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 : Larkipali,(RE Farm) PO. Rajendra College Dist. Bolangir – 767002, ODISHA	06652250165	06652250165	kvkbolangir.ouat@gmail.com bolangirkvk@yahoo.com

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

Address	Telephone		E mail
	Office	FAX	
OUAT, Bhubaneswar	0674-2397424	0674-2397919	ouatacademic62@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Ashis Kumar Das	NA	9437277301	kvkbolangir.ouat@gmail.com

1.4. Year of sanction of KVK: **2009**

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	**Vacant**						
2	Subject Matter Specialist	Ashis Kumar Das (& I/C SSH)	Scientist(Plant Protection)	Entomology	27730+6000	16.01.2006	Permanent	Others
3	Subject Matter Specialist	Dr. Tapan Kumar Palai	Scientist (Animal Sc.)	Animal Sc.	19050+6000	17.06.2015	Temporary	Others
4	Subject Matter Specialist	Sarthak Pattanayak	SMS (Agronomy)	Agronomy	16880+5400	13.06.2018	Temporary	Others
5	Subject Matter Specialist	Rahul Dev Behera	SMS (Soil Sc.)	Soil Science	16880+5400	28.11.2018	Temporary	SC
6	Subject Matter Specialist	**Vacant**						
7	Subject Matter Specialist	**Vacant**						
8	Programme Assistant	**Vacant**						
9	Computer Programmer	Sri Rabi Narayan Satapathy	Programme Assistant(Computer)	Information technology	18350+4200	22.08.2005	Temporary	Others
10	Farm Manager	Sagarika Muna	Farm Manager	Horticulture	11940+4200	01.01.16	Temporary	ST
11	Accountant / Superintendent	**Vacant**						
12	Stenographer	**Vacant**						
13.	Driver	Upendra Mishra	Driver cum Mechanic	-	7970+1900	06.05.11	Temporary	Others
14.	Driver	Biswabasi Sarangi	Driver cum Mechanic	-	6860+1900	14.02.14	Temporary	Others
15.	Supporting staff	Prafulla Palei	Peon-cum-Watchman	-	7290+1700	28.06.14	Temporary	OBC
16.	Supporting staff	Krushna Ch Rout	Peon-cum-Watchman	-	6000+1700	01.12.14	Temporary	OBC

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	0.5
2.	Under Demonstration Units	1.0
3.	Under Crops	9.0
4.	Orchard/Agro-forestry	1.0
5.	Others (IFS / Crop cafeteria etc.	2.5
6.	Unused / Wasteland	2.0
	Total	16.0

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					Yes	550	Under use	ICAR
2.	Farmers Hostel	Not started							
3.	Staff Quarters (6)	Not started							
4.	Piggery unit	Not started							
5	Fencing	-		Incomplete / 2000 running ft. required					RKVY
6	Rain Water harvesting structure	Not started							
7	Threshing floor	Not started							
8	Farm godown					Yes		Under Use	RKVY
9.	Dairy unit	Not started							
10.	Poultry unit	-				Yes	9×5mt	Under Use	RKVY
11.	Goatery unit	Not started							
12.	Mushroom Lab	-						Under Use	RKVY
13.	Mushroom production unit	Not started							
14.	Shade house	Not started				yes	18X5.5m	Under Use	RKVY
15.	Soil test Lab	Not started							
16	Seed Processing Unit	Not started							

* 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	2010	5.0 lakh	177324	Running
Massey Tractor+trailer	2010	6.0 lakh	0998	Running
Motor Cycle	2012	0.53lakh	9123	Running

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment (HomeScience)				
Digital refractrometer (B.P.Lab make)-1 no	2017-18	14,950	Functioning	ICAR
Drying Cabinet, Model BPL-25 (B.P.Lab make)—1 no	2017-18	19,898	Functioning	ICAR
Crown cap sealing machine (seapack make)-1 no,	2017-18	5900	Functioning	ICAR
Vaccum cap sealing machine (seapack make)-1 no	2017-18	1980	Functioning	ICAR
StainlessSteelKnife,strainer,decanter,measuring cup set,glass jar -1 no each	2017-18	2322	Functioning	ICAR
Food processer Fx10 (Bajaj make)-1 no	2017-18	4950	Functioning	ICAR
b. Farm machinery				
Rotavator	2012-13	86,100	Running	ICAR
Seed cum fertilizer drill	2012-13	52,100	Running	ICAR
Power thresher cum fan type winner(2nos)	2012-13	39,600	Running	ICAR
Power sprayer(2nos)	2012-13	12,688	Running	ICAR
Nine tyne cultivator	2012-13	12,400	Running	ICAR
Rotavitor	2012-13	86,100	Running	ICAR
c.AV Aids				
P A System	2011-12	43,445	Functioning	ICAR
DVD Player	2011-12	3790	Functioning	ICAR
Digital camera	2011-12	22,500	Functioning	ICAR
LCD	2011-12	34,900	Functioning	ICAR
Handy cam	2011-12	39,500	Functioning	ICAR
LCD Projector	2011-12	40,163	Functioning	ICAR
Sony Digital camera	2011-12	16,470	Functioning	ICAR
Nikon Digital camera	2011-12	4798	Functioning	ICAR
Picco projector	2017-18	22,000	Functioning	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Rotavator	2012-2013	86,100	Running	ICAR
Seed cum fertilizer drill	2012-2013	52,100	Running	ICAR
Power thresher cum fan type winner(2nos)	2012-2013	39,600	Running	ICAR
Power sprayer(2nos)	2012-2013	12,688	Running	ICAR
Nine tyne cultivator	2012-2013	12,400	Running	ICAR

