, Varietal replacement with high yielding varieties Integrated disease and pest management, Integrated nutrient Management, vaccination and Feed management
10		Gumma	Tarabha	Rice, Greengram, Blackgram, Groundnut, Sesame, poultry , Vegetable	Acidic Soil,Rice-stem borer, Gall midge, BPH,Blast, Sheath Blight Pod borer and powdery mildew in greengram & blackgram, Vegetable-Imbalance fertilizer application, Disease and pest incidence RD disease low body weight in poultry,	Soil Health Management, Varietal replacement with high yielding varieties Integrated disease and pest management, Integrated nutrient Management, vaccination and Feed management, Vegetable- Crop diversification to high value vegetables
11		Gosani	Vanna, Budura	Rice, Greengram, Blackgram, Groundnut, Sesame, Vegetable	Acidic Soil,Rice-stem borer, Gall midge, BPH,Blast, Sheath Blight Pod borer and powdery mildew in greengram & blackgram, Vegetable-Imbalance fertilizer application, Disease and pest incidence	Soil Health Management, Varietal replacement with high yielding varieties Integrated disease and pest management, Integrated nutrient Management, Vegetable- Crop diversification to high value vegetables

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2018-19) for its development and action plan

Name of village	Block	Action taken for development
R.Udayagiri	R.Udayagiri	OFT, FLD, Training
Alama	R.Udayagiri	OFT, FLD, Training
Phuka	R.Udayagiri	OFT
Sabarpalli	R.Udayagiri	OFT, FLD, Training
Anukampa	R.Udayagiri	FLD, Training
Phatachencheda	R.Udayagiri	FLD, Training
Kankadaguda	R.Udayagiri	OFT, FLD, Training
P.Govindpur	Mohana	OFT, FLD, Training
Kaithpada	Mohana	OFT, FLD, Training
Kesara	Mohana	OFT, FLD, Training
Jubagaon	Mohana	OFT, FLD, Training
Akili	Mohana	FLD, Training
Govindpur	Mohana	Training
Manikpur	Mohana	FLD, Training
Kharidhepa	Mohana	FLD, Training
Titisingh	Nuagada	OFT, FLD, Training
Landusahi	Rayagada	OFT, FLD, Training
Koinpur	Rayagada	FLD, Training
Padampur	Gumma	FLD, Training
Kujasing	Gumma	CFLD, Training
Adamguda	Gumma	CFLD, Training
S.Kurlunda	Gumma	CFLD, Training
Tarabha	Gumma	CFLD, Training
Vanna	Gosani	FLD, Training
Budura	Gosani	FLD, Training

Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	**Assessment of Improved Ragi Varieties in Kharif**
2.	Problem diagnosed	Low yield due to cultivation of local variety
3.	Details of technologies selected for assessment/refinement	FP (TO_1) -cultivation of local variety Bada Mandia TO_2 –Cultivation of Arjuna (OEB-526) TO_3 - Cultivation ofKalua (OEB- 532)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT 2015-16
5.	Production system and thematic area	Varietal introduction
6.	Performance of the Technology with performance indicators	Plant height, no. of effective tillers/clump and panicle length Yield (q/ha), and B:C ratio
7.	Final recommendation for micro level situation	Arjun recorded the highest seed yield.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Eagerly accepted the technology

Thematic area: *Varietal introduction*
Problem definition: Low yield due to cultivation of local variety
Technology assessed: **Assessment of Improved Ragi Varieties in Kharif**

Results:
Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of fingers per panicle	Test wt. (100 grain wt.)						
FP (TO_1) - cultivation of local variety Bada Mandia	7	4.5	5	0.32	-	8.6	16560	25800	9240	1.56
TO_2 – Cultivation of Arjuna (OEB-526)	7	11.6	7	0.325	-	15.26	22786	48821	26037	2.14
TO_3 - Cultivation ofKalua (OEB-532)	7	10.6	6.5	0.324	-	13.94	22300	44617	22317	2.0

OFT-2

1.	Title of On farm Trial	**Assessment of management of Fall Army Worm in maize**
2.	Problem diagnosed	Low yield due to severe Fall Army worm attack as a sporadic pest
3.	Details of technologies selected for assessment/refinement	FP -Spray with Profenohos @ 1l/ha after observation of pest infestation TO_1-Spraying of Azadiractin 1500 ppm @ 5ml/litre, release of T. chilonis parasite @ 20000/ha at 4-5 days and weekly interval TO_2 -Apply Beauveria bassiana @ 1l/ha followed by application of Chlorpyriphos 1.5 DP thickly in the field bund for migrating from one field to another.

4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT 2018-19
5.	Production system and thematic area	Plant Protection
6.	Performance of the Technology with performance indicators	No. of plants affected/sq. m2, Yield (q/ha),Net Return and B:C ratio
7.	Final recommendation for micro level situation	Spraying of Azadiractin 1500 ppm @ 5ml/litre, release of *T. chilonis* parasite @ 20000/ha at 4-5 days and weekly interval gave better result
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Eagerly accepted the technology

Thematic area: Plant Protection
Problem definition: Low yield due to severe Fall Army worm attack as a sporadic pest
Technology assessed: **Assessment of management of Fall Army Worm in maize**
Results:

Technology option	No. of trials	No. of plants affected/ sq.m	Pest Infestation (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP (TO_1) -Spraying with Profenophos	7	4.5	40.9	35.3	40943	56480	15537	1.38
TO_2 – Spraying of Azadiractin and *T. chilonis*	7	1.2	10.9	52.8	40971	84480	43509	2.06
TO_3 - Apply *Beauveria bassiana*	7	2.0	18.2	51.6	40771	82560	41789	2.03

OFT-3

1.	Title of On farm Trial	Assessment of performance of Sweet Potato varieties
2.	Problem diagnosed	Low profitability due to low yield potential of local cultivar
3.	Details of technologies selected for assessment/refinement	**TO_1** :Bhuja-Duration 105-110 days, Total starch- 16-17%, Total sugar- 2.5-2.8 % , β – carotene – 5.5-6.5 mg/100g, Yield – 22 t/ha **TO_2**: Bhu Krishna - Duration 105-110 days, Total starch- 23-24%, Total sugar- 1.9-2.2 % , Anthocyanin– 85-90 mg/100g, Yield – 22 -25 t/ha.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CTCRI, 2016
5.	Production system and thematic area	Kharif, rainfed-upland, intensive culture, vegetable –fallow cropping system Yield increment
6.	Performance of the Technology with performance indicators	Yield (q/ha), B:C ratio,
7.	Final recommendation for micro level situation	Both the varieties of Sweet potato perfomed at par with higher yield that of local cultivar
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	Acceptability Bhu Krishna variety of Sweet potato is comparatively lower as typical aroma and awareness on health benefits of is needed

Thematic area: Yield increment in horticultural crops

Problem definition: Low profitability due to low yield potential of local cultivar

Technology assessed: Assessment of performance of Sweet Potato varieties

Results:
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
		Tuber weight (g)	Tuber yield (kg/ sq.m.)	-						
Local cultivar of sweet potato	7	186.28	1.60		-	160.2	41320	64060.24	22740.24	1.55
TO_1 :Bhuja	7	176.74	1.93		-	192.7	42662.86	77099.39	34436.54	1.81
TO $_2$: Bhu Krishna	7	174.19	1.80		-	180.0	42548.00	71993.36	29444.79	1.69

OFT-4

1.	Title of On farm Trial	Assessment of INM in Broccoli
2.	Problem diagnosed	High cost of production and soil health degradation due to improper use of chemical fertilizer
3.	Details of technologies selected for assessment/refinement	**TO_1** :Application of vermicompost @ 2.5 t/ha +1/2 recommended dose of NPK (150:50:100 kg/ha) of boric acid + MnSo4 @ 100 ppm each, three sprays at 10 days interval from 30 days after transplanting **TO $_2$**: Combined application of RDF% NPK (150:50:100 kg/ha) + FYM @ 5t/ha+ Vermicompost@2.5t/ha and bio-fertilizers (Azotobacter + Azospirillum + PSB)@2kg each/ha
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP in vegetable crops, Bhubaneswar, Annual Report-2013-14
5.	Production system and thematic area	Irrigated upland, Vegetable-Vegetable, Rice-vegetable Integrated nutrient management
6.	Performance of the Technology with performance indicators	Yield (q/ha), B:C ratio,
7.	Final recommendation for micro level situation	Integrated nutrient management including biofertilizer may reduce cost of production as well as result good organic carbon content of soil when

8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	Accepted by the farmers

Thematic area: Integrated nutrient management

Problem definition: High cost of production and soil health degradation due to improper use of chemical fertilizer

Technology assessed: Assessment of INM in Broccoli

Results:

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**
		OC%	**Bud weight (g)**	**-**						
Imbalanced use of chemical fertilizer	7	0.72	96.4		-	136.3	52156	81777	29621	1.57
TO_1 : Application of vermicompost @ 2.5 t/ha +1/2 recommended dose of NPK (150:50:100 kg/ha) of boric acid + MnSo4 @ 100 ppm each, three	7	0.72	131.1		-	191.6	52956	114977	62021	2.18

sprays at 10 days interval from 30 days after transplanting										
TO $_2$: Combined application of RDF% NPK (150:50:100 kg/ha) + FYM @ 5t/ha+ Vermicompost@2.5t/ha and bio-fertilizers (Azotobacter + Azospirillum + PSB)@2kg each/ha	7	0.74	127.9		-	173.2	52256	103920	51664	2.00

OFT-5

1.	Title of On farm Trial	Assessment of Drip and Fertigation in Okra for enhancing yield and water productivity
2.	Problem diagnosed	Low water productivity, low production due to water scarcity
3.	Details of technologies selected for assessment/refinement	FP Surface Irrigation + RDF (Soil application) T O1 :Drip + RDF (Soil application) T O 2: Drip + RDF (Fertigation)

4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**Source** : IIWM, Bhubaneswar, 2017-18
5.	Production system and thematic area	Water management and micro-irrigation
6.	Performance of the Technology with performance indicators	Water use efficiency,, B:C Ratio and Additional income over additional investment
7.	Final recommendation for micro level situation	T O 2: Drip + RDF (Fertigation)
8.	Constraints identified and feedback for research	Use of both online and inline drip with mulching may be tested
9.	Process of farmers participation and their reaction	Accepted by the farmers

