Annual Progress Report

2020

Krishi Vigyan Kendra, Kendrapara

ICAR-ATARI, Kolkata, Zone-V

Odisha University of Agriculture and Technology, Bhubaneswar

PROFORMA FOR ANNUAL REPORT 2020 (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
	Office	FAX	
At. Jajang. Po.Kapaleswar, Dist. Kendrapara. Odisha - 754250	06727- 274962 274963		kvkkendrapara.ouat@gmail.com, kendraparakvk@yahoo.co.in

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

Address	Telephone		E mail
	Office	FAX	
Orissa University of Agriculture and Technology Bhubaneswar-3	(0674)- 2397970/ 2397818/ 2397719/ 2397669 / 2397719 / 2397919 / 2397868		

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

Name	Telephone / Contact	
Dr. Surya Narayana Mishra	9437982254	suryakrishna4422@gmail.com

1.4. Year of sanction of KVK: 1994

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. Surya Narayana Mishra	Senior Scientist & Head	Plant Protection	Rs.22320-39100, AGP - 8000/- 22320	08.09.2017	Contractual	Others
2	Subject Matter Specialist	Mrs. Namita Mohapatra	Scientist (Home Science)	Home science	15600 – 39100 AGP-6000 22220	12.01.2012	Contractual	Others
3	Subject Matter Specialist	Sri Tapas Ranjan Sahoo	SMS(Agronomy)	Agronomy	15600 – 39100 AGP-5400 15600	26.11.2018	Contractual	Others
4	Subject Matter Specialist	Sri Prabhanjan Mishra	Scientist (Horticulture)	Horticulture	15600 – 39100 AGP-6000 19810	20.11.2018	Contractual	Others
5	Subject Matter Specialist	-	-	-	-	-	-	-
6	Subject Matter Specialist	-	-	-	-	-	-	-
7	Subject Matter Specialist	-	-	-	-	-	-	-
8	Programme Assistant	Mr Pravat Kumar Sahoo	PA(Agriculture)	Soil Science	9300-34800 GP- 4200 12430	05.01.2016	Contractual	OBC
9	Computer Programmer	Sri Nihar Ranjan Baral	PA(Computer)	Computer	9300-34800 GP -4200 15100	15.07.2014	Contractual	Others
10	Farm Manager	Sri Rajesha Kumar Mohapatra	Farm Manager	Agriculture	9300-34800 GP- 4200 9300	01.02.2019	Contractual	Others

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)
11	Accountant / Superintendent	-	-	-	-	-	-	-
12	Stenographer	Sri Kishore Chandra Das	Jr. Steno cum Comp. Operator	-	5200-20200 GP- 2400, 8490	24.12.2013	Contractual	Others
13.	Driver	Sri Rajesh Ku. Behera	Driver cum Mechanic	-	5200-20200 GP- 1900, 7400	23.07.2008	Contractual	SC
14.	Driver	Sri Anirudha Gochhayat	Driver cum Mechanic	-	5200-20200 GP- 1900, 7400	07.07.2014	Contractual	SC
15.	Supporting staff	Sri Krushna chandra Bhujabal	Peon cum watchman	-	4440-7440 GP- 1700, 6290	29.07.2008	Contractual	Others
16.	Supporting staff	Bansidhar Parida	Peon cum watchman	-	4440-7440 GP- 1700, 7020	01.07.2014	Contractual	Others

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1.5
2.	Under Demonstration Units	1.5
3.	Under Crops	5
4.	Orchard/Agro-forestry	2.5
5.	Others with details	1.5
	Total	12

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					✓	552	Yes	ICAR
2.	Farmers Hostel					✓	305	Yes	ICAR
3.	Staff Quarters (6)					✓	265	Yes	ICAR
4.	Piggery unit								
5	Fencing								
6	Rain Water harvesting structure								
7	Threshing floor					✓			
8	Farm godown								
9.	Dairy unit								
10.	Poultry unit					✓			
11.	Goatary unit								
12.	Mushroom Lab								
13.	Mushroom production unit					✓			
14.	Shade house								
15.	Soil test Lab					✓			
16	Others,Please Specify								

** 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 DI 2WD OR02BR6228	2011	460534	177035	Needs major repair
Hero Honda Super Splendor OR 04G4022	2007	42782	54837	13 years old may be condemned

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Flame Photometer	2005	0.66	Bad	ICAR
BOD incubator	2005	1.42	Bad	ICAR
Automatic Nitrogen estimation system(Kelp) analyser	2005	3.57	Bad	ICAR
Distillation unit	2005	0.07	Good	ICAR
Hot air oven	2005	0.11	Good	ICAR
Electronic top pan balance	2005	0.95	Good	ICAR
Conductivity meter	2005	0.10	Bad	ICAR
pH meter	2005	0.10	Bad	ICAR
EC meter				
Spectrophotometer				
Mrida Parikshyak	2017	0.90	Good	ICAR
Mini Lab	2017	1.24	Good	ICAR
b. Farm machinery				
Tractor	2019	700000	Good	ICAR
c.AV Aids				
LCD Projector	2006-07		Spares are not available	ICAR
Digital camera	2009, 2015-16	27000	1 camera in working condition	ICAR
LED TV	2017-18	28000	Working	ICAR

D) Farm implements

Name of equipment	**Year of purchase**	**Cost (Rs.)**	**Present status**	**Source of fund**
Tractor	2019	6,84,854	Good	ICAR
Cage Wheel	2020	7,000	Good	ICAR

1.8. Details of SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.					

** 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-Pulse, Rice-Pulse-Vegetable, Rice-Vegetable, Vegetable-Vegetable
2	Agro-climatic Zone	East & South-East Costal Plane Zone
3	Agro ecological situation	Coastal Irrigated alluvium (AES-1) Rainfed alluvium (AES-2) Coastal alluvial saline (AES-3) Coastal waterlogged (AES-4)
4	Soil type	Alluvial (Sandy loam) Alluvial (Sandy loam) Saline Black Soil clay loam
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Rice Greengram Blackgram Groundnut
6	Mean yearly temperature, rainfall, humidity of the district	
7	Production of major livestock products like milk, egg, meat etc.	

Category	**Population**	**Production**	**Productivity**
Cattle			
Crossbred	29400	31000 MT/yr(milk)	
Indigenous	188728		
Buffalo	31735		
Sheep			
Crossbred	43367	324 MT/yr(meat)	
Indigenous			
Goats	104474		
Pigs			
Crossbred	9231		
Indigenous			
Rabbits			
Poultry			
Hens	301564	27 millions eggs/yr	

Category	Population	Production	Productivity
Desi			
Improved			
Ducks	94200		
Turkey and others			

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	Kendrapara	Marshaghai	Gajapitha	Rice, greengram , blackgram, groundnut, jute, mustard, brinjal, okra, tomato, cabbage, cauliflower, mushroom, poultry, apiary	Low yield in rice	IWM, INM, IPM, ICM
2		Patamundai	Gandakula		Low yield in pulses under rice fallow	INM, IPM, IWM
3		Mahakalpada	Itakandia		Low yield in groundnut due to weed	IWM
4		Derabish	Nilakanthapur		Low yield in vegetable	IPM, INM,
5		Rajnagar	Badakota		Low income from mushroom	Value addition
6		Derabish	Ender		Low body weight of backyard poultry	Health management, breed
7		Marshaghai	Raghunathpur			

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	Activities taken up for development

Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Assessment of herbicides for weed management in transplanted rice during Kharif
2.	Problem diagnosed	Lower yield due to high weed infestation and high cost due to manual weeding
3.	Details of technologies selected for assessment/refinement	Farmers Practice (FP)**:** Manual weeding ,No use of chemical herbicide Technology option-I (TO-I)**:** Pre émergence application of herbicide (Bensulfuron methyl 0.6%+ Pretilachlor 6.0%) @ 10 kg/ha at 4 DAT Technology option-II (TO-II)**:** Application of pendimethalin @ 750 g/ha as pre-emergence application i.e 0-3 DAT followed by Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAT
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	RRTTS, Ranital,Odisha, 2015
5.	Production system and thematic area	Rice-Pulse rainfed production system and IWM
6.	Performance of the Technology with performance indicators	Application of pendimethalin @ 750 g/ha as pre-emergence application i.e 0-3 DAT followed by Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAT resulted highest yield (39.1 q/ha) and yield attributing characters which, in turn, gives higher net return and B:C ratio (1.59).
7.	Final recommendation for micro level situation	Application of pendimethalin @ 750 g/ha as pre-emergence application i.e 0-3 DAT followed by Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAT is a viable weed management practice as far as economics is concerned.
8.	Constraints identified and feedback for research	New flush of weeds after 45 DAT necessitates research on broad spectrum herbicides having higher residual effectiveness
9.	Process of farmers participation and their reaction	Farmers are happy and actively participated in the programme.

Thematic area: IWM

Problem definition: Lower yield due to high weed infestation and high cost due to manual weeding

Technology assessed: Pre émergence application of herbicide (Bensulfuron methyl 0.6%+ Pretilachlor 6.0%) @ 10 kg/ha at 4 DAT

Technology option	**No. of trials**	**Yield component**			**Disease/ insect pest incidence (%)**	**Yield (q/ha)**	**Cost of cultivation (Rs./ha)**	**Gross return (Rs/ha)**	**Net return (Rs./ha)**	**BC ratio**
		No. of effective tillers/hill	**No. of spikelet per panicle**	**Test wt. (100 grain wt.)**						
FP	7	227	112	22.6	82.1	37.6	46500	69936	23436	1.50
TO-I	7	232	114	22.9	85.3	39.1	45700	72726	27026	1.59
TO-II	7	215	107	22.2	65.7	33.4	47300	62124	14824	1.31

Results: Application of pendimethalin @ 750 g/ha as pre-emergence application i.e 0-3 DAT followed by Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAT resulted highest yield (39.1 q/ha) and yield attributing characters which, in turn, gives higher net return and B:C ratio (1.59).