1.8. Details of SAC meeting* conducted in the year (not in 2020, but in 2021)

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted state reason
1	24.3.21	40	Horizontal spread of nutritional garden in the district	Nil till now as it ended just a week before .	
			Stress on management of sucking pests in Bt cotton		
			Stress tolerant short duration paddy may be taken in rainfed situation		
			Suitable variety of greengram may be tried in kharif, December and Summer months		
			Suitable interventions in summer tomato, kharif onion , kharif potato may be tried .		
			Value addition in agricultural produce for income generating activities for farm women		
			Technological interventions for migrants in migration affected blocks		

** 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 (2020-21)

Sl.	Item	Information
1	Major Farming system/enterprise	Agriculture+ Horticulture+ Animal Husbandry
2	Agro-climatic Zone	Western Central table land zone
3	Agro ecological situation	Plain land Irrigated; Plain land rainfed; Undulating Sub mountainous track ; Undulating plain drought prone
4	Soil type	Mixed Red &black, Red, laterite &Mixed red and yellow
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Paddy- 28 q/ha , Arhar-12q/ha, Greengram-7q/ha, Groundnut-18q/ha, Sunflower-11q/ha
6	Mean yearly temperature, rainfall, humidity of the district	27.1^0C, 855mm, 56 %
7	Production of major livestock products like milk, egg, meat etc.	Milk-92 TMT/ annum) ; Egg-375 Million/annum) ; Meat-11.4 TMT/annum)

Note: Please give recent data only

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (cropwise)	Identified Thrust Areas
1	Bolangir	Bolangir	Bargaon	Paddy, Greengram, Arhar,Cucumber, Mango, Banana, Vegetable, Poultry, Goat,	Lack of storage facility for fruits and vegetables. Severe crop weed competition in Kharif upland crops	Crop diversification, Quality seeds and seedling, promotion of nutritional garden
2.	Bolangir	Khaprakhol	Darlipali	Paddy, Cotton Greengram, Arhar,Cucumber, Vegetable, Poultry, Goat,	Inadequate knowledge about post harvest technology Lack of storage facility Severe crop weed competition in Kharif upland crops	Crop diversification, , Quality seeds and seedling, Farm mechanization, promotion of nutritional garden
3.	Bolangir	Patnagarh	Dhod-mahul	Paddy, Cotton , Greengram, Arhar, Tomato, Cucumber, Mango,Vege-table, Poultry, Goat,	Non availability of waste land management techniques. Severe crop weed competition in Kharif upland crops	Crop diversification, Farm mechanization, promotion of nutritional garden
4.	Bolangir	Puintala	Banabahal	Paddy,Greengram ,Arhar,Cucumber, Vegetable,Poultry ,Goat,	Severe soil erosion in sloppy uplands. Severe crop weed competition in Kharif upland crops .	Crop diversification, Integrated Nutrient Management Practices,
5.	Bolangir	Loisingha	Brahmni-dungri	Paddy,Greengram ,Cucumber, Brinjal, Crucifer vegetables Tomato,Mango ,Poultry, Goat	Non availability of waste land management techniques. Severe crop weed competition in Kharif upland crops	Crop diversification, Farm mechanization, promotion of nutritional garden

2.b. Details of operational area / villages (2020-21)

Sl.	Name of village	Block	Distance from KVK	Year of initiation
1	Baragaon	Bolangir	15	2018
2	Dhodmahul	Patnagarh	52	2020
3	Banabahal	Puintala	23	2017
4	Darlipali	Khaprakhol	75	2020
5	Brahmnidungri	Loisingha	25	2020

2. c. Details of village adoption programme:
Name of the villages adopted by PC and SMS (2020-21) for its development and action plan

Name of village	Block	Activities taken up for development
Bargaon	Bolangir	FLD on Bypass fat feeding to cows , FLD on feeding Management in Goats, FLD on deworming in goats, FLD on brooding mgmt in chicks, OFT on Improved poultry breeds, Trainings on various aspects, Group meetings and diagnostic field visits; FLD on management of sheath blight in Paddy, FLD on management of downy mildew in cucumber; Jal sakti abhiyaan for judicious use of water
Brahmani-dunguri	Loisingha	FLD on feeding Management in Goats, FLD on deworming in goats, Trainings on various aspects, Group meetings and diagnostic field visits; Jal sakti abhiyaan for judicious use of water
Darlipali	Khaprakhol	OFT on feeding of pretreated straw , FLD on feeding Management in Goats, FLD on deworming in goats, FLD on Bypass fat feeding to cows, Trainings on various aspects, Group meetings and diagnostic field visits; Jal sakti abhiyaan for judicious use of water
Banabahal	Puintala	FLD on brooding mgmt in chicks, OFT on Improved poultry breeds, FLD on feeding Management in Goats, Trainings on various aspects, Group meetings and diagnostic field visits; OFT on assessment of BPH tolerant Paddy; FLD on fruit borer management in okra; FLD on management of downy mildew in cucumber; Jal sakti abhiyaan for judicious use of water
Dhodmohul	Patnagarh	FLD on pest mgt in Cotton , FLD on stress tolerant var. of Arhar, Nutritional garden

Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Assessment of suitable crop for intercropping in maize
2.	Problem diagnosed	Low yield from sole crop due to wider spacing and thin crop stand
3.	Details of technologies selected for assessment/refinement	Top 1: Maize + cowpea in ratio 1:1 + application of STBFR (120-75-75 kg/ha)+ Biofertiliser Consortia @ 12kg/ha + Zn @ 5kg/ha Top 2: Maize + cowpea in ratio 2:2 + application of STBFR (120-75-75 kg/ha)+ Biofertiliser Consortia @ 12kg/ha + Zn @ 5kg/ha
4.	Source of Technology	OUAT
5.	Production system and thematic area	Integrated crop management
6.	Performance of the Technology with performance indicators	Plant height, Cob length, rows/cob. Grains/cobb, cobb yield, gross return, net return, system yield.
7.	Final recommendation for micro level situation	Maize cowpea (1:1) intercropping
8.	Constraints identified and feedback for research	Vacant interspace of maize leading to loss of space, time and energy, need to utilize the interspace till the maize crop has not covered the space and proper space management for better yield and system yield
9.	Process of farmers participation and their reaction	Farmers are satisfied with the technology of Maize cowpea (1:1) intercropping as getting extra cowpea with same cost of cultivation of maize and with the same time frame work.

Thematic area:

Problem definition: Vacant interspace in maize leading to loss of space, time and energy, need to utilize the interspace till the maize crop has not covered the space and proper space management for better yield and system yield

Technology assessed:

Top 1: Maize + cowpea in ratio 1:1 + application of STBFR (120-75-75 kg/ha)+ Biofertiliser Consortia @ 12kg/ha + Zn @ 5kg/ha
Top 2: Maize + cowpea in ratio 2:2 + application of STBFR (120-75-75 kg/ha)+ Biofertiliser Consortia @ 12kg/ha + Zn @ 5kg/ha

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Cob length	No. of rows/cob	Seeds/cob Weight per 100 seeds (g)						
Maize + Cowpea (1:1)	10	12.5	25.8	364 31.4	10	140q green cobb 35q cowpea	45900	175000	129100	3.81
Maize + Cowpea (2:2)	10	12.4	24.3	320 31.2	15	128q green cobb +30q cowpea	45900	158000	112100	3.44
FP Sole Maize	10	13.3	26.5	376 31.9	14	145 q green cobb	40100	145000	104900	3.62

OFT-2

1.	Title of On farm Trial	Assessment of suitable high yielding variety of Pigeon Pea
2.	Problem diagnosed	Low yield of local and degenerated variety of pigeon pea
3.	Details of technologies selected for assessment/refinement	Top1: Growing of local variety PRG 176 Top 2: Growing of variety LRG 52
4.	Source of Technology	OUAT
5.	Production system and thematic area	Varietal substitution
6.	Performance of the Technology with performance indicators	Plant height, Primary branch/plant, Pod length, seeds/pod, seed yield, cost of cultivation, net return and B:C
7.	Final recommendation for micro level situation	Variety PGR 176
8.	Constraints identified and feedback for research	Assured supply of seed and promotion through seed village with assurance of buy back
9.	Process of farmers participation and their reaction	Farmers are satisfied with the technology of variety PRG 176 with higher yield attributing characters, yield and more return than local variety.

Thematic area: Varietal substitution

Problem definition: Low yield of local and degenerated variety of pigeon pea

Technology assessed: Top1: Growing of local variety PRG 176 Top 2: Growing of variety LRG 52

Table:

Technology option	No. of trials	Yield component					Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Plant height (cm)	Pods/Plant	Pod length	Seeds/pod	100 seed weight (g)						
FP: Local Variety	10	112.2	165	4.5	4.0	10.2	30	7.5	33000	45000	12000	1.4
Top-1: PRG 176	10	158.8	254	5.5	5.3	12.4	10	15.5	36000	93000	57000	2.6
Top 2: LRG 52	10	150.2	204	5.1	4.7	11.1	12	12.3	35000	73800	38800	2.1

OFT-3

1.	Title of On farm Trial	Assessment of different management system for control of whitefly in cotton
2.	Problem diagnosed	Low yield due to severe while fly infestation in cotton
3.	Details of technologies selected for assessment/refinement	TO1- Planting of maize as border crop around the field, intercropping of cowpea @ 8:2 ratio TO2- Application of Azadirachtin 0.15%@ 1.5 Lit./ ha twice @ 30 & 45 DAS TO3- Application of Flonicamid 50% WG @ 175 gm/ha twice at 10 days interval
4.	Source of Technology	ANGRAU, NATP , OUAT
5.	Production system and thematic area	Cotton – Fallow and IPM
6.	Performance of the Technology with performance indicators	whitefly /plant, extent of infestation in Cotton , Natural enemy in maize crop and BC Ratio
7.	Final recommendation for micro level situation	Planting of Maize as border crop, intercropping of cotton and cowpea @ 8:2 ratio
8.	Constraints identified and feedback for research	Difficulty in sowing the intercrop , Suitable high yielding & bushy variety of cowpea needed
9.	Process of farmers participation and their reaction	Participated in the process and perceived the less degree of pest infestation in cotton