Thematic area: Agricultural Engineering (Water management)

Problem definition: Water stress

Technology assessed: Drip fertigation in OKRA

Table:

Results:

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**
		Gross yield (q/ha)		**-**						
Okra under furrow irrigation	7	74				74	34,000	74000	40,000	2.17
Okra under Drip irrigation and RDF application	7	94				94	40,600	94000	48400	2.31
Okra under Drip irrigation and RDF fertigation	7	101				110	42,700	110000	54300	2.57

OFT-6

1.	Title of On farm Trial	**Assessment of maize de-husker cum sheller in *Kharif***
2.	Problem diagnosed	Labour intensive, Drudgery prone, Time consuming
3.	Details of technologies selected for assessment/refinement	1 hp electric motor operated maize sheller cum dehusker
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on UAE, OUAT
5.	Production system and thematic area	Small farm mechanization
6.	Performance of the Technology with performance indicators	Capacity, Cleaning efficiency
7.	Final recommendation for micro level situation	Use of maize sheller cum dehusker for shelling of maize by the small and marginal farmers
8.	Constraints identified and feedback for research	High drudgeries involved in manual maize shelling
9.	Process of farmers participation and their reaction	Accepted by the farmers

Thematic area:

Problem definition: Small farm mechanization

Technology assessed: Assessment of electricity operated maize sheller cum dehusker

Results:
Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Field capacity (kg/h)	Threshing efficiency (%)	Cleaning efficiency (%)	Cost of shelling (Rs/ha)
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
Manual Threshing of Maize	7	-	-	-	-	-	21	98%	99%	10500
Use of hand operated maize sheller	7	-	-	-	-	-	53	80%	82%	3500
Use of electric maize sheller	7	-	-	-	-	-	94	85%	87%	1580

OFT- 7

1.	Title of On farm Trial	**Assessment of different planting time for better market price of Tomato in Kharif**
2.	Problem diagnosed	Distress sale of Tomato in rabi season
3.	Details of technologies selected for assessment/refinement	FP (TO_1) -Farmers generally plant the seedling in the month of October TO_2 –Planting of seedling 15 days before onset of normal planting period (15^{th} September) TO_3 - Planting of seedling 15 days after completion of normal planting period (15^{th} November)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT 2018-19
5.	Production system and thematic area	Market Linkage
6.	Performance of the Technology with performance indicators	Plant height, no. of effective tillers/clump and panicle length Yield (q/ha), and B:C ratio
7.	Final recommendation for micro level situation	Planting of seedling 15 days before onset of normal planting period (15^{th} September) gives better market price

8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Eagerly accepted the technology

Thematic area: Market Linkage
Problem definition: Distress sale of Tomato in rabi season
Technology assessed: **Assessment of different planting time for better market price of Tomato in Kharif**
Table:

Technology option	**No. of trials**	**Yield component**			**Disease/ insect pest incidence (%)**	**Yield (q/ha)**	**Cost of cultivation (Rs./ha)**	**Gross return (Rs/ha)**	**Net return (Rs./ha)**	**BC ratio**
		No. of effective tillers/hill	**No. of fingers per panicle**	**Test wt. (100 grain wt.)**						
FP (TO_1) - Farmers generally plant the seedling in the month of October	20	-	-	-	-	150 q/h	60000	150000	90,000/-	2.5
TO_2 –Planting of seedling 15 days before onset of normal planting period (15th September))	20	-	-	-	-	145 q/ha	60000	174000	1,14,000/-	2.9
TO_3 - Planting of seedling 15 days after completion of normal planting period (15th November	20					154 q/ha	60000	231000	1,71,000/-	3.85

3.2 **Achievements of Frontline Demonstrations**

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Rice	Varietal Introduction	Demonstration of BPH Tolerant Rice Variety Hasanta	1	1	0	0	9	1	0	0	9	1	10	NA
2.	Rice	Weed Management	Demonstration on Herbicides for Weed Management in Transplanted Rice in Kharif. Pre-emergence application of Pendimethalin 38.7 SC @ 750ml/ha followed by post emergence application of Bispyribac Sodium @ 25 g ai/ha at 21 DAT.	1	1	0	0	9	1	0	0	9	1	10	NA
3.	Maize + Cowpea	Intercropping	Demonstration of Maize + Cowpea (2:2) Intercropping in Kharif. Cultivation of two rows of maize (30 cm X 30 cm) with two rows of cowpea var. Kashi Kanchan (bushy type) in 30 cm X 30 cm spacing	1	1	0	0	9	1	0	0	9	1	10	NA
4.	Onion	Off-season vegetables	Demonstration on Kharif onion var. Arka Kalyan	1	1			2	3			2	3	5	NA

5.	Chilli	Integrated nutrient management	Demonstration of INM in Chilli	1	1			4	1			4	1	5	NA
6.	Tissue Culture Banana	Integrated nutrient management	Demonstration on INM in TC Banana in rabi	1	1			3	2			3	2	5	NA
7.	Mango	Integrated Pest Management	Demonstration on IPM for fruit fly in mango in rabi	1	1			2	3			2	3	5	NA
8.	Rice	Demonstration on Bullock drawn Puddler in Kharif	Use of Bullock drawn Puddler for puddling paddy fields	1	1			10				10		10	NA
9.	Ragi	Demonstration on Ragi Thresher cum Pearler in Kharif	Use of Ragi Thresher cum Pearler for threshing of Ragi	-	-			5	5			5	5	10	NA
10.	Vegetables	Demonstration on Single row Vegetable Transplanter in Rabi	Use of Single row Vegetable Transplanter for rice Transplanting	0.4	0.4				10				10	10	NA
11.	Rice	Technology Adoption	Demonstration of effectiveness short videos in technology adoption	2	2	0	0	20	**0**	0	0	20	0	20	NA

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					
Rice	Kharif 2020	Rainfed medium, Rice-Greengram	Clay loam	356.2	22.9	331.4	Fallow	25.06.2020	02.11.2020	Kharif - 1143.3 mm	85
Rice	Kharif 2020	Rainfed medium, Rice-Groundnut	Clay loam	358.6	22.1	328.1	Groundnut	28.06.2020	20.11.2020	Kharif - 1143.3 mm	85

Maize + Cowpea	Kharif 2020	Rainfed upland, Maize-fallow	Red loam and laterite	264.1	21.6	283.7	Fallow	21.07.2020	12.11.2020	Kharif - 1143.3 mm	85
Onion	Kharif 2020	Rainfed uplands	Red loam and laterite	456.0	22.8	321.4	Fallow	01.07.2020	05.11.2020	Kharif - 1143.3 mm	85
Chilli	Kharif 2020	Irrigated medium land	Clay loam	358.6	22.1	328.1	Fallow	15.09.2020	28.12.2020	Kharif - 1143.3 mm	85
Tissue Culture Banana	Kharif 2020	Irrigated up and medium land	Red loam and laterite	264.1	21.6	283.7	Fallow	21.06.2020	-	Kharif - 1143.3 mm	85
Mango	Kharif 2020	Rainfed orchards	Red loam and laterite	425.2	32.9	280.4	Fallow	-	28.05.2020	Kharif - 1143.3 mm	85
Rice	Kharif 2020	Irrigated/rain fed medium and low lands	Clay loam	485.5	46.1	326.8	Fallow	15.07.2020	22.11.2020	Kharif - 1143.3 mm	85
Ragi	Kharif 2020	Rainfed uplands	Loam	222.1	14.6	263.7	Fallow	16.06.2020	10.09.2020	Kharif - 1143.3 mm	85
Vegetables	Kharif 2020	Rainfed uplands	Red loam and laterite	485.2	38.6	375.2	Fallow	28.06.2020	25.10.2020	Kharif - 1143.3 mm	85
Rice	Kharif 2020	Rainfed medium, Rice-Greengram	Clay loam	346.2	1989	321.4	Fallow	23.06.2020	07.11. 2020	Kharif - 1143.3 mm	85

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

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Groundnut	Crop Protection	Application of post emergence herbicide Imazethapuyr 10 % SL @ 750 ml/ha at 20-25 DAS	10	1	Crop is in pod development stage			Crops are in pod development stage							
Total			10	1											

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

Pulses

Frontline demonstration on pulse crops

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

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

Other crops

Crop	Thematic area	Name of the	No. of	Area	Yield (q/ha)	% chan	Other parameters	*Economics of demonstration (Rs./ha)	*Economics of check (Rs./ha)

		technology demonstrated	Farmer	(ha)	Demonstration	Check	ge in yield	Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Onion	Off-season vegetables	Demonstration on Kharif onion var. Arka Kalyan	5	1	306.88	243.28	26.47	(Fruit weight (g)) 98.32	(Fruit weight (g)) 48.32	53646	153440	99794	3.0	53190	121640	68450	2.3
Chilli	Integrated nutrient management	Demonstration of INM in Chilli	5	1	152.78	108.22	42.28	(Fruit weight (g)) 24.64	(Fruit weight (g)) 14.26	53896	229184.25	175288.25	4.3	53440	162324	108884	3.0
Tissue Culture Banana	Integrated nutrient management	Demonstration on INM in TC Banana in rabi	5	1	247.2	182.6	36.2	(Fingers/ hand) 14.92	(Fingers/ hand) 12.64	47040.00	73037.44	25997.44	1.6	65020.00	123620.80	58600.80	1.9
Mango	Integrated Pest Management	Demonstration on IPM for fruit fly in mango in rabi	5	1	Continuing	Continuing	-	-	-	-	-	-	-	-	-	-	-
Vegetables	Demonstration on Single row Vegetable Transplanter in Rabi	Use of Single row Vegetable Transplanter for rice Transplanting	10	0.4	-	-	-	Field capacity 1010 seedlings transplanted per hour	Field capacity 680 seedlings transplanted per hour	50800	230050	174250	4.52	53000	162500	109500	3.06
Total			30	4.4													

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	Enterprise development															
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)																
Total																