OFT-2

1.	Title of On farm Trial	Assessment of nutrient management in greengram
2.	Problem diagnosed	Lower yield due to improper nutrient management
3.	Details of technologies selected for assessment/refinement	Farmers Practice (FP)**:** Application of blanket dose of fertilizer only as basal ,No foliar nutrition Technology option-I (TO-I)**:** Application of 75% STBF +foliar application of WSF (18:18:18)@2% at pre-flowering and pod filling Technology option-II (TO-II)**:** Application of 75% STBF +foliar application of DAP @2% at pre-flowering and pod filling
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on Mullarp , 2014 AICRP on Mullarp,2017
5.	Production system and thematic area	Rice – Pulse production system and INM
6.	Performance of the Technology with performance indicators	Crop is at flowering stage. Result awaited
7.	Final recommendation for micro level situation	Result awaited
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	-

Thematic area: INM

Problem definition: Lower yield due to improper nutrient management

Technology assessed: Application of 75% STBF +foliar application of WSF (18:18:18)@2% at pre-flowering and pod filling

Results: Result awaited

OFT-3

1.	Title of On farm Trial	Assessment of YVMV tolerant okra varieties
2.	Problem diagnosed	Severe incidence of YMV, leading to total crop loss
3.	Details of technologies selected for assessment/refinement	Farmers Practice (FP)**:** Spraying of Thiomethoxam @ 0.2g/litr after incidence of the pest Technology option-I (TO-I)**:** Cultivation of YVMV tolerant variety Kashi Chaman (IC 0610502) (It is a yield potential variety developed through pedigree selection from Kashi Kranti × Punjab Padmini) Technology option-II (TO-II)**:** Cultivation of YVMV tolerant variety Kashi Lalima (IC 628076) (It is first reddish purple fruited yield potential variety in India. It is developed through pedigree selection from IC-93892 × VROR-150)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIVR-2018
5.	Production system and thematic area	Vegetable – vegetable, Irrigated, Varietal evaluation
6.	Performance of the Technology with performance indicators	YVMV(%), Fruit wt(g), No of fruits per plant, Yield (q/ha)
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Varietal evaluation

Problem definition: Severe incidence of YMV, leading to total crop loss

Technology assessed: Cultivation of YVMV tolerant variety Kashi Chaman (IC 0610502) (It is a yield potential variety developed through pedigree selection from Kashi Kranti × Punjab Padmini)

Technology option	**No. of trials**	**Yield component**		**YVMV (%)**	**Yield (q/ha)**	**% change in yield**	**Cost of cultivation (Rs./ha)**	**Gross return (Rs/ha)**	**Net return (Rs./ha)**	**BC ratio**
		No. of fruits / plant	**Fruit weight (gm)**							
FP	7				148		90600	207200	116600	2.29
TO-I	7				172	16.22	91500	240800	149300	2.63
TO-II	7				159	7.43	91500	222600	131100	2.43

Results:

OFT-4

1.	Title of On farm Trial	Assessment of papaya varieties for higher yield
2.	Problem diagnosed	High price of papaya seeds available in market.
3.	Details of technologies selected for assessment/refinement	Farmers Practice (FP)**:** Cultivation of hybrid varieties of papaya seeds available in the market. Technology option-I (TO-I)**:** Cultivation of Arka Surya (ICAR-IIHR), It is the offspring of Sunrise Solo x Pink Flesh Sweet. It was selected from F14 generation. Hence, seed can be produced by bagging the hermaphrodite flowers or by crossing the female flowers with hermaphrodite flowers. The plant is gynodioecious in nature with no male plants. Fruits resemble Sunrise Solo in shape. The plants are shorter compared to Solo. Skin is smooth, becomes uniformly yellow in colour on ripening. Fruits are medium in size of about 600 – 800 g with a small fruit cavity. Pulp is about 3 – 3.5 cm thick, deep red in colour and sweet with a T.S.S. of 13.5 – 15°brix. It does not have the odd flavour. Keeping quality of fruits is good. Yield per plant is approximately 55 – 65 kg (60 – 65t/acre). Technology option-II (TO-II)**:** Cultivation of Arka Prabhat (ICAR-IIHR), It is from the cross (Surya x Tainung-1) x Local Dwarf. It is gynodioecious in nature. The plants are semi-vigorous and bearing starts at a lower height (60-70 cm). Since the variety is gynodioecious, seed production is easy, as bagging of bisexual flowers ensures true to type plants. The pulp is firm (5.9 kg/cm^2) and colour is deep pink. The fruit weight on an average is 900-1200 g, the TSS is 13-14°Brix and yield per plant is 90-100 kg. The keeping quality is good.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR, Bangalore
5.	Production system and thematic area	Vegetable – vegetable, Irrigated, Varietal evaluation
6.	Performance of the Technology with performance indicators	No. of fruits/plant, Plant height, Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio,
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Varietal evaluation

Problem definition: High price of papaya seeds available in market.

Technology assessed: Cultivation of Arka Surya (ICAR-IIHR), It is the offspring of Sunrise Solo x Pink Flesh Sweet. It was selected from F14 generation. Hence, seed can be produced by bagging the hermaphrodite flowers or by crossing the female flowers with hermaphrodite flowers. The plant is gynodioecious in nature with no male plants. Fruits resemble Sunrise Solo in shape. The plants are shorter compared to Solo. Skin is smooth, becomes uniformly yellow in colour on ripening. Fruits are medium in size of about 600 – 800 g with a small fruit cavity. Pulp is about 3 – 3.5 cm thick, deep red in colour and sweet with a T.S.S. of 13.5 – 15°brix. It does not have the odd flavour. Keeping quality of fruits is good. Yield per plant is approximately 55 – 65 kg (60 – 65t/acre).

Results: Crop is vegetative stage

OFT-5

1.	Title of On farm Trial	Assessment of management of hawk moth in greengram
2.	Problem diagnosed	Low yield of greengram due to hawk moth infestation
3.	Details of technologies selected for assessment/refinement	Farmers Practice (FP)**:** Spraying of Chloropyriphos 20%EC @ 2ml/ltr after initiation of infestation Technology option-I (TO-I)**:** Alternate spraying of neem oil 3000 ppm @ 3 ml/ litre and Spinosad 45% EC @ 1ml / 3litres Technology option-II (TO-II)**:** Alternate spraying of neem oil 3000 ppm @ 3 ml/ litre and Indoxacarb 14.5% EC @ 0.5ml / litre.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Journal of Agriculture Science 20(3) : 655-656, 2007, UAS, Bangalore
5.	Production system and thematic area	Rice – pulse system, IPM
6.	Performance of the Technology with performance indicators	Yield, B:C ratio
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: IPM

Problem definition: Low yield of greengram due to hawk moth infestation

Technology assessed: Spraying of Chloropyriphos 20%EC @ 2ml/ltr after initiation of infestation

Technology option	No. of trials	Yield (q/ha)	% Increase	Gross Cost	Gross return (Rs./ha)	Net return (Rs./ha)	BC ratio
FP	7	4.5		19500	32382	12882	1.66
TO-I	7	5.6	24.4	21300	40297.6	19997.6	1.99
TO-II	7	5.1	13.3	20300	36699.6	15399.6	1.72

Results:

OFT-6

1.	Title of On farm Trial	Assessment of management of neck blast in rice
2.	Problem diagnosed	Low yield of rice due to blast infestation
3.	Details of technologies selected for assessment/refinement	Farmers Practice (FP)**:** Spraying of Tricyclazole 75% WP@ 0.6 gm / ltr after initiation of infestation Technology option-I (TO-I)**:** Seed treatment with carboxin 37.5%+ thiram 37.5% @ 2.5 gm/kg seed and alternate spraying foliar spraying of tricyclazole @ 300gm/ha and Kasugamycin 3% SL @ 1000ml / litretwice at 15 days interval starting from the initiation of disease recorded the lowest PDI and the highest grain yield. Technology option-II (TO-II)**:** Seed treatment with tricyclazole @ 3 gm/kg of seed and spraying of isoprothilane 40% EC @ 750 ml/ha and Kasugamycin 3% SL @ 1000ml / litre twice at 15 days interval starting from the initiation of disease recorded the lowest PDI and the highest grain yield.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	RRTTS, Bhubaneswar RRTTS ,Chiplima
5.	Production system and thematic area	Rice – pulse system, IDM
6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: IDM

Problem definition: Low yield of rice due to blast infestation

Technology assessed: Seed treatment with carboxin 37.5%+ thiram 37.5% @ 2.5 gm/kg seed and alternate spraying foliar spraying of tricyclazole @ 300gm/ha and Kasugamycin 3% SL @ 1000ml / litre twice at 15 days interval starting from the initiation of disease recorded the

Technology option	**No. of trials**	**Yield (q/ha)**	**% Increase**	**Gross Cost**	**Gross return (Rs./ha)**	**Net return (Rs./ha)**	**BC ratio**
FP	7	39		49200	72852	23652	1.48
TO-I	7	46.6	19.49	51600	87049	35448.8	1.69
TO-II	7	45.8	17.44	52500	85554	33054.4	1.63

Results:

OFT-7

1.	Title of On farm Trial	Assessment of secondary (Sulphur) /Micro (Boron) nutrient for curd quality and higher yield in cauliflower
2.	Problem diagnosed	Low curd keeping quality, flavour and yield due to secondary and micro nutrient deficiency
3.	Details of technologies selected for assessment/refinement	Farmers Practice (FP)**:** No application of secondary Sulphur) /Micro (Boron) nutrient. Emphasize only NPK fertilizers only. Technology option-I (TO-I)**:** STBR(NPK) + Sulphur @ 30 kg ha^{-1} as basal application Technology option-II (TO-II)**:** STBR (NPK) + Sulphur @ 30 kg ha^{-1} + 1 kg Boron as basal application Technology option-II (TO-III)**:** STBR (NPK) + 1 kg Boron as basal application
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on micronutrient and pollutant OUAT, Bhubaneswar, odisha,2016.
5.	Production system and thematic area	Rice – vegetable, Irrigated, Micronutrient deficiency in crop
6.	Performance of the Technology with performance indicators	Curd weight (gm), plant spread (cm), no. of days harvesting, soil test value (before sowing and after harvesting)
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Micronutrient deficiency in crop

Problem definition: Low curd keeping quality, flavour and yield due to secondary and micro nutrient deficiency