Thematic area: Cotton – Fallow and IPM

Problem definition: Low yield due to while fly infestation in cotton

Technology assessed:

TO1- Planting of maize as border crop around the field, intercropping of cowpea @ 8:2 ratio
TO2- Application of Azadirachtin 0.15%@ 1.5 Lit./ ha twice @ 30 & 45 DAS
TO3- Application of Flonicamid 50% WG @ 175 gm/ha twice at 10 days interval

Table:

Technology option	No. of trials	Yield component		Yield (q/ha)	Cost of Cultivation (Rs. /ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of white flies /plant	Extent of damage (%)					
FP: Triazophos @ 2ml/l	8	13.41	34	9.86	23500	57188	33688	2.433
TO1: Maize as border crop intercropping of cowpea @ 8:2	8	6.92	20.5	14.95	27500	86710	59210	3.15
TO2: Azadirachtin 0.15%@ 1.5 Lit./ ha twice @ 30 & 45 DAS	8	7.57	26.25	11.62	24200	67396	43196	2.78
TO3: Flonicamid 50% WG @ 175 gm/ha twice at 10 days interval	8	7.28	24.25	12.46	24400	72268	47868	2.96

OFT-4

1.	Title of On farm Trial	Assessment of integrated management against Chilli thrips
2.	Problem diagnosed	Low yield of Chilli due to incidence of Chilli thrips
3.	Details of technologies selected for assessment/refinement	TO 1: Seed treatment with Imidachloprid 600FS @ 5ml /kg seed, erection of blue trap @ 20 per ha. and foliar spraying of Spiromesifen 22.9%SC @ 1 ml/ l of water twice at 30 and 45 DAT TO2 : Seed treatment with Imidachloprid 600FS @ 5ml/kg seed , erection of blue trap @ 20 per ha. and Foliar spraying of Thiacloprid 21.7 % SC @ 0.6 ml/ l of water twice at 30 and 45 DAT
4.	Source of Technology	OUAT
5.	Production system and thematic area	Vegetable-vegetable and IPM
6.	Performance of the Technology with performance indicators	Extent of infestation with leaf curl virus, Extent of disfigured fruits , Yield , CB ratio, Ease of adopting the components of IPM
7.	Final recommendation for micro level situation	Seed treatment with Imidachloprid, blue trap @ 20 per ha. and spraying of Thiacloprid@ 0.6 ml/ l
8.	Constraints identified and feedback for research	NIL
9.	Process of farmers participation and their reaction	Happy with the technology, Commercial blue trap is costly and catches wide range of pests

Thematic area: Vegetable-vegetable and IPM

Problem definition: Low yield of Chilli due to incidence of Chilli thrips

Technology assessed:

TO 1: Seed treatment with Imidachloprid 600FS @ 5ml /kg seed, erection of blue trap @ 20 per ha. and foliar spraying of Spiromesifen 22.9%SC @ 1 ml/ l of water twice at 30 and 45 DAT

TO2 : Seed treatment with Imidachloprid 600FS @ 5ml/kg seed , erection of blue trap @ 20 per ha. and Foliar spraying of Thiacloprid 21.7 % SC @ 0.6 ml/ l of water twice at 30 and 45 DAT

Table:

Technology option	No. of trials	Yield component		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of plant affected with leaf curl	No. of disfigured fruit/ 100 fruit					
FP:	10	40	15.5	100.4	85000	351400	266400	4.13
TO 1: Seed treatment with Imidachloprid blue trap @ 20 per ha. and foliar spraying of Spiromesifen	10	24	13.7	121.1	95000	423850	328850	4.46
TO2 : Seed treatment with Imidachloprid blue trap @ 20 per ha. and Foliar spraying of Thiacloprid	10	21.6	13.5	126.6	96500	443100	346600	4.59

OFT-5

1.	Title of On farm Trial	Assessment of Sulphur and Boron application on development of pod and oil content in kharif groundnut
2.	Problem diagnosed	Low yield due to poor filing & development in kharif groundnut
3.	Details of technologies selected for assessment/refinement	FP : Application of 20:40:20,N:P:K Fertilizer., No soil testing No micronutrient application. TO-1 : Soil test based fert. application + lime 5q/ha with application of Sulphur @ 30kg /ha. TO-2 : Soil test based fert. Application + lime 5q/ha with application of Sulphur @ 30kg/ha along with Borax 10 kg/ha.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on Dryland Agriculture, Phulbani, 2015
5.	Production system and thematic area	Groundnut-Greengram, Nutrient managemrnt
6.	Performance of the Technology with performance indicators	No. of pods per plant, yield (q/ha), cost of cultivation, gross return, net return, B:C ratio
7.	Final recommendation for micro level situation	Soil test based fert. Application + lime 5q/ha with application of Sulphur @ 30kg/ha along with Borax 10 kg/ha
8.	Constraints identified and feedback for research	Application of fertilizers untimely which reduce the development of pod
9.	Process of farmers participation and their reaction	Farmers were satisfied with their yield and economics

Thematic area:

Problem definition: Low yield due to poor filing & development in kharif groundnut

Technology assessed:

TO-1 : Soil test based fert. application + lime 5q/ha with application of Sulphur @ 30kg /ha.
TO-2 : Soil test based fert. Application + lime 5q/ha with application of Sulphur @ 30kg/ha along with Borax 10 kg/ha.