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

** BCR= GROSS RETURN/GROSS COST

Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women					
Pregnant women					
Adolescent Girl					
Other women					
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			
Bullock Drawn puddler	Rice	Bullock Drawn puddler for puddling in rice	10	1	Field capacity 0.093	Field capacity 0.019 ha/h	80%	40	12000
Electric Operated ragi thresher cum pearler	Ragi	Electric Operated ragi thresher cum pearler	10	-	Capacity 66 kg/ha	Capacity 20 kg/ha	70%	35	10500
Manual Vegetable Transplanter	Vegetables	Manual Vegetable Transplanter	10	0.4	Field capacity 1010 seedlings transplanted per hour	Field capacity 680 seedlings transplanted per hour	32%	21	6300

*** 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.	Rice	Rice variety Hasanta is accepted by farmers and satisfied with this variety as it has high tolerance to BPH.
2.	Rice	Integrated approach of chemical weed management among the farmers are getting popular with pre (Pendimethalin) and post emergence (Bispyribac Sodium) herbicide application.
3.	Rice	Bullock drawn Puddler for puddling operation is accepted by the farmers and they show interest on use of the machine as it has more field working capacity.
4.	Ragi	Ragi thresher cum pearler has been accepted by the tribal community of the district as Ragi is the staple food of the community and Ragi threshing and cleaning needs high labour involvement
5.	Maize + Cowpea	Maize based intercropping system is accepted due to more net income and restoration of soil fertility
6.	Onion	Off season (Kharif onion var. Arka Kalyan) vegetable cultivation are getting more popular as it gains high returns among the farmers.
7.	Vegetables	Use of Single Row Vegetable Transplanter has high working capacity and helps in reduction of drudgery, that's why farmers preferred this implement.

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	22.1.2021, 25.2.2021, 25.2.2021	3	150	CFLD on Pulses (Greengram & Blackgram) and Oilseeds (Groundnut)
2.	Farmers Training	7.11.2020, 21.12.2020	3	75	
3.	Media coverage				
4.	Training for extension functionaries				

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2020and Rabi 2020-21:

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.	Greengram	Greenmoong	5.3	6.2	5.08	10	Greengram var. IPM 02-14 1.Seed rate of 20 kg per ha 2.Seed treatment with *Rhizobium sp.*@ 20g/kg 3.Post emergence application of Quizalofop Ethyl 5% EC @ 1.5 ml/l 4.Plant Protection to control pod borer application of Emamectin Benzoate 5 % SG @ 0.4 g/l 5.Foliar spray of water soluble NPK (19:19:19) at vegetative stage 6. Foliar application of 0.1 % Boron at flowering stage	25	10	7.8	6.4	7.1	14.52	39.76	40.85

2.	Blackgram	Green Biri	3.1	3.6	3.2	8	Blackgram var. Vallab Urd1 1.Seed rate of 20 kg per ha 2. Seed treatment with *Rhizobium sp.*@ 20g/kg 3. Post emergence application of Quizalofop Ethyl 5% EC @ 1.5 ml/l 4. Plant Protection to control pod borer application of Emamectin Benzoate 5 % SG @ 0.4 g/l 5. To control aphid spraying of Imidacloprid 17.8% SL @ 0.3ml/l 6. Foliar spray of water soluble NPK (19:19:19) at vegetative stage 7. Foliar application of 0.1 % Boron at flowering stage	25	10	5.7	3.8	4.75	31.95	48.44	68.42
3.	Groundnut	Devi	N/A	680	867	3000	1.Line sowing (30 X 10 cm) 2.Seed treatment with Carbendazim + mancozeb @ 2g/kg seed 3.Augmented release of	25	10	Crops in pod development stage					

							Tichogramma chilonis@ 5 Cards/ha 4. Installation of Pheromone trap @ 25 pcs/ha 5. Use of Yellow Sticky trap @ 10pcs/ha, To control aphid - 6. Spraying of Neem Oil 1500 ppm @ 5ml/l 7. Application of Imidacloprid 17.8% SL @ 0.3ml/l 8. Post emergence application of Imazethapyr 10% SL @ 1.5 ml/l to control weeds 9.To control Tikka disease application of Carbendazim 12% + Mancozeb 63% WP @ 2g/l 10. Foliar spray of Water soluble NPK (19:19:19) @ 20g/l 11. Spraying of zinc sulphate (12%) @ 5g/l at reproductive stage 12. Application of Boron (20%) @ 1g/l of water at flowering stage								

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:Cratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:Cratio
1	Greengram var. IPM 02-14 1.Seed rate of 20 kg per ha 2.Seed treatment with *Rhizobium sp.*@ 20g/kg 3.Post emergence application of Quizalofop Ethyl 5% EC @ 1.5 ml/l 4.Plant Protection to control pod borer application of Emamectin Benzoate 5 % SG @ 0.4 g/l 5.Foliar spray of water soluble NPK (19:19:19) at vegetative stage 6. Foliar application of 0.1 % Boron at flowering stage	23000	37100	14100	1.61	26000	49700	29800	1.91
2	Blackgram var. Vallab Urd1 1.Seed rate of 20 kg per ha 2. Seed treatment with *Rhizobium sp.*@ 20g/kg 3. Post emergence application of Quizalofop Ethyl 5% EC @ 1.5 ml/l 4. Plant Protection to control pod borer application of Emamectin Benzoate 5 % SG @ 0.4 g/l 5. To control aphid spraying of Imidacloprid 17.8% SL @ 0.3ml/l	14000	21700	7700	1.55	17000	33250	16250	1.96

	6. Foliar spray of water soluble NPK (19:19:19) at vegetative stage 7. Foliar application of 0.1 % Boron at flowering stage								

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	Greengram	7100	460	70	30	120	Education, cultivation, food & medical, Home	3
2	Blackgram	4750	300	70	40	80	Education, cultivation, food & medical	2

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	1.Line sowing (30 X 10 cm) 2.Seed treatment with Carbendazim + mancozeb @ 2g/kg seed 3.Augmented release of *Tichogramma chilonis*@ 5 Cards/ha 4. Installation of Pheromone trap @ 25	Yes	8.5 out of 10	90%	No	Yes	N/A

	pcs/ha 5. Use of Yellow Sticky trap @ 10pcs/ha, To control aphid - 6. Spraying of Neem Oil 1500 ppm @ 5ml/l 7. Application of Imidacloprid 17.8% SL @ 0.3ml/l 8. Post emergence application of Imazethapyr 10% SL @ 1.5 ml/l to control weeds 9.To control Tikka disease application of Carbendazim 12% + Mancozeb 63% WP @ 2g/l 10. Foliar spray of Water soluble NPK (19:19:19) @ 20g/l 11. Spraying of zinc sulphate (12%) @ 5g/l at reproductive stage 12. Application of Boron (20%) @ 1g/l of water at flowering stage						

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Greengram var IPM 02-14 is high yielding and resistant to YMV	Yield performance is good but tolerant to YMV	Seed quality is better	Quite satisfied (more infection to YMV)
Blackgram var Vallab Urd1 is high yielder and tolerant to YMV	Yield performance is good	Good seed quality	Farmers are satisfied with the variety

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmers attended
1	Training – Greengram	07.11.2020 at D. Katuru	25
2	Field Day - Greengram	25.02.2021 at D. Katuru	50
3	Training – Blackgram	21.12.2020 at Kailashguda	25
4	Field Day - Blackgram	25.02.2021 at Kailashguda	50
5	Training – Groundnut	22.1.2021 at Tarava	25
6	Field Day - Groundnut	09.2.2021 at Tarava	50
7	Field Day - Groundnut	24.3.2021 at Tarava	50

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

1. CFLD on Pulses (Greengram)

	
Vegetative Stage	Reproductive Stage

H. Farmers' training photographs

	

I. Quality ActionPhotographs of field visits/field days and technology demonstrated.

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

2. CFLD on Pulses (Blackgram)

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<tr>
<td>Vegetative Stage</td>
<td>Reproductive Stage</td>
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K. Farmers' training photographs

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

M. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Greengram	i) Critical input	80000	80626	0
	ii) TA/DA/POL etc. for monitoring	10000	0	0
	iii) Extension Activities (Field day)		6474 (including Audit)	0

	iv)Publication of literature		2900	0
	Total	90,000/-	90,000/-	0
Blackgram	i) Critical input	80000	80614	0
	ii) TA/DA/POL etc. for monitoring	10000	0	0
	iii) Extension Activities (Field day)		6051 (including Audit)	0
	iv)Publication of literature		3335	0
	Total	90,000/-	90,000/-	0

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													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	2							27	23	50	27	23	50
Water management													
Enterprise development													
Skill development													
Yield increment	2							30	20	50	30	20	50
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising	2							33	17	50	33	17	50

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
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and Pruning													
b) Fruits													
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, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility 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 and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any Goat farming													
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													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems	2							42	8	50	42	8	50
Use of Plastics in farming practices													

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 of small tools and implements	4							29	71	100	29	71	100
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology	1							10	15	25	10	15	25
Others, if any													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
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, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													

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
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
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, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	13	0	0	0	0	0	0	171	154	325	171	154	325

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
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production	1	0	0	0	0	0	0	14	6	20	14	6	20
Production of organic inputs	1	1	0	1	0	0	0	17	2	2	18	2	20
Integrated Farming													
Planting material production													
Vermi-culture	1	1	2	3	1	0	1	14	2	16	16	4	20
Sericulture													
Protected cultivation of vegetable crops	1							7	3	10	7	3	10
Commercial fruit 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
Repair and maintenance of farm machinery and implements	2							24	16	40	24	16	40
Nursery Management of Horticulture crops	1							15	5	20	15	5	20
Training and pruning of orchards	1							14	6	20	14	6	20
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Enterprise development	1	0	0	0	0	0	0	15	5	20	15	5	20
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
TOTAL	9	2	2	4	1	0	1	120	45	148	123	47	170