Technology assessed: STBR (NPK) + Sulphur @ 30 kg ha^{-1} + 1 kg Boron as basal application

Technology option	No. of trials	Yield (q/ha)	% increase in yield	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	280		80300	182000	101700	2.27
TO-I	7	315	12.5	81500	204750	123250	2.51
TO-II	7	340	21.43	82250	221000	138750	2.69
TO-III	7	322	15	81950	209300	127350	2.55

Results:

OFT-8

1.	Title of On farm Trial	Assessment of zinc deficiency in lowland rice
2.	Problem diagnosed	Low yield due to Zn deficiency
3.	Details of technologies selected for assessment/refinement	Farmers Practice (FP)**:** NPK Zn(60:45:30:0) Technology option-I (TO-I)**:** Soil Test Based Recommendation (STBR) NPK+ Zn @ 5 kg/ha Technology option-II (TO-II)**:** STBR NPK + 5t FYM ha^{-1} + Zn @ 2.5 kg ha^{-1}
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on LTFE OUAT, Bhubaneswar, odisha, 2017 AICRP on micronutrient and pollutant OUAT, Bhubaneswar, odisha,2016.
5.	Production system and thematic area	Rice – pulse, Rainfed , Micronutrient deficiency in crops
6.	Performance of the Technology with performance indicators	Initial and after harvest soil test value, Root growth(cm), Plant height, No. of tillers m2, No. of filled grain per panicle, 1000 grain weight (gm)
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Micronutrient deficiency in crops

Problem definition: Low yield due to Zn deficiency

Technology assessed: STBR NPK + 5t FYM ha^{-1} + Zn @ 2.5 kg $ha^{-1.}$

Technology option	**No. of trials**	**Yield component**			**Yield (q/ha)**	**Cost of cultivation (Rs./ha)**	**Gross return (Rs/ha)**	**Net return (Rs./ha)**	**BC ratio**
		No. of effective tillers/hill	**No. of spikelet per panicle**	**Test wt. (100 grain wt.)**					
FP	7	227	112	22.6	37.6	51500	69936	15455	1.36
TO-I	7	215	107	22.2	39.1	50700	72726	22346	1.43
TO-II	7	232	114	22.9	41.4	50900	77004	25092	1.51

Results:

OFT-9

1.	Title of On farm Trial	Assessment of production of Dyed Jute fibre for value addition in jute
2.	Problem diagnosed	Poor market value of jute fibre
3.	Details of technologies selected for assessment/refinement	Farmers Practice (FP)**:** No Value addition of jute and less demand for crude fibre Technology option-I (TO-I)**:** Preparation of white jute fibre Technology option-II (TO-II)**:** Preparation of coloured fibre
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CRIJAF, 2014
5.	Production system and thematic area	Jute – vegetable, Rainfed, Value addition
6.	Performance of the Technology with performance indicators	Quality of Fibre , Cost, net Return and B: C ratio
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area:

Problem definition: Poor market value of jute fibre

Technology assessed: Preparation of coloured fibre

Technology option	No. of trials	Quality of Fibre	Cost (Rs./q)	Net return (Rs./q)	BC ratio
FP		Average colour	2884	5000	1.73
TO-I		Good colour	12000	40000	3.33
TO-II		Very good colour	18000	70000	3.89

Results:

OFT-10

1.	Title of On farm Trial	Assessment of Packaging Practices of *V. volvaceae*
2.	Problem diagnosed	Low income due to short shelf life
3.	Details of technologies selected for assessment/refinement	Farmers Practice (FP)**:** No packaging practices adopted by the farmer. Technology option-I (TO-I)**:** Fresh Mushrooms Buds washed with potassium meta bisulphite (KMS 0.1% and 0.1% citric acid,) for 10 minutes and allowed to air dry on muslin cloth for 30 min and then packed in perforated polypropylene bags punched with 10 holes stored at room temperature Technology option-II (TO-II)**:** Fresh Mushrooms Buds treated with potassium meta bisulphite (KMS 0.1% and o.1% citric acid,) for 10 minutes and allowed to air dry on muslin cloth for 30 min and then packed in paper Bags punched with 10 holes (0.5 cm diameter) stored at room temperature
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	PAU, 2010
5.	Production system and thematic area	Enterprise, Packing of mushroom
6.	Performance of the Technology with performance indicators	Sensory Evaluation, Weight loss(%),Shelf life, Cost, Net Return and B: C ratio
7.	Final recommendation for micro level situation	Easy method of packaging practices of *V. volvaceae*
8.	Constraints identified and feedback for research	Non availability of chemicals in the local market.
9.	Process of farmers participation and their reaction	Farm women showed keen interest in the technology

Thematic area: Packing of mushroom

Problem definition: Low income due to short shelf life

Technology assessed: Fresh Mushrooms Buds treated with potassium meta bisulphite (KMS 0.1% and o.1% citric acid,) for 10 minutes and allowed to air dry on muslin cloth for 30 min and then packed in paper Bags punched with 10 holes (0.5 cm diameter) stored at room temperature

Technology option	No. of trials	Sensory Attributes						Shelf life	Yield / bed	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Appearance	Color	Flavor	Texture	Taste	Overall acceptance						
FP	7							12 hours	0.75	60	105	45	1.75
TO-I	7	7.75	7.67	8	8.83	8.67	8.75	14 hours	1.2	78	168	90	2.15
TO-II	7	7.9	7.8	9	8.9	8.7	8.9	18 hours	1.2	75	168	93	2.24

Results:

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	ICM	Cultivation of BPH tolerant rice variety Hasant	2	2	3	0	0	0	7	0	10	0	10	
2.	Jute	Post harvest management	Use of CRIJAF SONA for improved retting of jute	2	2	2	0	0	0	8	0	10	0	10	
3.	Blackgram	IWM	Pendimethalin @ 1 kg/ha as pre emergence at 1-2 DAS followed by Imazethapyr @ 75 g/ha as post emergence at 20 DAS	2	2	2	0	0	0	6	2	8	2	10	
4.	Toria	INM	Foliar application of Thiourea in Toria	2	2	2	0	0	0	8	0	10	0	10	
5.	Brinjal	Varietal evaluation	Cultivation of brinjal variety Swarna Shyamali	0.4	0.4	3				7		10		10	
6.	Mango	INM	Application of paclobutrazol for flowering regulation in mango	0.4	0.4	3				7		10		10	
7.	Marigold	Varietal evaluation	Cultivation of marigold variety Bidhan Marigold 2	0.4	0.4					9	1	9	1	10	
8.	Tomato	Varietal evaluation	Cultivation of triple disease resistant variety Arka Samrat	0.4	0.4	1				9		10		10	
9.	Tomato	INM	INM in Tomato by application of recommended dose of fertilizers (120:60:80 kg/ha) + FYM@10 t/ha + S @ 25kg/ha.	1	1	1	0	0	0	9	0	10	0	10	
10.	Okra	INM	Use of Arka vegetable micronutrient formulation @10-20g /lit water after flowering.	1	1	0	0	0	0	10	0	10	0	10	

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	
11.	Blackgram	INM	Application of RDF of Blackgram in shape of DAP and MOP at PI stage of black gram and foliar application of 1% DAP+1% MOP at 20 and 40 DAS of Blackgram	5	5	0	0	0	0	10	0	10	0	10	
12.	Bitter gourd	INM	Application of 75% RDF + vermicompost (2.5 ton / ha) + Azotobator : Azospirillum : PSB @ 1:1:1 @ 4 kg/ha applied 3 time (basal, 30 days & 45 days) resulted maximum yield in bitter gourd	1	1	4	0	0	0	6	0	10	0	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P_2O_5	K_2O					
Rice	Kharif	Rainfed, Medium land, transplanted rice	Alluvial	130.2-236.4	7.4 – 12.8	125.2 – 186.8	Green gram	17.8.20	23.12.20	572	42
Jute	Kharif	Rainfed, Medium land, Jute – Rice – Pulse system	Clay loam	128.7 - 240.3	7.7 – 13.6	132.7 – 194.4	Fallow	24.4.20	13.7.20	584	46
Blackgram	Rabi	Rainfed, Low land, Jute – Rice – Pulse system	Alluvial	128.2-235.5	7.1 – 14.4	127.5 – 181.3	Rice	6.2.21	On going	46	6
Toria	Rabi	Rainfed, Low land, Rice – Toria system	Sandy loam	119.5 – 214.7	8.2-13.9	123.8 – 190.9	Rice	21.11.20	23.2.21	49	8
Brinjal	Kharif	Irrigated, Upland, vegetable-vegetable	Sandy loam	212-255.9	11.3-14.3	116-185.	Vegetable	13.08.2020	28.03.21		

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					
Mango	Kharif	Rainfed, Upland, Orchard	Loamy Soil	118.5-268.2	12.4-15.9	133.9-185.4	Orchard	29.09.2020	On going		
Marigold	Rabi	Irrigated, Upland, vegetable-Flower	Sandy loam	156.2-285.9	14.1-16.2	123.8-193.1	Cow pea	27.10.2020	18.02.2021		
Tomato	Rabi	Irrigated, Upland, vegetable-vegetable	Sandy loam	155.3 – 293.5	13.1-17.6	121.2-191-7	Okra	23.11.2020	On going		
Tomato	Rabi	Irrigated, Upland, Rice -vegetable	Sandy loam	119.5 – 214.7	8.2-13.9	123.8 – 190.9	Rice	19.11.2020	16.03.2020		
Okra	Rabi	Irrigated, Upland, vegetable -vegetable	Alluvial	128.2-235.5	7.1 – 14.4	127.5 – 181.3	Vegetable	18.07.2020	20.11.2020		
Blackgram	Rabi	Irrigated, Upland, Rice -vegetable	Clay loam	128.7 - 240.3	7.7 – 13.6	132.7 – 194.4	Rice	01.01.2021	22.03.2021		
Bitter gourd	Rabi	Irrigated, Upland, Rice -vegetable	Alluvial	128.2-235.5	7.1 – 14.4	127.5 – 181.3	Rice	26.11.2020	25.03.2021		