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					
FP : Application of 20:40:20,N:P:K Fertilizer., No soil testing No micronutrient application	7	18	17.2	34500	87548	53048	2.54
TO-1: Soil test based fert. application + lime 5q/ha with application of Sulphur @ 30kg /ha	7	21	20.1	38750	102309	63559	2.64
TO-2: Soil test based fert. Application + lime 5q/ha with Sulphur @ 30kg/ha along with Borax 10 kg/ha	7	22	21.8	39800	110962	71162	2.79

OFT-6

1.	Title of On farm Trial	Assessment of Zinc deficiency in lowland rice
2.	Problem diagnosed	Low yield of rice due to poor grain filling in soil deficient in zinc
3.	Details of technologies selected for assessment/refinement	FP: Application of no zinc in lowland rice, grown in deficit soil TO-1: Soil Test Based Recommendation (STBR) NPK+ $ZnSo_4$ @ 25 kg/ha TO-2 : STBR NPK + 5t FYM ha^{-1} + $ZnSo_4$ @ 12.5 kg/ha
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on LTFE, OUAT, Bhubaneswar, Odisha, 2017 and AICRP on Micronutrient and Pollutant, OUAT, Bhubaneswar, Odisha, 2016
5.	Production system and thematic area	Rice-Rice, Nutrient managemrnt
6.	Performance of the Technology with performance indicators	Plant height, panicle/m^2 (nos), yield (q/ha), cost of cultivation, gross return, net return, B:C ratio
7.	Final recommendation for micro level situation	STBR NPK + 5t FYM ha^{-1} + Zn @ 2.5 kg ha^{-1}

8.	Constraints identified and feedback for research	Inadequate application of micronutrient which reduce the plant height with yield
9.	Process of farmers participation and their reaction	Farmers were satisfied with their yield and economics

Thematic area:

Problem definition: Low yield of rice due to poor grain filling in soil deficient in zinc

Technology assessed:

TO-1 : Soil Test Based Recommendation (STBR) NPK+ Zn @ 5 kg/ha.
TO-2 : STBR NPK + 5t FYM ha^{-1} + Zn @ 2.5 kg ha^{-1}.

Table:

Technology option	**No. of trials**	**Yield component**			**Disease/ insect pest incidence (%)**	**Yield (q/ha)**	**Cost of cultivation Rs./ha**	**Gross return Rs/ha**	**Net return Rs./ha**	**BC ratio**
		Plant height (cm)	**No. of panicles/ sq. mt.**	**Test wt. (100 grain wt.)**						
FP : Application of no zinc in lowland rice, grown in deficit soil	7	86	281			43.6	43100	79134	36034	1.83
TO-1: Soil Test Based Recommendation (STBR) NPK+ $ZnSo_4$ @ 25 kg/ha	7	93	309			45.8	45150	83127	37977	1.84
TO-2 : STBR NPK + 5t FYM ha^{-1} + $ZnSo_4$ @ 12.5 kg/ha	7	97	313			46.1	44970	83672	38702	1.86

OFT-7

1.	Title of On farm Trial	Refinement of Feeding of pre-treated straws for milk production in Desi cows
2.	Problem diagnosed	Low milk production in Desi cows due to heavy raw straw feeding
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-1: Soaking chaffed straw in water for 12 hrs and draining the red water and washing with fresh water and feeding to the cow (6-8kg/day) TO-2: Soaking chaffed straw in alkaline water (1%) for 30 min and draining the red water and washing with fresh water and feeding to the cow (6-8kg/day). TO-3: 4kg urea in 10 l of water/100kg straw (2-3 cm). Stored in airtight condition for 21 days. 30 min before feeding the feed need to be exposed to air to remove the smell
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Technical Bulletin NIANP, 2012 e-Course on Animal Nutrition and Feed Tech., IASRI Agricultural Technology Compendium, ICAR, 2004
5.	Production system and thematic area	Homestead and Livestock Production Management
6.	Performance of the Technology with performance indicators	Increase in Milk yield and Health status
7.	Final recommendation for micro level situation	Feeding of soaked chaffed straw resulted in increase milk yield. Urea treated straw gave best result but only soaked straw sowed best acceptability
8.	Constraints identified and feedback for research	Only 2 farmers under the assessment managed to perform TO3 with perfection
9.	Process of farmers participation and their reaction	Participated farmers were happy with the result of feeding of soaked chaffed straw but most of the farmers did not feel comfortable with Urea treatment in straw

Thematic area: **Livestock Production Management**

Problem definition: Low Milk yield in potentially good desi cows due to heavy raw straw feeding.

Technology assessed:

TO-1: Soaking chaffed straw in water for 12 hrs , draining the red water , washing with fresh water and feeding to the cow (6-8kg/day)

TO-2: Soaking chaffed straw in alkaline water (1%) for 30 min , draining water and washing with fresh water and feeding to the cow (6-8kg/day).

TO-3: 4kg urea in 10 l of water/100kg straw (2-3 cm). Stored in airtight condition for 21 days. 30 min before feeding the feed need to be exposed to air to remove the smell.