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													
Value addition													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
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	1	0	0	0	0	0	0	24	1	25	24	1	25
Resource Conservation Technologies	3	4	1	5	0	0	0	56	14	70	60	15	75
Cropping Systems	3	0	0	0	0	0	0	46	29	75	46	29	75
Crop Diversification													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Integrated Farming													
Water management													
Seed production													
Nursery management	1	0	0	0	0	0	0	14	11	25	14	11	25
Integrated Crop Management	8	6	4	10	1	0	1	148	41	189	155	45	200
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment	1							22	3	25	22	3	25
Production of low volume and high value crops	1							0	25	25	0	25	25
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and Pruning													
b) Fruits													
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, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation 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, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any Goat farming													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													

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
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements	1							17	8	25	17	8	25
Repair and maintenance of farm machinery and implements	1							17	8	25	17	8	25
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													

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
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development	1	0	0	0	0	0	0	22	3	25	22	3	25
Group dynamics													
Formation and Management of SHGs	1	0	0	0	0	0	0	16	9	25	16	9	25
Mobilization of social capital	1	0	0	0	0	0	0	21	4	25	21	4	25
Entrepreneurial development of farmers/youths	1	0	0	0	0	0	0	16	9	25	16	9	25
WTO and IPR issues													
Others, if any	2	0	0	0	0	0	0	30	20	27	30	20	50
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	26	10	5	15	1	0	1	449	185	611	460	190	650

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
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements	1							7	3	10	7	3	10
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1								20	20		20	20
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													

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
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any													
TOTAL	2							7	23	30	7	23	30

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	1	5	2		2			4	2		11	4	15
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application	1	8	2			2		3			11	4	15
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
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
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
TOTAL	**2**	**13**	**4**		**2**	**2**		**7**	**2**		**22**	**8**	**30**

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	1	0	0	0	0	0	0	24	1	25	24	1	25
Resource Conservation Technologies	3	4	1	5	0	0	0	56	14	70	60	15	75
Cropping Systems	3	0	0	0	0	0	0	46	29	75	46	29	75
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management	1	0	0	0	0	0	0	14	11	25	14	11	25
Integrated Crop Management	8	6	4	10	1	0	1	148	41	189	155	45	200
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
TOTAL	16	10	5	15	1	0	1	288	96	384	299	101	400
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	2							27	23	50	27	23	50

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
Water management													
Enterprise development													
Skill development													
Yield increment	3							52	23	75	52	23	75
Production of low volume and high value crops	1							0	25	25	0	25	25
Off-season vegetables													
Nursery raising	2							33	17	50	33	17	50
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
TOTAL	8	0	0	0	0	0	0	112	88	200	112	88	200
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, if any(INM)													
TOTAL													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation 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, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
TOTAL													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any (Goat farming)													
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													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
TOTAL													
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	2							42	8	50	42	8	50
Use of Plastics in farming practices													

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 of small tools and implements	5							46	79	125	46	79	125
Repair and maintenance of farm machinery and implements	1							17	8	25	17	8	25
Small scale processing and value addition													
Post Harvest Technology	1							10	15	25	10	15	25
Others, if any													
TOTAL	8							98	102	200	98	102	200
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
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, if any													
TOTAL													
IX. Production of Inputs at site													

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
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development	1	0	0	0	0	0	0	22	3	25	22	3	25
Group dynamics													
Formation and Management of SHGs	1	0	0	0	0	0	0	16	9	25	16	9	25
Mobilization of social capital	1	0	0	0	0	0	0	21	4	25	21	4	25
Entrepreneurial development of farmers/youths	1	0	0	0	0	0	0	16	9	25	16	9	25
WTO and IPR issues													
Others, if any	2	0	0	0	0	0	0	30	20	27	30	20	50
TOTAL	6	0	0	0	0	0	0	105	45	127	105	45	150
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. specify)													
TOTAL	39	10	5	15	1	0	1	620	339	936	631	344	975

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
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production	1	0	0	0	0	0	0	14	6	20	14	6	20
Production of organic inputs	1	1	0	1	0	0	0	17	2	2	18	2	20
Planting material production													
Vermi-culture	1	1	2	3	1	0	1	14	2	16	16	4	20
Sericulture													
Protected cultivation of vegetable crops	1							7	3	10	7	3	10
Commercial fruit production													
Repair and maintenance of farm machinery and implements	3	0	0	0	0	0	0	31	19	50	31	19	50
Nursery Management of Horticulture crops	1							15	5	20	15	5	20
Training and pruning of orchards	1							14	6	20	14	6	20
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1								20	20		20	20
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													

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
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development	1	0	0	0	0	0	0	15	5	20	15	5	20
Others if any (ICT application in agriculture)													
TOTAL	11	2	2	4	1	0	1	127	68	178	130	70	200

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology	1	5	2		2			4	2		11	4	15
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application	1	8	2			2		3			11	4	15
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													

Crop intensification													
Others if any													
TOTAL	**2**	**13**	**4**		**2**	**2**		**7**	**2**		**22**	**8**	**30**

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**
Horticulture	Extension Personnel	Protected cultivation for enhancing yield and income of farmers	1	OFF	11	4	15	6	2	8
Agril. Extension	Extension Personnel	Application of ICT for easy dissemination of agriculture technology	1	OFF	11	4	15	2	3	5

H) Vocational training programmes for Rural Youth

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	
Enterprise	Farm Mechanization	Repair and maintenance of Tractor	5	7	3	10	NA	NA	NA	NA

Sponsored Training Programmes

Sl.No	Title	Thematic area	Month	Duration (days)	Client PF/RY /EF	No. of courses	No. of Participants									Sponsoring Agency
							Male			Female			Total			
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1	Awareness training programme on energy efficient agricultural pump sets	Farm mechanization	January	One day	Farmers and Pump technicians	1			80						80		Bureau of Energy Efficiency (BEE) in association with SDA Odisha

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	13	570	62	632	91.7	14	6	18	584	68	652
KisanMela	1	12	8	20	100	6	1	7	18	9	27
KisanGhosthi											
Exhibition	1	39	11	50	86	5	1	5	44	12	56
Film Show	25	154	125	279	95	8	3	11	162	128	290
Method Demonstrations	3	5	1	6	100	0	0	0	5	1	6
Farmers Seminar											
Workshop											
Group meetings											
Lectures delivered as resource persons	35	-	-	-	-	-	-	-	-	-	-
Advisory Services											
Scientific visit to farmers field	42	1840	410	2250	88	23	8	31	1863	418	2281
Farmers visit to KVK	262	2890	478	3368	93.8	27	9	36	2917	487	3404
Diagnostic visits	25										
Exposure visits	2	43	7	50	92	2	0	2	45	7	52
Ex-trainees Sammelan											
Soil health Camp	1	15	5	20	100	1	0	1	16	5	21

Animal Health Camp											
Agri mobile clinic											
Soil test campaigns	1	35	15	50	2	1	3	4	37	16	53
Farm Science Club Conveners meet											
Self Help Group Conveners meetings	4	15	5	20	100	0	0	0	15	5	20
Mahila Mandals Conveners meetings											
Celebration of important days (specify)	13	270	133	403	89.9	72	17	89	342	150	492
Sankalp Se Siddhi											
Swatchta Hi Sewa	3	22	12	34	56	0	0	0	22	12	34
Mahila Kisan Divas	1	2	48	50	90	3	1	4	4	49	53
Any Other (Specify)											
Total	432	5912	1320	7232	1184.4	162	49	208	6074	1367	7441

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	12
Radio talks	
TV talks	
Popular articles	
Extension Literature	13
Other, if any	

3.5 a. Production and supply of Technological products

Village seed

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided			
					SC	ST	Other	Total
Total								

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Grand Total							

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
Vegetable seedlings							
Cauliflower	Snow ball, Megha	560	1400	0	4	0	4
Knolkhol	White Vienna	586	1465	0	3	0	3
Cabbage	Green gold, Sujata	100	250	0	2	0	2
Tomato	Arka Rakshak	52210	130275		45		45
Brinjal	Swarna Shyamali	140977	211465	0	72	7	79
Chilli	Arka Harita	9403	23700		11		11
Onion	Arka Kalyan	205500	30825	0	29	4	33
Drumstick	PKM1	56	980	0	15	0	15
Broccoli	Sisira	14050	35125	0	14	0	14
Capsicum	Bharat, Greengold	710	2840	0	8	0	8
Others							
Fruits							
Mango	Amrapalli, Lengada, Bombay Green	692	27680	0	23	5	28
Guava							
Lime							
Papaya	Red lady, Pusa Nanha	90	1800	0	6	0	6
Banana							
Others	Litchi(Muzaffarpur)	34	1020	0	8	0	8

Ornamental plants							
Medicinal and Aromatic							
Plantation							
Spices							
Turmeric							
Tuber	Sweet Potato (Bhuja, Bhukrishna)	63000	12600	0	15	0	15
Elephant yams							
Fodder crop saplings							
Forest Species							
Marigold	Seracole, Inca hyrid	42540	85170	0	24	6	30
Others, pl.specify							
Total		530508	566596	0	279	22	301

Production of Bio- product by KVKs

Bio -product	Name of the Bio - product	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers
Bio- fertilisers		**A&N Islands**				**Odisha**				**West bengal**				**Total**			
Non Symbiotic Azotobacter																	
Vermi compost	Vermicompost						143.4kg	2150	17								
Azolla																	
Earth worms	Earthworm						22 kg	11000	20								
Compost																	
Worms																	
Blue green algae																	
NADEP	NADEP																
Azatobactor																	
Azospirillum																	

Bio -product	Name of the Bio - product	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Numbe r of farmers	Quantity (no.)	Quantit y (Kg.)	Value (Rs.)	Numbe r of farmers	Quant ity (no.)	Quant ity (Kg.)	Value (Rs.)	Numb er of farme rs
Bio- fertilisers		**A&N Islands**				**Odisha**				**West bengal**				**Total**			
PSB																	
Rhizobium																	
Azolla culture	Azolla						60 kg	-	24								
Total																	
Bio- pestisides																	
Neem extract																	
Tobacco extract																	
Trichoder- maviride																	
Panchagavya																	
Trichoderma																	
Total																	
Worms																	
Eudriluseuniae																	
Total																	
Earth worm																	
Eiseniafoetida																	
Earth worm																	
Total																	
Bio- fungicides																	
Trichoder maviridae																	
Total																	
others																	
Vermiculture																	
Mushroom-spawn																	
Cuelure																	
Mineral mixture																	
Cow dung(dry)																	
Cow dung(wet)																	
Total																	
Grand Total																	