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

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

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

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

** BCR= GROSS RETURN/GROSS COST

Pulses

Frontline demonstration on pulse crops

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

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

** BCR= GROSS RETURN/GROSS COST

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rice	ICM	Cultivation of BPH tolerant rice variety Hasant	10	2	40.6	36.3	11.84	4(BPH /Hill)	23	46500	75516	29016	1.62	44500	67518	23018	1.51
Jute	PHM	Use of CRIJAF SONA for improved retting of jute	10	2	23.4	21.4	9.30	Strong and white fibre	Medium strength and brown fibre	58400	109980	51580	1.88	56500	100580	44080	1.78
Black gram	IWM	Pendimethalin @ 1 kg/ha as pre emergence at 1-2 DAS followed by Imazethapyr @ 75 g/ha as post emergence at 20 DAS	10	2	Result awaited												

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Toria	INM	Foliar application of Thiourea in Toria	10	2	11.2	10.1	10.57	More no of siliqua	Less no of siliqua	28300	49280	20980	1.74	27500	44440	16940	1.61
Brinjal	Varietal evaluation	Cultivation of brinjal variety Swarna Shyamali	10	0.4	410	322	27.33			99900	287000	187100	2.87	97700	225400	127700	2.31
Mango	INM	Application of paclobutrazol for flowering regulation in mango	10	0.4	Result awaited												
Marigold	Varietal evaluation	Cultivation of marigold variety Bidhan Marigold 2	10	0.4	193	149	29.53			175290	636900	461610	3.63	142300	498300	356000	3.4
Tomato	Varietal evaluation	Cultivation of triple disease resistant variety Arka Samrat	10	0.4	513	425	20.71			121830	307800	185970	2.53	116210	255000	138790	2.19
Rice	IPM	Demonstration on integrated management practices against BPH / WBPH in rice	10	0.4	44.3	38	16.58			52500	82752	30252	1.58	49200	70984	21784	1.44
Okra	IDM	Demonstration on integrated management of YMV in Okra	10	0.4	386	360				115800	308800	193000	2.67	114620	288000	173380	2.51

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Tomato	IPM	Demonstration on integrated pest management against serpentine leaf minor in tomato	10	0.4	180	148				91500	252000	160500	2.75	90600	207200	116600	2.29
Coconut	IPM	Demonstration on integrated management red palm weevil in coconut	10	Result awaited													
Tomato	INM	Demonstration of INM for higher yield in tomato	10	1	410	350	17.14			119830	287000	167170	2.40	116620	245000	128380	2.10
Okra	INM	Demonstration on application of micronutrient mixture for increasing yield in okra	10	1	120	135	12.50			91500	229500	138000	2.51	90600	204000	113400	2.25
Blackgram	INM	Demonstration of nutrient management in blackgram	10	1	5.2	6.1	17.30			16200	32940	16740	2.03	16900	28080	11180	1.66
Bitter gourd	INM	Demonstration of nutrient management in bitter gourd	10	1	92	112	21.74			182000	448000	266000	2.46	177000	368000	191000	2.08

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Nutritional Sensitive Organic Kitchen Garden	Nutritional garden	Nutritional Sensitive Organic Kitchen Garden (0.08ha) with multiple crops including annuals, perennials	10	648 m^2	2650	976	171.52			19112	53339.7	34228	2.79	13388	28675.8	15287.8	2.14
Total																	

Livestock

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

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

** BCR= GROSS RETURN/GROSS COST

Fisheries

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

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

** BCR= GROSS RETURN/GROSS COST

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Value addition by pickle making	10	10	More return due to value addition	Mushroom sold at less cost	376%	Sensory evaluation, more shelf life, higher Net return and B:C	Sensory evaluation, Less shelf life, lower Net return and B:C	140/ 1.5 kg from 1 bag	450/ 1.5 kg from 1 bag	310	3.21	40 / bag	105/ bag	65	2.63
Paddy straw mushroom	Enterprise development	10	10	0.5	0.4	25	Days to first flush 13-14, Size of fruiting body	Days to first flush 14-15, Size of fruiting body	35	70	35	2.00	35	56	21	1.60

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
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Dal processing	Enterprise development	10	1	Value addition, Labour saving, , time saving	Low cost of produce, labour intensive, time consuming	30% 80%	Capacity of dal processor, infestation of stored grain pest Higher Net return and B:C	Grain is sold, more infestation of stored grain pest Lower Net return and B:C	32246	42952	10706	1.33	25166	33040	12594	0.13
Total																

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

** BCR= GROSS RETURN/GROSS COST

Women empowerment

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

Farm implements and machinery

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

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

** BCR= GROSS RETURN/GROSS COST

Demonstration details on crop hybrids

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

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
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)										

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
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl. specify)										
Total										

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	10.09.2020	01	30	Field day on Improved jute retting technology using CRIJAF SONA
		19.11.2020	01	50	Field day on BPH tolerant rice variety HASANT
		8.2.2021	01	30	Field day on foliar nutrition of toria
2.	Farmers Training				
3.	Media coverage				
4.	Training for extension functionaries				

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2020 and 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	Local	4.3	403	365	800	IPM 2-14 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	25	10	5.8	4.8	5.3	-	-	38
2	Blackgram	Local	4.2	395	350	750	PU 31 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	25	10	6.0	5.3	5.65	-	-	43
3	Mustard	Local	8.8	7500	6800	1460	Anuradha variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	25	10	9.9	11.3	10.6	-	-	35
4	Sunflower	TLS	Continuing in summer 2021												

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	IPM 2-14 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	21500	30100	8600	1.40	24500	37100	12600	1.51
2	PU 31 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	21000	30200	9200	1.43	26000	40300	14300	1.55
3	Anuradha variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	27000	38720	11720	1.43	29500	46640	17140	1.58

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	IPM 2-14 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	540	400	70	70	90	Day today need	32

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)
2	Blackgram: PU 31 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	570	400	70	60	110	Day-to-day need	34
3	Anuradha variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	1080	750	45	80	250	Day today need	31

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	IPM 2-14 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	Very much suitable	Yes	Yes	No	Yes	Establishment of processing unit and value addition

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
2	PU 31 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer manageme	Very much suitable	Yes	Yes	No	Yes	Establishment of processing unit and value addition
3	Anuradha variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	Very much suitable	Yes	Yes	No	Yes	Establishment of oil extraction unit and value addition

B. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Variety IPM 2-14 which is resistant to YMV	Improved management practices enhanced the yield upto 5.8q/ha	Increase in yield of 32 % over the local check	Farmers are satisfied with the variety and technology
Variety PU 31 which is resistant to YMV	Improved management practices enhanced the yield upto 6 q/ha	Increase in yield of 34 % over the local check	Farmers are satisfied with the variety and technology
Anuradha responded well in residual soil moisture	Improved management practices enhanced the yield upto 11.3 q/ha	Increase in yield of 28 % over the local check	Farmers are satisfied with the variety and technology

C. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Field day	03. 03. 2021, Kasotibali, Marshaghai	50
2	Field day	24. 02. 2021, Ratanpur, Marshaghai	50
3	Field day	07. 03. 2021, Nagaripada, Garadpur	50
4	Field day	26. 03. 2021, Suniti, Mahakalapara	50

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

E. Farmers' training photographs

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

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Pulse	i) Critical input	160920	160920	Nil
	ii) TA/DA/POL etc. for monitoring	8000	8000	Nil
	iii) Extension Activities (Field day)	7500	7500	Nil
	iv)Publication of literature/ Misc	2380	2380	Nil
	Total	178800	178800	Nil
Oilseeds	i) Critical input	162000	162000	Nil
	ii) TA/DA/POL etc. for monitoring	6000	6000	Nil
	iii) Extension Activities (Field day)	7500	7500	Nil
	iv)Publication of literature/Misc	4500	4500	Nil
	Total	180000	180000	Nil

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													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising	1	17	2	19	3	3	6	0	0	0	20	5	25

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

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													
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													

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
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													

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
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, 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													

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
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													
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													

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
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													

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													
Mushroom Spawn Production	1	0	10	10	0	5	5	0	0	0	0	15	15
Bee-keeping													
Integrated farming													
Seed production	1	11	1	12	2	1	3	0	0	0	13	2	15
Production of organic inputs	3	33	3	36	8	1	9	0	0	0	41	4	45
Integrated Farming													
Planting material production	2	21	3	24	6	0	6	0	0	0	27	3	30
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
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													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition	1	0	13	13	0	2	2	0	0	0	0	15	15
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Enterprise development													
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													

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 pest management	2	27	0	27	3	0	3	0	0	0	27	3	30
TOTAL													

B) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	1	2	6	8	1	1	2	0	0	0	3	7	10
Value addition													
Integrated Pest Management	2	15	5	20	0	0	0	0	0	0	15	5	20
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology	1	3	3	6	2	2	4	0	0	0	5	5	10
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	1	5	4	9	1	0	0	0	0	0	6	4	10

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
Gender mainstreaming through SHGs													
Seed production	1	0	10	10	0	0	0	0	0	0	0	10	10
Mushroom cultivation	1	0	8	8	0	2	2	0	0	0	0	10	10
Soil and water testing	2	15	5	20	0	0	0	0	0	0	15	5	20
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	07	55	49	104	28	33	61	06	04	10	89	86	175
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management	02	17	15	32	10	08	18	0	0	0	27	23	50
Fodder production													
Production of organic inputs													
Integrated Nutrient Management	05	54	33	87	21	12	33	03	02	05	78	47	125
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	1	30	1	31	17	2	29	0	0	0	47	3	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	1	16	0	16	8	1	9	0	0	0	24	1	25
Enterprise development	1	6	1	7	8	10	18	0	0	0	14	11	25
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Seed production	1	6	6	12	0	13	13	0	0	0	6	19	25
Training and Pruning													
Organic farming	1	0	25	25	0	0	0	0	0	0	0	25	25
b) Fruits													
Layout and Management of Orchards	1	18	1	19	6	0	6	0	0	0	24	1	25
Cultivation of Fruit	1	19	0	19	0	6	6	0	0	0	19	6	25
Management of young plants/orchards													
Rejuvenation of old orchards	1	16	0	16	9	0	9	0	0	0	25	0	25
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													