Technology option	No. of trials	Yield component Avg Milk yield	Health status (% fall sick)	Cost of production	Gross return	Net return	BC ratio
FP: Raw straw feeding	7	0.54 l/day/cow	All healthy	Rs. 7/cow/day (Labour)	Rs 16/cow/day	Rs 9/cow/day	2.28
TO-1 : Soaking chaffed straw in water for 12 hrs and draining the red water and washing with fresh water and feeding to the cow (6-8kg/day)	7	0.79 l/cow/day	All healthy	Rs.10/cow/day (Labour)	Rs 23.7/cow/day	Rs 13.7/cow/day	2.37
TO-2 : Soaking chaffed straw in alkaline water (1%) for 30 min and draining the red water and washing with fresh water and feeding to the cow (6-8kg/day).	7	0.81 l/cow/day	All healthy	Rs. 10/cow/day (Labour)	Rs 24.3/cow/day	Rs 14.3/cow/day	2.43
TO-3: 4kg urea in 10 l of water/100kg straw (2-3 cm). Stored in airtight condition for 21 days. 30 min before feeding the feed need to be exposed to air to remove the smell.	7	0.915 l/cow/day	All healthy	Rs. 11/cow/day (Labour +Urea)	Rs 27.45/cow/day	Rs 16.45/cow/day	2.49

OFT 8

1.	Title of On farm Trial	Comparative Assessment of improved poultry breeds for production in Backyard system
2.	Problem diagnosed	Poor production and income from local nondescript desi type chicken
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-1 : Rearing of Vanaraja with proper brooding and backyard feeding management TO-2: Rearing of Kadaknath with proper brooding and backyard feeding management TO-3: Rearing of Aseel with proper brooding and backyard feeding management
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**Source**: Annual Report 2016-17, Dir. of Poultry, ICAR Annual Report 2017-18, ICAR-CARI
5.	Production system and thematic area	Homestead cum Backyard and Livestock Production Management

6.	Performance of the Technology with performance indicators	Chick Mortality, Body weight at 1m, 2m, 4m and age of laying, annual egg production, Cost of Intervention, Additional income over additional investment, BC Ratio
7.	Final recommendation for micro level situation	Growth rate of both Kadaknath and Aseel is better than Desi birds. Kadaknath growth rate is slightly better than Aseel
8.	Constraints identified and feedback for research	Readily availability of Pure Kadaknath and Aseel chick may be an issue
9.	Process of farmers participation and their reaction	Farmers were highly satisfied and expecting even better return in future

Thematic area: **Livestock Production Management**

Problem definition: Poor production and income from local nondescript desi type chicken

Technology assessed:

TO-1 : Rearing of Kadaknath chick with proper brooding management and feeding upto 15 days

TO-2: Rearing of Aseel chicks with proper brooding management and feeding upto 15 days

Table:

Technology option	No. of trials	Body weight gain in 2m	Chick mortality	% Change in weight gain	Cost of production	Gross return	Net return	BC ratio
FP : Rearing Desi birds with out proper brooding and feeding management	10							
TO-1: Rearing of Vanaraja with proper brooding and backyard feeding management	10	Results awaited Chicks and inputs under test were distributed during the month of March						
TO-2 : Rearing of Kadaknath chick with proper brooding management and feeding upto 15 days	10							
TO-2 : Rearing of Aseel chick with proper brooding management and feeding upto 15 days	10							

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.	Paddy	Varietal Substitution	Growing Rice Var. CR Dhan 310 of 120-125 days , Has protein content of at least 10% with moderately high Zinc. ; Tolerant to blast, brown spot, tungro virus, BLB, moderately resistant to sheath blight	2	2	0	0	10	0	0	0	10	0	10	
2.	Finger Millet	Varietal substitution	Growing of Finger Millet Var. Arjun The variety having duration 100-105 days, yield potential 6t/ha, Resistance to blast and stem borer.	2	2	0	0	10	0	0	0	10	0	10	
3.	Rice-green gram paira	Varietal substitution	Rice (Swarna) – green gram (IPM 2-14) + 2% spray of DAP at pre flowering and again after 15 days of first spray	2	2	0	0	10	0	0	0	10	0	10	
4	Paddy	IPM	Need based Spraying of the combination fungicide Azoxystrobin + difenconazole @ 1ml/ lit twice at 15 days interval starting from initiation of the infection to manage Sheath blight	4	4	2	0	2	0	6	0	10	0	10	
5	Pigeonpea	IPM	Maize as border crop, Pheromone trap @ 50/ha, need based spraying of Indoxacarb 15.8% SC @ 0.66 ml/ lit. to manage gram pod borer. Indoxacarb blocks neuronal sodium channels in caterpillars	2	2	3	0	2	0	5	0	10	0	10	