Bio -product	Name of the Bio - product	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Numbe r of farmers	Quantity (no.)	Quantit y (Kg.)	Value (Rs.)	Numbe r of farmers	Quant ity (no.)	Quant ity (Kg.)	Value (Rs.)	Numb er of farme rs
Bio- fertilisers		**A&N Islands**				**Odisha**				**West bengal**				**Total**			

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
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:

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

ii) Details of Quality Seed Production

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2020						
Rabi 2020-21						
Summer/Spring 2021						

iii) Financial Progress

Fund received (2016-17, 2017-18 2018-19 and2019-20)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2016-17				
2017-18				

2018-19				
2019-20				

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	Productivity Enhancement of Toria through Frontline Demonstration in Gajapati District of Odisha, India	Sanjib Kumar Mandi*, Sangram Paramaguru, Rashmita Toppo and Dwarika Mohan Das	Mass	Int.J.Curr.Microbiol.App.Sci (2020) 9(5): 1548-1554
Seminar/conference/ symposia papers				
Books	Participatory Agripreneurship: A Compendium Success Story	Rashmita Toppo, Sanjib Kumar Mandi, Dwarika Mohan Das, Mamata Mahali, Sangram Paramaguru and Manoj Kumar Sahu	50	Farmers/Far women, Extension Functionaries
	Muga Chasa re Rogapoka Parichalana	Sanjib Kumar Mandi, Rashmita Toppo and Sangram Paramaguru	300	Farmers/Far women, Extension Functionaries
	Baigyanika Pranali re Sarisa Chasa	Sanjib Kumar Mandi, Rashmita Toppo and Sangram Paramaguru	200	Farmers/Far women, Extension Functionaries
	Sammanito Pranilre Fall Armyworm Poka Parichalana	Sanjib Kumar Mandi, Sangram Paramaguru and Mamata Mahali	500	Farmers/Far women, Extension Functionaries
	Tractor Chalana O Rakhyana Bekhyana Prashikyana (Tractor Operation and repair	Er Dwarika Mohan Das, Mamata Mahali	100	Farmers/Far women, Extension Functionaries

	Maintenance)			
Bulletins				
News letter	Sabuja Giri (January – March 2020)	Sangram Paramaguru, Rashmita Toppo, Dwarika Mohan Das and Sanjib Kumar Mandi	500	Farmers/Far women, Extension Functionaries
	Sabuja Giri (April – June 2020)	Sangram Paramaguru, Rashmita Toppo, Dwarika Mohan Das and Sanjib Kumar Mandi	500	Farmers/Far women, Extension Functionaries
	Sabuja Giri (July - September 2020)	Sangram Paramaguru, Rashmita Toppo, Dwarika Mohan Das and Sanjib Kumar Mandi	500	Farmers/Far women, Extension Functionaries
	October – December 2020	Sangram Paramaguru, Rashmita Toppo, Dwarika Mohan Das and Sanjib Kumar Mandi	500	Farmers/Far women, Extension Functionaries
Popular Articles	Small Farm Mechanization in Rice for Doubling the Income of Small and Marginal Farmers in Gajapati district, Odisha: A Case Study	Dwarika Mohan Das1*, S. K. Swain2, S. Paramaguru1, S. K. Mohanty2, M. Mohapatra2, R. Toppo1 and S. Mandi	Mass	*Int.J.Curr.Microbiol.App.Sci* (2020) *9*(8): 3873-3886
Book Chapter				
Extension Pamphlets/ literature				
Technical reports				
Electronic Publication (CD/DVD etc)				
TOTAL				

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Training programme	Geospatial Analysis using QGIS & R	Er. Dwarika Mohan Das, Scientist (Agricultural Engineering), KVK Gajapati	February 01-06, 2021	ICAR-NAARM, Hyderabad

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	Smt. Ambika Nayak
Address	Jubagaon, Chandragiri, Mohana, Gajapati Odisha
Contact details (Phone, mobile, email Id)	
Landholding (in ha.)	2.2 ha
Name and description of the farm/ enterprise	Maize, Ragi, Vegetables and rice cultivation

DIVERSIFIED FARMING - A WAY TO EMPOWERMENT

Smt. Ambika Nayak (55 years), a progressive farm woman of village - Jubagaon, G.P - Chandragiri, Block - Mohana, Dist – Gajapati own 3.0 ha of farmland in which she grown direct seeded rice, maize & ragi followed by horse gram as a traditional farming practice and profit generated was very meager to maintain her family of fourteen members in a better way .i.e. health, education and decent livelihood status.

During 2014-15 she cultivated hybrid maize (2.2 ha) var. super-36 as per the recommendation of KVK scientist. Training and demonstration programme were conducted on improved package and practices for cultivation of hybrid of Maize. Smt. Nayak was identified as very progressive and receptive who could mobilize the beneficiaries for systematic and scientific cultivation by her own interest. She could be able to harvested 52 q/ha of maize which was the highest yield and the net return was Rs. 68,120/- with B:C ratio of 2.27 against the farmer practice of 30 q/ha. She was motivated with this benefit from scientific maize cultivation to diversify her farming system with improved cultivation of rice (2.4 ha), ragi (0.8 ha) and vegetables (1.0 ha) for maximization of profit.

Economics

Crop	Gross cost	Gross return	Net return	B:C ratio
Maize	30,000	68,120	38120	2.75
Ragi	6,000	20,000	14,000	3.30
Vegetables	25,000	1,35,000	11,0,000	5.40
Rice	25,000	48,960	23,960	1.95
Total	**86,000**	**2,72,080**	**1,86,080**	**3.16**

KVK provided Agri advisory services and established linkage with AAO/AHO, R.Udayagiri, input suppliers Paralakhemundi for availability of quality seeds and other critical inputs like biofertilizer, fertilizer, biopesticides, micro nutrient and finance from banks and micro finance agencies. She started cultivation with maize, transplanted ragi (Bhairabi), Maize+cowpea inter crop, off season cauliflower, brinjal (Tareni), Green pea (local), tomato (BT-10) and Chili (Local) through improved cultivation practices. She followed treatment proper seed treatment and appropriate fertilizer management practices integrated with organic and chemical inputs. The continuous follow up activities by scientists of KVK during the cropping season could build his confidence and skill for the improved method of cultivation with minimization of cost of cultivation by timely farming operations.

Smt. Ambika Nayak is now better up in her social status due to strengthening her farming economy through such type of diversified farming system. Her husband with 4 sons helped a lot taking care of her homestead farming system. However, the family labour could be efficiently utilized for sustainability of the system.

The farmers of Jubagaon village appreciated the technological intervention of KVK, Gajapati and realized the outcome of the improved cultivation practices through diversified farming system and cost effectiveness. Most of the farmer of the village have now started diversifying their farming. Smt. Ambika Nayak is now become a better farmer trainer of that village for her friends and relatives. Even some of them have now started seed production in tomato seeds of BT-10 variety and supplying to the private traders @Rs. 5000 /Kg of seed.

Scientists of KVK Gajapati are making regular follow up and suggestions the critical technical intricacies faced by the farmers. The feedback is collected through ex-trainee meet, diagnostic field visit and group discussion. The crop planning is advised well ahead to procure the critical inputs for their timely applications. Scientists are advising all possible solution measures through practicable and advising appropriate recommendations.

Fig: Diversified cropping system of Mrs. Nayak

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
	Cultivation of Hybrid Maize	Crop diversification from local maize and Ragi verities to use improved crop varieties	Mrs Nayak was motivated by the training programme of KVK and also visited KVK farm several times to learn the scientific cop demonstrations

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

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Enterprise	Cleaning of ragi in Natural wind with KULA	Use of Mechanical Ragi winnower cum cleaner
2	Crop (Rakia beans)	Use of unmanaged Trellising structure	Use of line trellising with plastic net
4	Tamarind	Drying of Tamarind under sun and Manual deseeding	Use of solar dryer and use of Tamarind seed deseeder
5	Crop (Mahua)	Breaking of Mahua seeds manually	Use of Mahua Seed decorticator

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	Ragi	20	6000 kg	25	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
1.	Use of power point presentation for theory and hands on practice for practical and demonstration activities	For gaining detailed knowledge on a technology and make the topic more interested and easily understandable

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

Sl. No	Name of the Equipment	Qty.
1.	Flame Photometer With Pc Software	1
2.	Electronic Precision Balance	1
3.	Electronic Precision Balance	1
4.	Refrigerated Centrifuge	1
5.	Physical Balance	1
6.	Hydrometer	1
7.	Thermometer	1
8.	Horizontal Rotary Shaker	1
9.	Hot Air Oven Digital	1
10.	Distilled Water Unit	1
11.	Ph Meter Micro Controller Based	1
12.	Ec Meter	1
13.	Mechanical Stirrer	1
14.	Magnetic Stirrer with Hot Plate	1
15.	Soil Moisture Meter	1
16.	Kel Plus Automatic Nitrogen.Protein Estmation System	1
17.	Kel Plus Automatic Scrubber System	1
18.	Kel Plus Automatic Distillation System	1
19.	Titration System	1
20.	Mridaparikshak	2

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			
42		42	252	15	-

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	Training, Awareness & Demonstration	60	7	1. Janaki Devi Raita 2. Jacob Majhi 3. Ireniyas Pradhan 4. Santosh Kr Maharana 5. Suprabha Mandal 6. Ramakanta Raita 7. Rama Chandra Raita	60	60

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

No of training programme/ demonstration on micro-irrigation	No of demonstrations	No of plant material produced	Visit by the farmers	Visit by the officials
4	1	2	230	10

3.13. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology
Jai Kisan Jai Vigyan	2	50	Cabbage, Cauliflower, Broccoli, Vermicompost, Azolla, NADEP Pit, Nutritional Garden
Visit of Demo unit	8	40	Use of AMC in vegetables Nursery raising of vegetables Vermicompost production Marigold cultivation Capsicum cultivation Azolla cultivation Backyard poultry rearing Mango graft production unit
Distribution of Literature	5	90	News Letter, Booklets