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 of ornamental plants													
Propagation techniques of Ornamental Plants	1	11	6	17	5	3	8	0	0	0	16	9	25
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology	1	2	3	5	9	11	20	0	0	0	11	14	25
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology	1	17	3	20	2	3	5	0	0	0	19	6	25
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	4	51	13	64	19	17	36	0	0	0	70	30	100
Soil and Water Conservation													
Integrated Nutrient Management	3	44	5	49	6	19	25	0	1	1	50	25	75
Production and use of organic inputs	1	25	0	25	0	0	0	0	0	0	25	0	25
Management of Problematic soils													
Micro nutrient deficiency in crops	4	86	10	96	4	0	4	0	0	0	90	10	100

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
Nutrient Use Efficiency													
Soil and Water Testing	2	43	0	43	7	0	7	0	0	0	50	0	50
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	1	0	17	17	0	8	8	0	0	0	0	25	25
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	5	0	109	109	0	16	16	0	0	0	0	125	125
Income generation activities for empowerment of rural 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
Location specific drudgery reduction technologies													
Rural Crafts	1	0	21	21	0	4	4	0	0	0	0	25	25
Capacity building													
Women and child care													
Post harvest management	3	0	67	67	0	8	8	0	0	0	0	75	75
Poultry farming	1	0	23	23	0	2	2	0	0	0	0	25	25
Mushroom cultivation	1	0	25	25	0	0	0	0	0	0	0	25	25
Vermicomposting	1	0	25	25	0	0	0	0	0	0	0	25	25
Beekeeping	1	0	25	25	0	0	0	0	0	0	0	25	25
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
VII. Plant Protection													
Integrated Pest Management	11	185	62	247	7	21	28	0	0	0	192	83	275
Integrated Disease Management	3	20	22	42	30	3	33	0	0	0	50	25	75
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													

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
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													

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													
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													
Ornamental fisheries													
Para vets													
Para extension workers													

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
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													
Others, if any													
TOTAL													

F) Extension Personnel (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													

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
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													
TOTAL													

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
I. Crop Production													
Weed Management	7	55	49	104	28	33	61	6	4	10	89	86	175
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed 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
Nursery management													
Integrated Crop Management	2	17	15	32	10	8	18	0	0	0	27	23	50
Fodder production													
Production of organic inputs													
Integrated Nutrient Management	5	54	33	87	21	12	33	3	2	5	78	47	125
TOTAL	**14**	**126**	**97**	**223**	**59**	**53**	**112**	**9**	**6**	**15**	**194**	**156**	**350**
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	2	30	1	31	17	2	19	0	0	0	47	3	50
Water management	1	16	0	16	8	1	9	0	0	0	24	1	25
Enterprise development	1	6	1	7	8	10	18	0	0	0	14	11	25
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising	1	17	2	19	3	3	6	0	0	0	20	5	25
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Seed production	1	6	6	12	0	13	13	0	0	0	6	19	25
Organic farming	1	0	25	25	0	0	0	0	0	0	0	25	25
TOTAL	**7**	**75**	**35**	**110**	**36**	**29**	**65**	**0**	**0**	**0**	**111**	**64**	**175**
b) Fruits													
Training and Pruning													
Layout and Management of Orchards	1	18	1	19	6	0	6	0	0	0	24	1	25
Cultivation of Fruit	1	19	0	19	0	6	6	0	0	0	19	6	25

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Management of young plants/orchards													
Rejuvenation of old orchards	1	16	0	16	9	0	9	0	0	0	25	0	25
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques	1	11	6	17	5	3	8	0	0	0	16	9	25
Others, if any(INM)													
TOTAL	**4**	**64**	**7**	**71**	**20**	**9**	**29**	**0**	**0**	**0**	**84**	**16**	**100**
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													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology	1	2	3	5	9	11	20	0	0	0	11	14	25
Processing and value addition													
Others, if any													
TOTAL	**1**	**2**	**3**	**5**	**9**	**11**	**20**	**0**	**0**	**0**	**11**	**14**	**25**
f) Spices													
Production and Management technology	1	17	3	20	2	3	5	0	0	0	19	6	25
Processing and value addition													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others, if any													
TOTAL	**1**	**17**	**3**	**20**	**2**	**3**	**5**	**0**	**0**	**0**	**19**	**6**	**25**
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	4	51	13	64	19	17	36	0	0	0	70	30	100
Soil and Water Conservation													
Integrated Nutrient Management	3	44	5	49	6	19	25	0	1	1	50	25	75
Production and use of organic inputs	1	25	0	25	0	0	0	0	0	0	25	0	25
Management of Problematic soils													
Micro nutrient deficiency in crops	4	86	10	96	4	0	4	0	0	0	90	10	100
Nutrient Use Efficiency													
Soil and Water Testing	2	43	0	43	7	0	7	0	0	0	50	0	50
Others, if any													
TOTAL	**14**	**249**	**28**	**277**	**36**	**36**	**72**	**0**	**1**	**1**	**285**	**65**	**350**
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others, if any (Goat farming)													
TOTAL													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	1	0	17	17	0	8	8	0	0	0	0	25	25
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	5	0	109	109	0	16	16	0	0	0	0	125	125
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts	1	0	21	21	0	4	4	0	0	0	0	25	25
Capacity building													
Women and child care													
Post harvest management	3	0	67	67	0	8	8	0	0	0	0	75	75
Poultry farming	1	0	23	23	0	2	2	0	0	0	0	25	25
Mushroom cultivation	1	0	25	25	0	0	0	0	0	0	0	25	25
Vermicomposting	1	0	25	25	0	0	0	0	0	0	0	25	25
Beekeeping	1	0	25	25	0	0	0	0	0	0	0	25	25
TOTAL	**14**	**0**	**312**	**312**	**0**	**38**	**38**	**0**	**0**	**0**	**0**	**350**	**350**
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
TOTAL													
VII. Plant Protection													
Integrated Pest Management	11	185	62	247	7	21	28	0	0	0	192	83	275
Integrated Disease Management	3	20	22	42	30	3	33	0	0	0	50	25	75
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL	**14**	**205**	**84**	**289**	**37**	**24**	**61**	**0**	**0**	**0**	**242**	**108**	**350**
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													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others, if any													
TOTAL													
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													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													

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 technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. specify)													
TOTAL	**69**	**738**	**569**	**1307**	**199**	**203**	**402**	**9**	**7**	**16**	**946**	**779**	**1725**

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													
Mushroom Spawn Production	1	0	10	10	0	5	5	0	0	0	0	15	15
Bee-keeping													
Integrated farming													
Seed production	1	11	1	12	2	1	3	0	0	0	13	2	15
Production of organic inputs	3	33	3	36	8	1	9	0	0	0	41	4	45
Planting material production	2	21	3	24	6	0	6	0	0	0	27	3	30
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition	1	0	13	13	0	2	2	0	0	0	0	15	15

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
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													
Enterprise development													
Integrated pest management	2	27	0	27	3	0	3	0	0	0	27	3	30
TOTAL	**10**	**92**	**30**	**122**	**19**	**9**	**28**	**0**	**0**	**0**	**108**	**42**	**150**

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	1	2	6	8	1	1	2	0	0	0	3	7	10
Integrated Pest Management	2	15	5	20	0	0	0	0	0	0	15	5	20
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology	1	3	3	6	2	2	4	0	0	0	5	5	10
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	1	5	4	9	1	0	0	0	0	0	6	4	10
Gender mainstreaming through SHGs													
Crop intensification													
Seed production	1	0	10	10	0	0	0	0	0	0	0	10	10
Mushroom cultivation	1	0	8	8	0	2	2	0	0	0	0	10	10
Soil and water testing	2	15	5	20	0	0	0	0	0	0	15	5	20
TOTAL	**9**	**40**	**41**	**81**	**4**	**5**	**8**	**0**	**0**	**0**	**44**	**46**	**90**

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agronomy	F&FW	Production technology of Saline tolerant variety	01	Off	17	08	25	03	02	05
Agronomy	F&FW	Method & time of application of herbicide in rice	01	Off	12	13	25	07	02	09
Agronomy	F&FW	Mechanical and cultural methods of weed management in rice	01	Off	09	16	25	05	03	08
Agronomy	F&FW	Selective post emergence herbicides for weed management in green gram	01	Off	11	14	25	07	00	07
Agronomy	F&FW	Types of nozzle, sprayer and spraying techniques of herbicides in pulses	01	Off	04	21	25	00	09	09
Agronomy	F&FW	Micronutrient nutrient management in blackgram	01	Off	10	15	25	02	06	08
Agronomy	F&FW	Use biofertilizers in pulses to enhance production	01	Off	12	13	25	01	04	05
Agronomy	F&FW	Chemical weed management in groundnut	01	Off	11	14	25	03	03	06
Agronomy	F&FW	Physiological disorder , its Symptoms and their management in groundnut	01	Off	08	17	25	04	02	06
Agronomy	F&FW	Management of Sulpher for increasing oil content in rapeseed	01	Off	16	09	25	03	05	08
Agronomy	F&FW	Improved retting techniques in jute by using CRIJAF SONA.	01	Off	12	13	25	04	03	07
Agronomy	F&FW	Weed management in Jute to improve fibre yield	01	Off	08	17	25	00	00	00
Agronomy	F&FW	Integrated nutrient management in toria	01	Off	03	22	25	02	21	23
Agronomy	F&FW	Integrated weed management in blackgram	01	Off	14	11	25	04	02	06