6	Pigeonpea	INM	75 % N , full P & K of soil test based dose of NPK (@ 25 : 50 : 50 kg/ha) with *Rhizobium* @ 20 g/ kg seed as seed inoculum+ below seed zone application of PSB @ 5 kg/ha and lime @ 0.2 LR for production enhancement	2	2	3	0	2	0	5	0	10	0	10	
7	Cauli-flower	INM	STBR(NPK)+ Sulphur@30kg / ha + one kg boron as basal application in Cauliflower for bigger curd size & higher yield	2	2	3	0	3	0	4	0	10	0	10	
8	Onion	Varietal substitution	Growing of kharif onion var. Line 883; Bulb are dark red ; round shape, shiny skin; Bulb dia. 4.5-5.5 cm; 90 days duration ; Av yield 300-325 Q/ha	1	1	5	0	2	0	3	0	10	0	10	
9	Tomato	Varietal substitution	Demonstration of triple resistant high yielding Tomato variety (Arka Rakshak); Spacing 100x60 cm, Seed rate 200gm/ha. , Yield 700 Q/ha, Round fruit , thick skin Arka Rakshak var. F1 hybrid has triple disease resistance to To LCV, BW and early blight.	1	1	3	0	4	0	3	0	10	0	10	
10	Brinjal	IPM	Erection of Pheromone trap @ 60/ ha, Removal and destruction of of affected twigs, Need based Spraying of Flubendiamide 480 SC @ 80 gm ai/ ha and Emamectin Benzoate 5% SG @ 200 gm / ha alternately at 15 days interval at initiation of symptom for management of shoot & fruit borer in brinjal	2	1	2	0	1	0	7	0	10	0	10	
11	Onion	INM	Application of Sulphur @ 45 kg/ha along with the soil test based fertiliser recommendation for increasing size of bulb	1	1	5	0	2	0	3	0	10	0	10	

12	Vermi-compost	Production of input at site	Composting cowdung and leafy materials in ration of 3: 10 in HDPE poly bag with release of earthworm, *E. foetida* @ 1kg / per bag ; covering with gunny bags and churning the material at 15 DAI till compost is ready	10	1	6	0	2	0	2	0	10	0	10	
13	Nutritional Garden	Nutritional Security	Trellis structure for raising cucurbits, Poly tunnel for raising seedlings, Cement ring tank for vermi -composting, Growing vegetables round the year covering leafy vegetables , Solanaceous vegetables, Roots and Tubers, cucurbits suiting to consumption pattern + Two Papaya Plants ,One Lemon, one drumstick and two Banana and floriculture in bunds	2	1	2	2	1	2	3	0	6	4	10	
14	Green-gram	INM	Soil test based NPK + FYM @ 5 t/ha and seed inoculation with Rhizobium @ 20g/kg seed + treatment with ammonium molybdate @ 10 g /25 kg of seed.	4	2	6	0	2	0	2	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 20-21	Rainfed lowland	Mixed red/black	375	26	125	Rice	3rd wk. July	1st week Dec.	700 mm	43
Finger Millet	Kharif	Rainfed	Laterite	333.3	17.8	110.2	Green gram	28.07.2020	10.11.20	450 mm	33
Rice-green gram paira	Rabi 2021	Rainfed	Mixed red/black	362	22.3	118.2		1st wk of Nov	1st wk feb	80mm	8
Kitchen garden	Kharif / Rabi 20/21	Irrigated upland	Mixed red/black	372.2	26.5	127.0	Rice	4th wk. July / Nov	1st week Oct./ Feb.	700 mm	43
Chilli	Rabi 2021	Irrigated up land	Sandy loam	295	20	128	Rice	4th week November	March	43 mm	14
Okra	Rabi 2021	Irrigated Up land	Sandy loam	291	39	135	Brinjal	3rd week January	9 March	54 mm	12
Cucumber	Rabi 2021	Irrigated Upland	Sandy Loam	296	40	140	Okra	3rd week January	16 March	78 mm	17
Arhar	Kharif 2020-21	Rainfed semi-upland	Sandy loam	280	14	129	Paddy	8th june	15th Dec.	765 mm	49
Greengram	Kharif 2020-21	Rainfed mediumland	Sandy loam	285	17	144	Brinjal	2nd wk Aug	4th Nov	556 mm	43

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: NIL

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
Pigeonpea	Soil fertility management	75 % N & full PK soil test based dose of NPK (@ 25 : 50 : 50 kg/ha) with *Rhizobium* @ 20 g/ha seed as seed inoculum+below seed zone application of PSB @ 5 kg/ha and lime @ 0.2 LR	10	2	14.9	12.8	16.4	33700	86420	52720	2.56	30500	74240	43740	2.40

Greengram	Soil fertility management	Soil test based NPK with FYM @ 5 t/ha and seed inoculation with Rhizobium @ 20g/kg seed and treatment with ammonium molybdate @ 10 g /25 kg of seed.	10	2	9.9	8.1	22.2	28570	69090	40520	2.42	25855	57810	31955	2.23
Greengram	Cropping system	Rice (Pooja) – green gram (IPM-02-03) + 2% spray of DAP at pre flowering and again after 15 days of first spray	10	2	6.6	2.3	65.2	8900	46530	37630	5.23	7500	16215	8715	2.16
Pigeopea	IPM	Maize as border crop, Pheromone trap @ 50/ha, need based spraying of Indoxacarb 15.8% SC @ 0.66 ml/ lit. to manage gram pod borer. Indoxacarb blocks neuronal sodium channels in caterpillars	10	2	13.25	10.25	29	28000	92890	64890	3.3	24000	71750	47750	2.9