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

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
17.01.2020	Dr. S. K. Srivastav Director, ICAR-CIWA Bhubaneswar	To attend SAC meeting
17.01.2020	Dr. H. K. Sahoo Deputy Director Extension DEE, OUAT	To attend SAC meeting
26.02.2020	Dr. P. K. Raul Dean Extension Education, OUAT, Bhubaneswar	Reviewing KVK activities
16.03.2020	Prof. Antaryami Mishra Professor, Soil Science, AICRP on STCR	For monitoring soil testing activities in Gajapati District
29.01.2021	Satyanarayan Mishra Ex-Director IMAGE, Advisor ICARDA	To review ICARDA activities in Gajapati District

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.)	
Cultivation of Broccoli	35	100	112000/-	144000/-
Cultivation of Sweet corn	62	100	62000/-	94500/-
Rice var. Bina Dhan-11	32	100	22500/-	29250/-
Rice var. DRR 42	30	100	21350/-	28600/-
Rice var. Hasanta	20	100%	21700/-	29600/-
Adoption of improved farm machinery	30	90 %	80,750	13035/-

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 Broccoli	1800 ha
Cultivation of Sweet corn	350 ha
Rice var. Bina Dhan-11	150 ha
Rice var. DRR 42	135 ha
Rice var. Hasanta	90 ha
Small farm mechanization	267 number

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	Demonstration of Improved crop verities	Enhancement in crop yield	Increase in farmers' income
2	Training and Demonstration on scientific crop management practices	Enhancement of yield and quality of produce	Increase in famers' income and sustainability
3	Training and demonstration on farm mechanization	Precision use of inputs and increase in net return	Reduction of cost of cultivation, drudgery reduction, Maintaining Gender equality, Timely farm operation
4	Soil Test based fertilizer application and INM	Improvement in production and soil health	Sustainability of crop production and soil health

4.4. Details of innovations recorded by the KVK

Thematic area	Small farm mechanization
Name of the Innovation	Development of multi-purpose cycle weeder
Details of Innovator	Mr. Rama Badamundi, Ramagiri
Back ground of innovation	Mr. Badamundi with guidance of KVK scientist developed this tool which is used for intercultural activities in row crops like, weeding earthling up soil, application of fertilizer in a single operation.
Technology details	Development of multi-purpose cycle weeeder
Practical utility of innovation	Very much useful for small and marginal farmers and specially for women farmers

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Establishment of commercial vegetable unit
Name & complete address of the entrepreneur	Mrs Champulata, Pujari, Village: Sinising, Block-R.Uadayagiri
Role of KVK with quantitative data support:	KVK extended all type of technical support starting from imparting vocational training under ASCI, shadenet house construction to planting of seedlings in portray and marketing of seedling.
Timeline of the entrepreneurship development	2019-2021
Technical Components of the Enterprise	Production quality vegetable seedlings
Status of entrepreneur before and after the enterprise	House wife
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Capacity: 100000 vegetable seedlings/year Raw material availability: From local market, Berhmpur and Bhaubaneswar market Marketing of produce:100% Net income: 80000 per year
Horizontal spread of enterprise	Surrounding farmers are influenced by her

4.6. Any other initiative taken by the KVK

KVK Gajapati got a project named Biotech-Krishi Innovation Science Application Network (Biotech-KISAN) funded by Department of Biotechnology, Ministry of Science and Technology, Govt. of India. In this project the KVK received an amount Rs. 25 lakhs for the year 2020-21. Under the programme various income generation activities like mushroom production, exotic vegetable cultivation, poultry farming and gender friendly farm machinery etc. Five number of vocational training has been conducted constituting 100 number trainees

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
ATMA, Gajapati & others line departments	Monthly RE Linkage meeting, Diagnostic field visit,
Horticulture Department	Planting material certification, Diagnostic field visit Resource person in various demonstration and training programme
Agriculture Department	Diagnostic field visit, Resource person in various demonstration and training programme
Animal Husbandry .	Diagnostic field visit, Resource person in various demonstration and training programme
AICRPS	Collaborative Training and demonstration

5.2. List of special programmes undertaken during 2020-21by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

a) Programmes for infrastructure development

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

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

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
World Soil Day	World Soil Day cum Farmers Fair	05.12.2020	ICAR	2400

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area(Sq.mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	

1.	Poly house	2010	100	Vegetable Seedlings and sapling	Planting Material	530508		566596	Papaya, Drumstick Vegetables seedlings
2	Poultry Unit	2010	20	Vanaraj, Kadaknath, Rainbow rooster	Poultry bird and egg	30		3900	Needs more infrastructure for extension
3	Grafting unit	2007	200	Bombay green, Amrapali, Lengda, Daseri, Mallika	Mango	726 samplings		28700	Need fund for orchard cleaning and management
Total									

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Sweet corn	10.2.2020 & 05.04.2020	12.05.23020-14.10.2020	0.1	Sugar 75	Cubs				
Maize	10.11.2020	29.1.2021 to 05.02.2021	0.1		Cubs	72 nos		1296	
Banana	05.01.2020	5.10.2020 to 14.10.2020	0.05		Fruits	0.37		740	
Onion	05.02.2020	18.05.2020	0.01	ArkaKlyan	Bulb	0.05	-	75	
Chilli	25.01.2020	12.05.2020	0.01	Arka Harita	Fruit	0.05	-	100	
Beans	10.20.2020 20.07.2020	12.05.23020-14.10.2020		Raikia Beans	Fruits	94.55			
Mango (low yield due to alternate bearing)	-	11.06.2020	10 ha	Langada, Bmbay Green	fruit	2.42	-	2910	
Litchi	-	9.6.2020	0.4	Muzzafarpur	Fruit	27	-	540	
Bitter gourd	01.03.2020	12.05.2020	0.01		Fruit	17		680	

Okra	10.03.2020	12.05.2020 to 30.07.2020	0.01		Fruit	45.5		910	
Cowpea	28.02.2020 to 10.11.2020	12.05.2020 to 6.1.2021	0.02		Fruit	59.5		1555	

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	1100	9500	16500	
2.	Earthworm	8 kg		4000	

6.4 Performance of instructional farm (livestock and fisheries production)

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

6.5 Utilization of hostel facilities

Accommodation available (10 No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January-February 2020	50	50 days	Due to lack of enough space in farmers hostel, needs funds for extension of farmers hostel to make it 100 seated

(For whole of the year)

6.6 Utilization of staff quarters

Whether staff quarters has been completed: Not Completed
No. of staffquarters:
Date of completion:
Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI

7 FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Current –Flexi	State Bank of India	R.Udayagiri	11570672119
Current –Flexi	State Bank of India	R.Udayagiri	39333724711
Current –Flexi	State Bank of India	R.Udayagiri	30450420961

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

Item	Released by ICAR		Expenditure		Unspent balance as on -
	Kharif	Rabi	Kharif	Rabi	
Groundnut		120000		120000	Nil
Sesame(summer)		100000		100000	Summer

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	
Blackgram		90000		90000	Nil
Greengram		90000		90000	Nil
Greengram (Summer)		180000		180000	Summer Pulse

2019.5. Utilization of KVK funds during the year 2020-21(Not audited)

Sl.No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	6300000	5318000	5318000
2	Traveling allowances	100000	100000	100000
3	Contingencies			
A	Office Expenditure, Elec. Bill, Telephone bill etc			348880
B	POL			162510
C	FLD, OFT, Demo Unit, Trg Material , Training			313319
D	Extension Activities			106391
E	TSP			418400
F				
G				
H				
I				
J	Swachhta Expenditure			
TOTAL (A)				1349500
B. Non-Recurring Contingencies				
1	Library	10000	10000	10000
2				
3				
4				
TOTAL (B)		10000	10000	10000
C. REVOLVING FUND		-	-	
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)
2015-16	119325	90172	64428	209497
2016-17	209497	204675	67095	39639.5
2017-18	39639.5	336115	208017	376439

2018-19	376439	255807	155678.5	374608
2019-20	374608	331227	246282	459553 (Rs. 250000 Refunded to DEE, OUAT, BBSR)

7.6. (i) Number of SHGs formed by KVKs : 7
(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
Diagnostic filed visit	18	Kharif & Rabi	Agriculture	8	8
Diagnostic field visit	13	Kharif & Rabi	Horticulture	-	-
Animal health camp	4	Rabi	Animal Husbandry	-	-

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 Armyworm	Maize	20th August to 15th September	2000 ha	5%	Spraying of Emamectin benzoate 4gm/10 l

8.2. Prevalent diseases in Livestock/Fishery

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

9.1. Nehru Yuva Kendra(NYK) Training -NA

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

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

Type of message	No. of messages	No. of farmers covered
Crop	46	14225
Livestock	0	14225
Fishery	0	14225
Weather	3	14225
Marketing	1	14225
Awareness	8	14225
Training information	0	14225
Other	15	14225
Total	73	14225

9.3. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	6500
2.	No. of farmers registered in the portal	1053
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	-

9.4. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
16.09.2020 to 2.10.2020	Cleaning of campus, Awareness, Cleaning of plastics, Cleaning of demo unit,

	Awareness on reuse of far waste to farmers, Organic farming, preparation of NADEP pit
16.12.2020 to 31.12.2020	Awareness to farmers and farm women regarding reuse of the farm waste and waste of animals, Cleaning of campus, Awareness, Cleaning of plastics, Cleaning of demo unit, vermicompost preparation
08.02.2021 to 14.02.2021	Awareness to farmers and farm women regarding reuse of the farm waste and waste of animals, Cleaning of campus, Awareness, Cleaning of plastics, Cleaning of demo units

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	-	-
2. Basic maintenance	8	33821
3. Sanitation and SBM	20	
4. Cleaning and beautification of surrounding areas	25	
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	12	
6. Used water for agriculture/ horticulture application	2	
7. Swachhta Awareness at local level	15	
8. Swachhta Workshops	3	
9. Swachhta Pledge	4	
10. Display and Banner	0	
11. Foster healthy competition	0	
12. Involvement of print and electronic media	0	
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	7	
14. No of Staff members involved in the activities	12	
15. No of VIP/VVIPs involved in the activities	2	
16. Any other specific activity (in details)	-	
Total	**110**	**33821**