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agronomy	Rural youth	Methods of preparation of organic bio products	02	On	13	02	15	02	01	03
Agronomy	Rural Youth	Organic farming and its benefits	02	On	11	04	15	03	01	04
Agronomy	Inservice	Hybrid seed production in Paddy	01	On	07	03	10	01	01	02
Agronomy	Inservice	Zero budget natural farming	01	on	06	04	10	01	00	01
Horticulture	F&FW	Planting time & method of planting by application of mulching in Ginger.	1	Off	17	3	20	2	3	5
Horticulture	F&FW	Method of tuber treatment before planting of tuber crop and complete package & practice.	1	Off	2	3	5	9	11	20
Horticulture	F&FW	Planning, lay out and establishment of coconut orchard.	1	Off	18	1	19	6	0	6
Horticulture	F&FW	Methods of crop regulation in mango.	1	Off	16	0	16	9	0	9
Horticulture	F&FW	Seed treatment and INM of okra.	1	Off	14	0	14	11	0	11
Horticulture	F&FW	Training on ultra high density pusa dwarf papaya orchard establishment and aftercare.	1	Off	19	0	19	6	0	6
Horticulture	F&FW	Offseason cultivation of marigold and QPM production.	1	Off	11	6	17	5	3	8
Horticulture	F&FW	Vegetable seedling production in portray with media of cocopit & vermicomost.	1	On	17	2	19	3	3	6
Horticulture	F&FW	Tomato cultivation in trellis and mulching.	1	Off	16	0	16	8	1	9
Horticulture	F&FW	Scientific cultivation of cucurbitaceous crops for proper pollination by maintaining male female ratio.	1	Off	14	3	17	7	1	8

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	F&FW	INM in banana.	1	Off	16	1	17	6	2	8
Horticulture	F&FW	Organic vegetable cultivation, by using organic inputs like neem, castor cake etc	1	Off	25	0	25	0	0	0
Horticulture	F&FW	Value added product preparation of pumpkin	1	Off	6	1	7	8	10	25
Horticulture	F&FW	Tomato seed production	1	Off	6	6	12	0	13	13
Horticulture	RY	QPM production of papaya in portrays & sleeve nursery.	2	On	9	3	12	3	0	3
Horticulture	RY	QPM production of pointed gourd in proper suitable media	2	On	12	0	12	3	0	3
Horticulture	IS	Roof top garden establishment & it's management.	1	On	3	3	6	2	2	4
Plant protection	F&FW	Fruit fly management in cucurbits	1	Off	0	4	4	0	21	21
Plant protection	F&FW	Management of locust	1	Off	21	3	24	1	0	1
Plant protection	F&FW	Sucking pest management in okra	1	Off	25	0	25	0	0	0
Plant protection	F&FW	Management of blast disease in rice	1	Off	19	0	19	6	0	6
Plant protection	F&FW	Management of BPH and WBPH in rice	1	Off	25	0	25	0	0	0
Plant protection	F&FW	Rhinoceros beetle and red-palm weevil management in coconut	1	Off	25	0	25	0	0	0
Plant protection	F&FW	Pest management in cole crops	1	Off	22	0	22	3	0	3
Plant	F&FW	Management of pest in Mango	1	Off	4	0	4	0	21	21

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
protection										
Plant protection	F&FW	Sucking pest management in chilli	1	Off	22	0	22	3	0	3
Plant protection	F&FW	Wilt management in solaneceous vegetable	1	Off	11	0	11	14	0	14
Plant protection	F&FW	Use of traps for management of pest in vegetables	1	Off	16	9	25	0	0	0
Plant protection	F&FW	Management of fungal disease in ground nut	1	Off	22	0	22	3	0	3
Plant protection	F&FW	Hawk moth management in greengram	1	Off	25	0	25	0	0	0
Plant protection	F&FW	Fruit and shoot borer management in brinjal	1	Off	25	0	25	0	0	0
Plant protection	RY	Use of traps in pest management	1	On	13	0	13	2	0	2
Plant protection	RY	Preparation of bio-pesticides	1	On	14	0	14	1	0	1
Plant protection	IS	Use of traps in vegetable pest management	1	On	8	2	10	0	0	0
Plant protection	IS	Integrated pest management in pulses	1	On	7	3	10	0	0	0
Home Science	F&FW	Value addition of milk	2	Off	0	25	25	0	6	6
Home Science	F&FW	Paddy straw mushroom cultivation in semi-shade condition	1	Off	0	25	25	0	0	0
Home Science	F&FW	Preparation of preserved products from tomato & chilli	1	Off	0	25	25	0	3	3

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
Home Science	F&FW	Preparation of different mushroom pickles	1	Off	0	25	25	0	4	4
Home Science	F&FW	Value addition of jute from raw jute	1	Off	0	25	25	0	2	2
Home Science	F&FW	Different packaging practices for enhancing shelf life of paddy straw mushroom	1	Off	0	25	25	0	8	8
Home Science	F&FW	Processing & value addition & packaging of greengram	1	Off	0	25	25	0	0	0
Home Science	F&FW	Backyard duckery for income generation	1	Off	0	25	25	0	2	2
Home Science	F&FW	Low cost storage techniques of seeds (pulses)	1	Off	0	25	25	0	0	0
Home Science	F&FW	Dehydration and value addition of oyster mushroom	1	Off	0	25	25	0	1	1
Home Science	F&FW	Scope and importance of nutritional gardening for augmenting nutritional requirement & its feasibility in coastal areas	1	Off	0	25	25	0	8	8
Home Science	F&FW	Promotion of livelihood support through different golden grass crafts	1	Off	0	25	25	0	4	4
Home Science	F&FW	Popularization of beekeeping for sustained income generation	1	Off	0	25	25	0	0	0
Home Science	F&FW	Vermicomposting an income generation activity by women SHGs from spent mushroom straw	1	Off	0	25	25	0	0	0
Home Science	RY	Mushroom recipes preparation	1	On	0	15	15	0	2	2

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
Home Science	RY	Mushroom spawn production	1	On	0	15	15	0	5	5
Home Science	IS	Production techniques of tomato seed	1	On	0	10	10	0	0	0
Home Science	IS	Off season mushroom cultivation	1	On	0	10	10	0	2	2
Soil Science	F&FW	Nutrient Management in pulse crops.	1	Off	22	3	25	0	0	0
Soil Science	F&FW	Use of micronutrient mixture for increasing fruit yield in okra	1	Off	21	0	21	4	0	4
Soil Science	F&FW	Production of Vermiculture & Vermiwash for sustainable Agriculture	1	Off	25	0	25	0	0	0
Soil Science	F&FW	Role of Zinc to enhance yield of Rice	1	Off	25	0	25	0	0	0
Soil Science	F&FW	Use of Soil health card for sustainable crop production.	1	Off	18	0	18	7	0	7
Soil Science	F&FW	Importance of Soil testing and process of soil collection.	1	Off	25	0	25	0	0	0
Soil Science	F&FW	Importance of Azolla & BGA in rice cultivation.	1	Off	12	1	13	8	4	12
Soil Science	F&FW	Green manuring of dhaincha in Saline soil management	1	Off	1	0	1	11	13	24
Soil Science	F&FW	Application of PMS for acid soil management in pulses	1	Off	16	9	25	0	0	0
Soil Science	F&FW	Role of micro and secondary nutrients in cauliflower for better yield.	1	Off	18	7	25	0	0	0
Soil Science	F&FW	Training on nutrient Management in tomato	1	Off	19	0	19	6	0	0
Soil Science	F&FW	Training on Integrated nutrient Management in Bitter gourd	1	Off	0	5	5	0	20	20

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
Soil Science	F&FW	INM in solanaceous vegetable. .	1	Off	22	3	25	0	0	0
Soil Science	F&FW	Importance of Vermicompost in vegetable cultivation.	1	Off	25	0	25	0	0	0
Soil Science	RY	Methods of preparation of Vermicompost	2	On	11	0	11	4	0	4
Soil Science	RY	Methods of Prepararation of Vermiculture and Vermi Wash	2	On	14	0	14	1	0	1
Soil Science	IS	Methods of Soil Sampling for soil testing	1	On	8	2	10	0	0	0
Soil Science	IS	Methods of Soil testing by Mridaparikshyak	1	On	7	3	10	0	0	0

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	

Sponsored Training Programmes

Sl. No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants									Sponsoring Agency
					PF/RY/EF		Male			Female			Total			
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	

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

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	5	175	75	250	5	5	2	7	180	77	257
KisanMela		1	94	95	2	4	1	5			
KisanGhosthi											
Exhibition											
Film Show											
Method Demonstrations											
Farmers Seminar	2	32	04	36	1	2	1	3			
Workshop	2	81	23	104	7	23	5	28			
Group meetings	12	228	34	262	12	24	7	31			
Lectures delivered as resource persons	62	230	140	370	15	84	32	116			
Advisory Services	36										
Scientific visit to farmers field	180	860	285	1145	16	156	23	179			
Farmers visit to KVK	5240	2910	2330	5240	18						
Diagnostic visits	245	1200	440	1640	14	112	23	135			
Exposure visits											
Ex-trainees Sammelan	4	71	23	94	6	24	7	31			
Soil health Camp	2	335	85	420	10	15	5	20			
Animal Health Camp	2	80	46	126	13	4	3	7			
Agri mobile clinic	-										
Soil test campaigns	2	32	14	46	4	2	-	2			
Farm Science Club Conveners meet	1	25	3	28	2	2	1	3			
Self Help Group Conveners meetings	8	-	126	126	4	4	8	12			
Mahila Mandals Conveners meetings	2	-	24	24	2	-	2	2			
Celebration of important days (specify)											
Sankalp Se Siddhi											

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Swatchta Hi Sewa											
Mahila Kisan Divas	1	0	51	51	2	8	2	10	8	59	67
Agriculture education day	1	16	0	16	2						
Women in agriculture day		0	40	40	1						
International women's day	1	0	70	70	2						
World Water Day	1										
Total											

B. Other Extension activities

Nature of Extension Activity	No. of activities
Radio talks	10
TV talks	15
Popular articles	4
Extension Literature	2
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
Paddy	Kalachampa	160.11 (Unprocessed)				OSSC	
Paddy	Sarala	24.03 (Unprocessed)				OSSC	
Grand Total		184.14 (Unprocessed)					

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	Megha	900	1800	11	03	42	56
Cabbage	NS-43	900	1800	12	02	25	39
Broccoli		600	1200	10	04	14	28
Tomato	NS-Surakhya,Arka Samrat,NS-577	3300	6600	21	09	77	107
Brinjal	Swarna Shayamali	4155	8310	11	03	67	81
Chilli	Utakal Ava,	650	1300	07	05	39	51
Onion							
Inca	BM-2	200	400	02	03	11	16
Pointed Gourd	Swarna Aloukik	396	3960	13	04	55	72
Drumstick	PKM-1	20	400	03	01	13	17
Fruits							
Mango							
Guava							
Lime							
Papaya	Arka Prabhat ,Arka Surya,Pusa Nanha	954	19080	11	05	31	47
Banana							
Others							

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
Ornamental plants							
Medicinal and Aromatic							
Plantation							
Spices							
Turmeric							
Cinnamon		15		02	01	05	08
Tuber							
Elephant yams							
Fodder crop saplings							
Forest Species							
Others, pl.specify							
Total							

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																	
Azolla																	
Earth worms																	
Compost																	
Worms																	

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**			
Blue green algae																	
NADEP																	
Azatobactor																	
Azospirillum																	
PSB																	
Rhizobium																	
Azolla culture																	
Total																	
Bio-pestisides																	
Neem extract																	
Tobacco extract																	
Trichoder-maviride																	
Panchagavya																	
Trichoderma																	
Total																	
Worms																	
Eudriluseuniae																	
Total																	
Earth worm																	

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**			
Eiseniafoetida																	
Earth worm																	
Total																	
Bio-fungicides																	
Trichoderma viridae																	
Total																	
others																	
Vermiculture																	
Mushroom-spawn																	
Cuelure																	
Mineral mixture																	
Cow dung(dry)																	
Cow dung(wet)																	
Total																	
Grand 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)	Kuroiler	3455	152725	88	0	212	300
	Kadaknath	2110	110400	15	0	35	50
	Sourangi	100	5200	4	0	6	10
	Aseel	1000	35500	11	0	24	35
	RIR	700	22000	11	0	14	25
	White Leg horn	360	10340	3	0	9	12
Japanese Quail		200	3200	2	0	3	5
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				
Seminar/conference/ symposia papers				
Books				
Bulletins				
News letter				
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature				
Technical reports				
Electronic Publication (CD/DVD etc)				
TOTAL				

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Training programme	Climate Resilient Development in Agriculture	Dr Surya Narayan Mishra SS&H	7th to 11th Dec, 2020	MANAGE, Hyderabad
2.	Training programme	Climate Resilient Development in Agriculture	Dr Tapas Ranjan Sahoo SMS (Agronomy)	7th to 11th Dec, 2020	MANAGE, Hyderabad

3.7. Success stories/Case studies, if any (two or three pages write-up on 1-2 best case(s) with suitable action photographs)

Name of farmer	
Address	
Contact details (Phone, mobile, email Id)	
Landholding (in ha.)	
Name and description of the farm/ enterprise	
Economic impact	
Social impact	
Environmental impact	
Horizontal/ Vertical spread	

From small beginnings to earning lakhs

Name: Mrs. Amita Raut
Age: 35 years
Address: Village – Padini , GP – Balisahi patina, Block – Rajnagar, Dist – Kendrapara, Odisha
Educational qualification: Graduate
Land in acre – 5.0 acre
Mobile no – 7847010866
New Enterprise started: Mushroom spawn and mushroom cultivation
Year of start: 2107

Mrs. Amita Raut a young woman, member of a Self help group was trained at KVK, Kendrapara on mushroom cultivation. She started mushroom cultivation by understanding the scope and opportunities in the district. She prepared 15 beds daily with an average 12 to 15 kg mushroom production (round the year paddy straw/oyster mushroom cultivation) with net average income of Rs.1,500/- per day. During the period she has also made a remarkable change in the income of more than 192 women with mushroom cultivation involved in 18 Nos of SHG. The difficultly to source mushroom spawns in requisite quantities at desired intervals was faced by Mrs. Raut because of unavailability of mushroom spawns in the local area and they have to procure spawn either from KVK or from other sources outside the district. With this constraint she discussed with KVK Scientists and was trained on mushroom spawn production at KVK, Kendrapara and CTMRT, OUAT, Bhubaneswar. After completion of the training she was well aware of the machineries involved in mushroom spawn production and the total cost involved for setting up the unit. The financial crises for setting up the same was expressed by her during the RE Interface meeting where all her queries were answered and she was linked with DIC, Kendrapara for financial assistance. A sum of Rs. 9.9 lakh was sanctioned by DIC, Kendrapara for setting up mushroom spawn production unit.

KVK, Kendrapara facilitated her in procurement of the machineries involved in mushroom spawn production and also extended support for mushroom spawn production in her unit at Padini. Smt Amita Raut is now a successful mushroom grower and commercial producer of mushroom spawn in Kendrapara district.

Mrs.. Raut says "Mushroom farming and spawn production has not only empowered me and hundreds of other women, it has given boost to our family economy".

Output and Outcome:

- **Mrs. Raut changed income of 18 nos SHGs from zero to in an average annual net income of Rs.46,08,000/-.**
- With due course Smt. Raut mastered in producing around 54,000 nos spawn bottles per year with an average net annual income of Rs.2,16,000/-

- Similarly Smt. Raut got annual net income from mushroom cultivation is Rs. 5,40,000/-
- As market price of oyster mushroom is low, Mrs. Raut now (2019) started value addition of oyster mushroom by preparing pickles of oyster mushroom with an net annual income of Rs.1,00,000/-
- **Total net annual income of Mrs.. Raut is Rs.8,56,000/- (Rupees seven lakh fifty six thousand only) and created self employment for 192 nos farm women and generated employment for 8 nos farm women directly by providing employment in her mushroom farming and mushroom spawn production unit.**
- Mrs. Raut now became a master trainer on mushroom cultivation and mushroom spawn production for the Kendrapara district and outside of the district.
- Mrs. raut is a master trainer of Rural Self Employment Training Institute (RSETI), Kendrapara sponsored by State Bank of India and different local NGOs, line departments.
- Mrs. Raut trained 192 members of 18 SHGs on mushroom cultivation directly in her local area and trained more than 350 farm women as resource person training organized by other departments and institutions.
- In this way Mrs Raut trained and befitted 542 fram women
- She is facilitating the production and marketing of mushroom produced by the SHGs through involvement of rural youths of local area.
- Mrs. Raut got award form different institutions for her success.

A successful tomato grower: Showing way forward with human touch during Covid-19 lockdown period

In the crucial situation of COVID-19, where the entire globe is suffering. Our country as well as the state Odisha is under lockdown to prevent the spread of the virus. As we know "Everything can wait, but not Agriculture"; this lockdown period cannot lock up the hands of the agrarian community which is the backbone of the country. Krishi Vigyan Kendra, Kendrapara is always in the frontline to help the farmers of the district who have been consistently putting efforts to fill our plate with food. During *Rabi*

2019-20, an assessment of triple disease resistant tomato varieties was conducted at the farmers' field in Chhatar village of Mahakalpara. Two tomato varieties i.e. Arka Rakshyak and Arka Samrat were evaluated. The average yield obtained from these two varieties were 428 q/ha and 445 q/ha, respectively. The farmers have expressed their happiness about achievement of higher yield with less insect and disease pest incidence. One among those successful farmers is Mr Nrusingha Charan Samal, S/O Kulamani Samal (Mob: 6371388430). The work done by Mr Samal is really praise worthy and a source of inspiration to other farmers of the district as well as the state. By support of KVK, Kendrapara , Mr Samal cultivated Tomato in an area of 0.4 ha which yielded him around 56 q of tomato within 15 days of harvesting period. Unfortunately, the harvesting period lied in between the 1st lockdown period i.e. 23rd March to 14th April 2020. He faced some problem in marketing. In this predicament, the whatsapp group created by KVK Kendrapara with the purpose to disseminate agro advisory and other information to the farming community during COVID 19 lockdown period helped him a lot. He expressed his problem regarding marketing of the produce in the group and the same was circulated among all the whatsapp group of farmers and traders created by KVK, Kendrapara. As a result, few buyers directly bought, around 25 q of tomato at a very remunerative price. Mr Samal is a gentleman, is not only happy with the timely marketing of his produce but also has done a commendable job as a true human being by distributing the surplus tomato of about 6 q among the needy families who were deprived of vegetables in his village and nearby villages during this lockdown period. By doing such type of noble work Mr Samal has created a respectful image and has set an example for the entire farming community. He may not be sound financially, but he is the richest from heart. As expressed by Mr Samal himself," I am happy to do this. How can I sleep peacefully with my family when my neighbour is struggling to take meal in this stressful lockdown situation".



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

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

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

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

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)

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

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

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

Sl. No	Name of the Equipment	Qty.
1.	Flame Photometer	1 No.
2.	BOD incubator	1 No.
3.	Automatic Nitrogen estimation system(Kelp) analyser	1 No.
4.	Distillation unit	1 No.
5.	Hot air oven	1 No.
6.	Electronic top pan balance	1 No.
7.	Conductivity meter	1 No.
8.	pH meter	1 No.
9.	EC meter	1 No.
10.	Spectrophotometer	1 No.
11.	Mrida Parikshyak	1 No.
12.	Mini Lab	1 No.

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
90	160	250	450	15	1250

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	Celebration of World Soil Day	65	8	1. Sj. Shashi Bhusan Behera, Hon'ble Member of Legislative Assembly, Kendrapara 2. Sj. Manas Ranjan Parida,President, Zilla Parishad, Kendrapara 3. Sj. Shiba Prasad Bal, Block Chairman, Kendrapara 4. Sj. Ashok Kumar Mahasuar, Chief District Agriculture Officer, Kendrapara 5. Sj. Kandha Jena, Asst. Director of Horticulture, Kendrapara 6. Sj. Prafulla Kumar Maharana, Soil Chemist, Kendrapara 7. Sj. Sarada Prasad Mishra, Agril. District Officer, Kendrapara 8. Sj. Ashok Kumar Samant, ASCO, Kendrapara	50	50

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

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

3.13. Technology week celebration

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

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

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
05.12.2020	1. Sj. Shashi Bhusan Behera, Hon'ble Member of Legislative Assembly, Kendrapara 2. Sj. Manas Ranjan Parida,President, Zilla Parishad, Kendrapara 3. Sj. Shiba Prasad Bal, Block Chairman, Kendrapara 4. Sj. Ashok Kumar Mahasuar, Chief District Agriculture Officer, Kendrapara 5. Sj. Kandha Jena, Asst. Director of Horticulture, Kendrapara 6. Sj. Prafulla Kumar Maharana, Soil Chemist, Kendrapara 7. Sj. Sarada Prasad Mishra, Agril. District Officer, Kendrapara 8. Sj. Ashok Kumar Samant, ASCO, Kendrapara	World Soil Day

IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)

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

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

4.4. Details of innovations recorded by the KVK

Thematic area	
Name of the Innovation	
Details of Innovator	
Back ground of innovation	
Technology details	
Practical utility of innovation	

4.5. Details of entrepreneurship development

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

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Deptt. of Agriculture, Deptt. of Horticulture, Veterinary Department, Fishery Department, Soil conservation department, Forest department, Rajnagar, NABARD and other lead banks of the Districts, Irrigation Departments, OLM, NGOs	Collaborative work, joint field visit, imparting training to inservice personnels, technology dissemination.