9.5. Observation of National Science day

Date of Observation	Activities undertaken
28.2.2021	Training, Awareness, Exhibition, Distribution of scientific literature

9.6. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants

9.7. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used
Sri Jagannath Niketan, R.Sitapur	03.12.2020	-	AV-Aids, Model, Pen, Pad, Drawing sheet, Geometry Box

Give good quality 1-2 photograph(s)

9.8. Details of '*Pre-Rabi Campaign'* Programme

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

9.9. Details of Swachhta Hi Sewaprogramme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Cleaning	2	55	0	-
2	Swachhta Pledge	2	55	0	
3	Awareness on plastic free village	4	125		

9.10. Details of MahilaKisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1.	Training and Demonstration	12	50	2	1. Pradeep Kr. Nayak, BDO 2. Smruti Ranjan Satpathy, Tahasildar

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1	Mr. Rama Badamundi	Ramagiri	Development of multi-purpose cycle weeder

9.12. Revenue generation

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

9.13. Resource Generation:

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

9.14. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
21.01.2021	India Meteorological Department	Sensors and other accessory instrument are not installed till date

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

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

a) Year:
b) Introduction / General Information:

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

11. Details of TSP

a. Achievements of physical output under TSP during 2017-18

Programmes	**Physical achievements**
Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)	1790
On-farm trials (Number)7	6
Frontline demonstrations (Number)	10
Farmers training (in lakh)	0.00545
Extension personnel training (in lakh)	0
Participants in extension activities (in lakh)	0.0125
Seed production (in tonnes)	0

Planting material production (in lakh)	1.84665
Livestock strains and fingerlings production (in lakh)	0
Soil, water, plant, manures samples testing (in lakh)	0.00049
Provision of mobile agro – advisory to farmers (in lakh)	6.92125
No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	60

b. Fund received under TSP in 2020-21 (Rs. In lakh):13.25

c. (i)Achievements of physical outcomeunder TSP during 2020-21

Sl. No.	Description	Unit	Achievements
1	Change in family income	%	4
2	Change in family consumption level	%	2
3	Change in availability of agricultural implements/ tools etc.	No. per household	7

(ii) Table:

Sl. No.	***Description***	***Unit***	***Achievements***
1	Number of Technologies Identified after Assessment	Number	4
2	Upgraded Skills and Knowledge of farmers	Number	711
3	Oriented extension personnel in frontier areas of agricultural technology	Number	91
4	Increased availability of quality seed	Quintal	0
5	Increased availability of quality Planting material	Number	131950
6	Increased availability of live-stock strains and fingerlings	Number	0
7	Testing of Soil & water samples for balance fertilizer use	Number	75

d. Location and Beneficiary Details during2020-21

District	*Sub-district*	*No. of Village covered*	*Name of village(s) covered*	*ST population benefitted (No.)*		
				M	F	T
Gajapati	R.Udayagiri	6	Budhisila	28	0	28
Gajapati	R.Udayagiri		Kankadaguda	85	0	85
Gajapati	R.Udayagiri		Phatachencheda	155	0	155
Gajapati	R.Udayagiri		R.Udayagiri	223	0	223
Gajapati	R.Udayagiri		Ringising	32	0	32
Gajapati	R.Udayagiri		Bhandarisahi	36	0	36
Gajapati	Nuagada	2	Gholakana	105	0	105
Gajapati	Nuagada		Attarsing	126	0	126
Gajapati	Mohana	1	Tumba	48	0	48
Gajapati	R.Udayagiri	30	Makapada	5	2	7
Gajapati	R.Udayagiri		Sinising	3		3
Gajapati	R.Udayagiri		Lubursing	2		2
Gajapati	R.Udayagiri		Kankadaguda	1		1
Gajapati	R.Udayagiri		Kankadaguda	6	3	9
Gajapati	R.Udayagiri		Kankadaguda	35	15	50
Gajapati	R.Udayagiri		Tuman	4		4
Gajapati	R.Udayagiri		Tuman	1		1
Gajapati	R.Udayagiri		Tuman	30	20	50
Gajapati	R.Udayagiri		Phatachanchada	17	22	37
Gajapati	R.Udayagiri		R.Udayagiri	2		2
Gajapati	R.Udayagiri		R.Udayagiri	10	4	14
Gajapati	R.Udayagiri		Lubursing	7		7
Gajapati	R.Udayagiri		Lubursing	27	23	50
Gajapati	R.Udayagiri		Sabarpalli	1		1
Gajapati	R.Udayagiri		Budhisila	1		1
Gajapati	R.Udayagiri		Budhisila	31	19	50
Gajapati	R.Udayagiri		Tai	1		1
Gajapati	R.Udayagiri		Karanjasahi	1		1
Gajapati	R.Udayagiri		Rumunda	2		2
Gajapati	R.Udayagiri		Dumba	1		1
Gajapati	R.Udayagiri		Sunduraba	1		1
Gajapati	R.Udayagiri		Kendusahi	1		1
Gajapati	R.Udayagiri		Ranalai	5		5
Gajapati	R.Udayagiri		Anukumpa	1		1
Gajapati	R.Udayagiri		Muniguda	1		1
Gajapati	R.Udayagiri		Cheligada	2		2

Gajapati	R.Udayagiri		Padampur	1		1
Gajapati	R.Udayagiri		Abarsing	1		1
Gajapati	R.Udayagiri		Betaring	1		1
Gajapati	Nuagada	9	Attarsingh	2		2
Gajapati	Nuagada		Attarsingh	7		7
Gajapati	Nuagada		Titisingh	16	9	25
Gajapati	Nuagada		Taraba	3		3
Gajapati	Nuagada		Kamarsahi	1		1
Gajapati	Nuagada		Kankarada	1		1
Gajapati	Nuagada		N.Rogeising	1		1
Gajapati	Nuagada		Leoba	2		2
Gajapati	Nuagada		Nuagada	1		1
Gajapati	Mohana	13	Kaliapata	7		7
Gajapati	Mohana		Kaliapata	5		5
Gajapati	Mohana		Manikapur	1		1
Gajapati	Mohana		Liliguda	1		1
Gajapati	Mohana		Chandiput	1		1
Gajapati	Mohana		Simulisahi	1		1
Gajapati	Mohana		Chandragiri	2		2
Gajapati	Mohana		Kaithapada	10		10
Gajapati	Mohana		Jubagaon	1		1
Gajapati	Mohana		Burusing	1		1
Gajapati	Mohana		Dimirijholi	2		2
Gajapati	Mohana		Raijuka	2		2
Gajapati	Mohana		Pindiki	1		1
Gajapati	Gumma	1	Tarava	12	8	20
Gajapati	Raygada	5	Jalanga	2		2
Gajapati	Raygada		Marlaba	1		1
Gajapati	Raygada		Marlaba	1		1
Gajapati	Raygada		Andarsing	1		1
Gajapati	Raygada		Baunsasahi	1		1
Gajapati	R.Udayagiri	28	Sinising	2		2
Gajapati	R.Udayagiri		R. Udayagiri	4		4
Gajapati	R.Udayagiri		Kankadaguda	1		1
Gajapati	R.Udayagiri		Kanchimula	1		1
Gajapati	R.Udayagiri		Tubursing	1		1
Gajapati	R.Udayagiri		Kankadaguda	20	14	34
Gajapati	R.Udayagiri		Rumunda	15		15
Gajapati	R.Udayagiri		Kankadaguda	5		5
Gajapati	R.Udayagiri		Tuman	2		2

Gajapati	R.Udayagiri		Sabarapalli	75	65	140
Gajapati	R.Udayagiri		Sabarapalli	22	28	50
Gajapati	R.Udayagiri		Phatachanchada	29	21	50
Gajapati	R.Udayagiri		Phatachanchada	4		4
Gajapati	R. Udayagiri		Phatachanchada	15	7	22
Gajapati	R. Udayagiri		Tai	1		1
Gajapati	R. Udayagiri		Tai	1		1
Gajapati	R. Udayagiri		Subalada	1		1
Gajapati	R. Udayagiri		Subalada	1		1
Gajapati	R. Udayagiri		Lubursing	6		6
Gajapati	R. Udayagiri		Kodikuma	1		1
Gajapati	R. Udayagiri		Ashrayapur	1		1
Gajapati	R. Udayagiri		Kuanpada	1		1
Gajapati	R. Udayagiri		Guluba	1		1
Gajapati	R. Udayagiri		Randiba	2		2
Gajapati	R. Udayagiri		K.M. Bhaliasahi	1		1
Gajapati	R. Udayagiri		Tandiguda	1		1
Gajapati	R. Udayagiri		Tikamala	1		1
Gajapati	R. Udayagiri		Dihudisahi	5		5
Gajapati	Nuagada	6	Attarsingh	9		9
Gajapati	Nuagada		Titisingh	1		1
Gajapati	Nuagada		Leoba	3		3
Gajapati	Nuagada		Puspanga	1		1
Gajapati	Nuagada		Gholakana	25	22	47
Gajapati	Nuagada		Gholakana	28	22	50
Gajapati	Mohana	7	Gobindpur	1		1
Gajapati	Mohana		Dimirijholi	2		2
Gajapati	Mohana		Sialilati	1		1
Gajapati	Mohana		Ladiguda	1		1
Gajapati	Mohana		Jagannathapur	1		1
Gajapati	Mohana		Gamangosahi	1		1
Gajapati	Mohana		Jodaamba	1		1
Gajapati	Raygada	4	Gobindapur	2		2
Gajapati	Raygada		Raghunathpur	1		1
Gajapati	Raygada		Bulabagumma	1		1
Gajapati	Raygada		Limarsing	2		2

Gajapati	Gosani	1	R. Sitapur	20	10	30
Gajapati	Kashinagar	2	D. Katuru	15	10	25
Gajapati	Kashinagar		Kailashguda	15	6	21
Gajapati	Gumma	7	Tarava	10	0	10
Gajapati	Gumma		Tarava	30	20	50
Gajapati	Gumma		Tarangada	4	0	4
Gajapati	Gumma		Kuttam	4	0	4
Gajapati	Gumma		Jhami	7	0	7
Gajapati	Gumma		Jhola	5	0	5
Gajapati	Gumma		Jeeba	5	0	5
Gajapati	R.Udayagiri	28	R.Udayagiri	25	22	57
Gajapati	R.Udayagiri		Sinising	20		20
Gajapati	R.Udayagiri		Kanchimula	12	18	30
Gajapati	R.Udayagiri		Kankadaguda	10		10
Gajapati	R.Udayagiri		Tubursing	1		1
Gajapati	R.Udayagiri		Kankadaguda	19	16	35
Gajapati	R.Udayagiri		Rumunda	9	6	15
Gajapati	R.Udayagiri		Kankadaguda	5		5
Gajapati	R.Udayagiri		Tuman	2		2
Gajapati	R.Udayagiri		Sabarapalli	98	42	140
Gajapati	R.Udayagiri		Sabarapalli	35	15	50
Gajapati	R.Udayagiri		Phatachanchada	23	27	50
Gajapati	R.Udayagiri		Phatachanchada	55	20	75
Gajapati	R. Udayagiri		Phatachanchada	22	0	22
Gajapati	R. Udayagiri		Tai	4		4
Gajapati	R. Udayagiri		Tai	2		2
Gajapati	R. Udayagiri		Subalada	1		1
Gajapati	R. Udayagiri		Ghodakona	29	21	50
Gajapati	R. Udayagiri		Lubursing	6		6
Gajapati	R. Udayagiri		Kodikuma	1		1
Gajapati	R. Udayagiri		Ashrayapur	1		1
Gajapati	R. Udayagiri		Kuanpada	1		1
Gajapati	R. Udayagiri		Guluba	1		1
Gajapati	R. Udayagiri		Randiba	2		2
Gajapati	R. Udayagiri		K.M. Bhaliasahi	1		1
Gajapati	R. Udayagiri		Tandiguda	1		1

Gajapati	R. Udayagiri		Tikamala	1		1
Gajapati	R. Udayagiri		Dihudisahi	28	17	45
Gajapati	Nuagada	9	Attarsingh	9		9
Gajapati	Nuagada		Titisingh	1		1
Gajapati	Nuagada		Leoba	3		3
Gajapati	Nuagada		Puspanga	1		1
Gajapati	Nuagada		Atarsingh	27	28	55
Gajapati	Nuagada		Leobo	20		20
Gajapati	Nuagada		Tarboal	10		10
Gajapati	Nuagada		Munigadia	15		15
Gajapati	Nuagada		Nuasahi	10		10
Gajapati	R.Udayagiri	1	Munising	10		10
Gajapati	Nuagada	1	Sureikhamar	5		5
Gajapati	R.Udayagiri	1	Sambalpur	38	22	50
Gajapati	Nuagada	1	Gholakana	27	23	50
Gajapati	Mohana	7	Gobindpur	1		1
Gajapati	Mohana		Dimirijholi	2		2
Gajapati	Mohana		Sialilati	1		1
Gajapati	Mohana		Ladiguda	1		1
Gajapati	Mohana		Jagannathapur	1		1
Gajapati	Mohana		Gamangosahi	1		1
Gajapati	Mohana		Jodaamba	1		1
Gajapati	Raygada	4	Gobindapur	2		2
Gajapati	Raygada		Raghunathpur	1		1
Gajapati	Raygada		Bulabagumma	1		1
Gajapati	Raygada		Limarsing	2		2
Gajapati	Gosani	1	R. Sitapur	30		30
Gajapati	Kashinagar	2	D. Katuru	25		25
Gajapati	Kashinagar		Kailashguda	21		21
Gajapati	Gumma	1	Tarava	10		10
Gajapati	Mohana	2	Dimbirijholi	50		50
Gajapati	Mohana		Dhadiamaba	10		10

12. Schedule caste Output & Outcome achievements

Sl.	Indicator/Activities	Unit of Indicator	Achievements

No.			
1	Farmers, farm women trained by KVKs	Number	
2	Extension personnel trained by KVKs	Number	
3	On-farm trials conducted by KVKs	Number	
4	Frontline demonstrations conducted by KVKs	Number	
5	Quantity of seeds produced	Quintal	
6	Planting materials Produced	Number	
7	Livestock strains and fingerlings produced	Number	
8	Soil & water samples tested	Number	

13**.** Information pertaining to ARYA Project NA

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

Natural Resource Management

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

15. Awards/Recognition received by the KVK

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

Award received by Farmers from the KVK district

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

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

17. 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

18. Integrated Farming System (IFS)

Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
1	Horticulture based IFS	1 acre	a. Production of planting material	a) 60000 b) 40000 c) 7000	a) 150000 b) 100000 c) 15000	8	5

			vegetable and fruits=200000 per annum b. Vegetables production: 80 quintals per annum c. Vermi compost production=10 quintals per annum				

19.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	Maize +Cowpea intercropping	1. Enhances the land productivity, 2. Enhance farmers income 3. Maintain soil health	Rs 99500/-	20	

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

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

21.Information on Visit of VIPs to KVKs, if any

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

22.a) Information on **ASCI** Skill Development Training Programme, if undertaken during 2019-20 and 2020-21

Year	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 SDMS Portal (Y/N)	Fund utilized for the training (Rs.)
2016-17							
2017-18							
2018-19	Mango Grower	Dr. Rashmita Toppo Scientist (Horticulture)	10.12.2018	10.01.2019	20	Y	170300
2019-20	Nursery Worker	Dr. Rashmita Toppo Scientist (Horticulture	19.02.2020	14.03.2020	20	Y	180000
	Tractor Operator	Er. Dwarika Mohan Das, Scientist (Agricultural Engineering)	20.02.2020	15.03.2020	20	Y	210800

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs**., if any) if undertaken during 2020-21

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	

23. Information on NARI Project(if applicable)

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

24. Information on Krishi Kalyan Abhiyan Phase- I/ Phase-II/ Phase-III, if applicable

Krishi Kalyan Abhiyan- I and II

A. Training

Name of programme	***No. of programmes***	***No. of farmers benefitted***									***No. of officials attended the programme***
		SC		**ST**		**Others**		**Total**			
		M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**	
KKA-I	25	70	05	699	112	299	77	1068	194	1262	181
KKA-II	25	03	01	924	431	30	07	957	439	1396	85

B. Distribution of seed/ planting materials/ input/ others

Name of programme	***No. of Programme***	***Total quantity distributed***				***No. of farmers benefited***				***No. of other officials (except KVK) attended the programme***
		Seed	***Planting***	***Input***	***Other***	***SC***	***ST***	***Others***	***Total***	

		(q)	*material (lakh)*	*(kg)*	*(kg/ No.)*	*M*	*F*	*M*	*F*	*M*	*F*	*M*	*F*	*T*	
KKA-I	25	497.5	0.125	-	-	2048	7	2664	1035	887	209	5599	1251	6850	69
KKA-II	25	50	0.09	-	-	72	9	1923	395	623	28	2618	432	3050	35

C. Livestock and Fishery related activities

Name of programme	*No. of Programme*	*Activities performed*				*No. of farmers benefited*									*No. of other officials (except KVK) attended the programme*
						SC		*ST*		*Others*		*Total*			
		No. of animals vaccinated	*No. of animals dewormed*	*Feed/ nutrient supplements provided (kg)*	*Any other (Distribution of animals/ birds/ fingerlings) [No.]*	*M*	*F*	*M*	*F*	*M*	*F*	*M*	*F*	*T*	
KKA-I	25	10316	-	-	-	87	4	518	3	9683	21	10288	28	10316	37
KKA-II	25	3737	-	-	-	18	2	298	7	3398	14	3714	23	3737	28

D. Other activities

Name of programme	*Activities*	*No. of farmers benefited*									*No. of other officials (except KVK) attended the programme*
		SC		*ST*		*Others*		*Total*			
		M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	T	
KKA-I	Soil Health Card Distributed										
	NADEP Pit established										
	Farm implements distributed										
	Others, if any										
KKA-II	Soil Health Card Distributed										
	NADEP Pit established										
	Farm implements distributed										
	Others, if any										

Krishi Kalyan Abhiyan- III

No. of villages covered	*No. of animal inseminated*	*No. of farmers benefitted*									*Any other, if any (pl. specify)*
		SC		*ST*		*Others*		*Total*			
		M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	T	

14	198	8	0	1	0	165	6	174	6	180	

25. Nutri-garden

Sl.no.	Name of KVK	Established in KVK Campus	No. of nutria-garden established in the village	Major vegetables production
1	KVK, Gajapati	2015-16	208	Papaya, Drumstick, elephant foot yam, cucurbits, leafy vegetables, yam, Sweet potato and seasonal vegetables, Lemon
				

Please provide one or two good quality photographs

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

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

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

		
Demonstration on Preparation of Cashew nut butter	FLD on IPM in Mango	FLD in Weed Management in Rice
		
OFT on Maize Dehusker cum Sheller	Demonstration on bullock drawn puddler	OFT on Sweet Potato Varieties

		
International Womens day celebration	Training programme on Scientific Bee Keeping	16th SAC Meeting
		
Diagnostic Field visit with Line Department	OFT on different Planting time for better market price in Tomato	World Food day Celebration

28. SC SP quarter-wise

Table-I: Schedule Caste Output & Outcome Achievement/Indicators for 2020-21 (QUARTER-WISE)

Physical Output 2020-2021

Sl. No.	Indicator/Activities	Unit of Indicator	Quarterly Breakup (Target)	Targets Achieved	No. of Beneficiaries	Outcome
1	**Farmers, farm women trained by KVKs**	**Number**	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	
2	**Extension personnel trained by KVKs**	**Number**	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	
3	**On-farm trials conducted by KVKs**	**Number**	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	
4	**Frontline demonstrations conducted by KVKs**	**Number**	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	
5	**Quantity of seeds produced**	**Quintal**	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	
6	**Planting materials Produced**	**Number**	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	
7	**Livestock strains and fingerlings produced**	**Number**	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	

Sl. No.	Indicator/Activities	Unit of Indicator	Quarterly Breakup (Target)	Targets Achieved	No. of Beneficiaries	Outcome
8	**Soil & water samples tested**	**Number**	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	

Sd/
Senior scientist and Head
KVK, Gajapati