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

a) Programmes for infrastructure development

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

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

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

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area(Sq.mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1	Vermicompost	2010-11	24	Eisenia fetida - 2kg	Cow dung-400cft	28.75 vermicompost & 27 kg vermi	15600	57625	Vermicompost-Rs. 43125, Vermi-14500.
2	Azolla	2018-19	20			1.0q	300	1000	
3	BGA	2018-19	22			0.5q	100	500	
4	Medicinal unit	2016-17	310						
5	Net house	2009-10	112						

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	
6	Areca nut unit	2018-19	290						
	Mango orchard	2007-08	755						
	Fodder unit	2019-20	335						
	Sweet potato	2016-17	32						
	Dragon fruit	2019-20	22						
	Mushroom unit	2010-11	48						
	Poultry unit	2009-10	64						
	Duckery unit	2009-10	15						
	Pointed gourd	2019-20	8						
	Bi-pesticidal unit	2018-19	16						

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	
Rice	05.07.2020	01.01.2021	4	Kalachampa	Foundation	160.11 unprocessed			
Rice	06.07.2020	03.01.2021	1	Sarala	Foundation	24.03 unprocessed			

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

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.					

6.4 Performance of instructional farm (livestock and fisheries production)

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

6.5 Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January 2020	-	-	-
February 2020	-	-	
March 2020	-	-	
April 2020	-	-	
May 2020	-	-	
June 2020	-	-	
July 2020	-	-	
August 2020	-	-	
September 2020	-	-	
October 2020	-	-	
November 2020	-	-	
December 2020	-	-	
January 2021	-	-	
February 2021	-	-	
Total :	-	-	

(For whole of the year)

6.6 Utilization of staff quarters

Whether staff quarters has been completed:
No. of staff quarters:6
Date of completion:
Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI
Jan, 2020 to March, 2021	✓	✓	✓	✓	✓	✓

7 FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Suravi Account (KVK)	State Bank of India	Kendrapara	11387961417
Saving account (Revolving Fund)			30878179008
Suravi Account (ATMA)			32421924619

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	
i) Critical input		160920		160920	Nil
ii) TA/DA/POL etc. for monitoring		8000		8000	Nil
iii) Extension Activities (Field day)		7500		7500	Nil
iv)Publication of literature/ Misc		2380		2380	Nil
Total		178800		178800	Nil

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2013
	Kharif	Rabi	Kharif	Rabi	
i) Critical input		162000		162000	Nil
ii) TA/DA/POL etc. for monitoring		6000		6000	Nil
iii) Extension Activities (Field day)		7500		7500	Nil
iv)Publication of literature/Misc		4500		4500	Nil
Total		180000		180000	Nil

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			
2	Traveling allowances	1,00,000	1,00,000	1,00,000
3	Contingencies			
A		14,00,000	13,97,650	13,97,650
B	HRD	30,000	30,000	30,000
C	Library	10,000	10,000	10,000
D	Swachhta Expenditure	0	0	0
TOTAL (A)		**15,40,000**	**15,37,650**	**15,37,650**
B. Non-Recurring Contingencies				
1				
2				
3				
4				
TOTAL (B)				
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	2,60,269	6,64,419	4,27,088	2,52,400
2016-17	2,52,400	9,55,138	5,07,886	3,15,632
2017-18	19,145	529917	334301	2,14,761
2018-19	2,14,761	6,09,365	6,17,898	2,33,228
2019-20	2,33,228	8,67,129	9,80,316	1,20,041
2020-21				

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

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	With both

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)

8.2. Prevalent diseases in Livestock/Fishery

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

9.1. Nehru Yuva Kendra (NYK) Training

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

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

Type of message	No. of messages	No. of farmers covered
Crop	12	62436
Livestock	2	62436
Fishery	0	62436
Weather	4	62436
Marketing	0	62436
Awareness	15	62436
Training information	0	62436
Other	0	62436
Total	33	62436

9.3. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	-
2.	No. of farmers registered in the portal	-
3.	Mobile Apps developed by KVK	*Nil*
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

b. Details of Swachhta activities with expenditure

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

9.5. Observation of National Science day

Date of Observation	Activities undertaken

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

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		
24.11.2020	-	-	-	-	-	-	-	20	-			

9.9. Details of Swachhta Hi Sewa programme organized

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

9.10. Details of Mahila Kisan Divas programme organized

Sl.No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Celebration of Mahila Kisan Divas	7	56		

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	Mrs. Amita Rout	At: Padini , Block Rajnagar, Dist: Kendrapara	Leading in enterprise
2	Mrs. Ipsita Swain	At : Adhanga Malikeswarpur Block: Derabis, Dist: Kendrapara	Leading in enterprise
3	Mrs. Sailabala Samal	At: Bhratpur Block: Kendrapara Dist: Kendrapara	Leading in enterprise
4	Mrs. Gitanjali Nayak	At: Napanga, Block: Patamundai Dist: Kendrapara	Leading in enterprise

9.12. Revenue generation

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

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

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)

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

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

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

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

(ii) Table:

Sl.No.	***Description***	***Unit***	***Achievements***
1	Number of Technologies Identified after Assessment	Number	
2	Upgraded Skills and Knowledge of farmers	Number	
3	Oriented extension personnel in frontier areas of agricultural technology	Number	

Sl.No.	***Description***	***Unit***	***Achievements***
4	Increased availability of quality seed	Quintal	
5	Increased availability of quality Planting material	Number	
6	Increased availability of live-stock strains and fingerlings	Number	
7	Testing of Soil & water samples for balance fertilizer use	Number	

d. Location and Beneficiary Details during 2020-21

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

12. Schedule caste Output & Outcome achievements

Sl.No.	Indicator/Activities	Unit of Indicator	Achievements
1	Farmers, farm women trained by KVKs	Number	69(1725)
2	Extension personnel trained by KVKs	Number	9(90)
3	On-farm trials conducted by KVKs	Number	10 (70)
4	Frontline demonstrations conducted by KVKs	Number	20 (200)
5	Quantity of seeds produced	Quintal	
6	Planting materials Produced	Number	
7	Livestock strains and fingerlings produced	Number	Nil
8	Soil & water samples tested	Number	262(250 soil samples, 12 water samples)

13**.** Information pertaining to ARYA Project

2020-21							
Name of KVK	Year since ARYA is initiated in the KVK (specify year)	No. of Training programs	No. of rural youth trained		No. of youth established units		No. of entrepreneurial units established
			M	**F**	**M**	**F**	

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	
Green manuring	30	30	18 ha	5	4	0	0	12	9	17	13	30	
Renovation of farm pond	1	1	0.4	3	1	0	0	11	5	14	6	20	
Summer ploughing	10	10	10	4	0	0	0	6	0	10	0	10	

Crop Management

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted									Remarks
		SC		ST		Other		Total			
Cultivation of drought tolerant rice variety SahabhagiDhan	10	2	1	0	0	5	2	7	3	10	
Cultivation of flood tolerant rice variety Swarna sub1	10	3	0	0	0	3	4	6	4	10	
Post flood cultivation of blackgram	10	2	1	0	0	5	2	7	3	10	
Rice –blackgrampaira cropping system	10	1	0	0	0	8	1	9	1	10	
Maize- cowpea Intercropping system	1	01	0	0	0	04	0	05	0	05	

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	
Rearing of poultry breed Kadaknath	300	15		2	0	0	0	4	9	6	9	15	

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	
Fodder bank	01	0.4	05	03	0	0	08	09	13	12	25	
Grain bank	01	01 unit	3	0	0	0	7	05	10	5	15	
CHC	01	01	7	2	0	0	17	06	24	8	32	

Capacity building

Thematic area	No of Courses	No of beneficiaries								
		SC	ST		Other			Total		
		M	F	M	F	M	F	M	F	T
Cultivation practices of swarna sub 1 and SahabhagiDhan	01	03	04	0	0	08	10	11	14	25
Organic ammendements as green manure to improve soil fertility	01	04	0	0	0	12	09	16	09	25
Crop Diverisfication to combat climate change effect	01	02	04	0	0	10	09	12	13	25
INM in Rice- blackgramPaira cropping system	01	05	07	0	0	09	04	14	11	25
Insitu Moisture conservation through organic mulching	01	03	04	0	0	12	06	15	10	25

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
01	Pisciculture Banana Cultivation Vegetable cultivation Vermicopmost Poultry rearing	0.8	Fingerling production Vegetables like brinjal, tomato, cauliflower Kadaknath poultry	53000	78000	8	18

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					

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							
2019-20							

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											
KKA-II											

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 (q)	*Planting material (lakh)*	*Input (kg)*	*Other (kg/ No.)*	*SC*		*ST*		*Others*		*Total*			
						M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	*T*	
KKA-I															
KKA-II															

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*
		No. of animals vaccinated	*No. of animals dewormed*	*Feed/ nutrient supplements provided (kg)*	*Any other (Distribution of animals/ birds/ fingerlings) [No.]*	*SC*		*ST*		*Others*		*Total*			
						M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	*T*	
KKA-I															
KKA-II															

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	

25. Nutri-garden

Sl.no.	**Name of KVK**	**Established in KVK Campus**	**No. of nutria-garden established in the village**	**Major vegetables production**

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)

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	
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	