* 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
Paddy	Varietal Substitution	Rice Var. CR Dhan 310 120-125 days , protein content 10% moderately high Zinc. ; Tolerant to blast, brown spot, tungro virus, BLB, moderately resistant to sheath blight	10	2	41.1	38.5	6.4	Panicle/m2 (nos.) - 298 Grains/panicle 98 Test weight (g)- 24.1 Protein content-10.2	Panicle/m2 (nos.) -273 Grains/panicle 87 Test weight (g)- 22.6 Protein content-6.4	44500	76775	32275	1.73	44500	71918	27418	1.62
Finger Millet	Varietal substitution	Growing of Finger Millet Var. Arjun The variety having duration 100-105 days, yield potential 6t/ha, Resistance to blast and stem borer.	10	2	18.5	10.7	42.2	Plant height (98.9cm) Ear heads/m2 (110) Fingers/ear head (7.3) Length of Finger (8.3cm)	Plant height (64.8cm) Ear heads/m2 (72) Fingers/ear head (4.9) Length of Finger (5.1cm)	14750	58275	43525	3.95	11800	33705	21905	2.86
Paddy	IPM	Need based Spraying of the combination fungicide Azoxystrobin + difenconazole @ 1ml/ lit twice at 15 days interval	10	4	49.4	42.59	15.98	No. of tillers affected- 13.6 No. of pannicles/hill 17.8	No. of tillers affected- 20.5 No. of pannicles/hill 14.3	38000	86450	48450	2.27	36000	74532	38532	2.07

Vegetable crops	Kitchen garden	Trellis structure with PP rope for raising cucurbits Protray for raising seedlings in small quantity Cement ring tank for vermi composting, Growing vegetables round the year covering leafy vegetables, sola , Solanaceous vegetables, Roots and Tubers, cucurbits suiting to consumption pattern + Two Papaya Plants ,One Lemon, one drumstick and two Banana and floriculture in bunds	10	1	Kharif-20.6q Rabi-22.4q/ house hold	Kharif 13.6q Rabi-14.8q/ house hold	Kharif 33.9 Rabi 34.5	22.4	14.8	9500	37200	27700	3.92	7500	24400	16900	3.25
Brinjal	IPM	Pheromone trap @ 60/ ha, Need based Spraying of Flubendiamide 480 SC @ 80 gm ai/ ha and Emamectin Benzoate 5% SG @ 200 gm / ha alternately at 15 days interval	10	2	327.1	292.58	11.79	Extent of infec 22% No. of fruit affected 12.2	Extent of infec 34% No. of fruit affected 15.2	94000	392520	298520	4.17	90000	351096	261096	3.90

Cauliflower	Nutrient management	STBR(NPK)+ Sulphur@30kg / ha +1 kg boron as basal application	10	1	317	288	10.1	Curd weight=902 (g)	Curd weight=765 (g)	82105	190200	108095	2.32	77860	172800	94940	2.22
Onion	Nutrient management	Application of Sulphur @45 kg/ha along with the soil test based fertilizer recommendation for increasing size of bulb	10	1	394	319	23.5	Bulb weight = 69.2	Bulb weight = 54.9	104328	255200	210872	3.02	96134	315200	159066	2.65
Vermicompost	IGA	Composting cowdung and leafy materials in ration of 3: 10 in HDPE poly bag with release of earthworm, E. foetida @ 1kg / per bag	10	10	30	22	36.3	-	-	10150	45000	34850	4.43	7600	33000	25400	4.34
Onion	Varietal substitution	Growing of kharif onion var. Line 883;	10	1	120	70	71.4	Size of bulb 90 g	Size of bulb 40	82500	300000	217500	3.63	60369	175000	114631	2.8
Tomato	Varietal substitution	Triple resistant high yielding Tomato variety (Arka Rakshak);	10	1	220	150	46.6	No. of fruit/plant 130	No. of fruit/plant 92	92660	303925	211265	3.28	62660	182836	120176	2.9

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	LPM	Demonstration of Bypass fat feeding for increase milk production and specific gravity	10	10	Avg. Milk yield/cow/ Day in l 9.37	Avg. Milk yield/cow/ Day in l 9.1	2.96	Sp.gravity LR Reading 30	Sp.gravity LR Reading 27	117/cow/ Day (Labour + Grain +Supplement)	356 (@ Rs. 36/l of milk due to high LR value	239/ cow/ Day	3.06	101/cow/ Day (Labour + Grain)	254 (@ Rs. 24/l of milk due to low LR value	153 / Cow/ Day	2.51
Cow																	
Buffalo																	
Poultry	LPM	Artificial Brodding Management in Chicks	10	200	Result awaited as chick and inputs are distributed during the month of March												
Rabbitry																	
Pigerry																	
Sheep and goat	LPM	Demonstration of feeding of Concentrate to increase the rate of body weight gain in goats	10	100	Weight gain in 2m (age 3m to 5 m)/goat 5.20 Kg	Weight gain in 2m (age 3m to 5 m)/goat 3.06 Kg	69.9	-	-	422/goat In 2 months (Labour + Conc. @ Rs. 2/day)	1820/ goat as per 2m wt gain (@ Rs.350/Kg meat)	1398	4.31	290/goat/ 2months (labour cost)	1071/ goat as per 2m wt gain (@ Rs.350/Kg meat)	781 /goat	3.69

Goat	LPM	Demonstration of Closantel as Oral anthelmintics to support Body weight gain in goats	12	60	Weight gain in 3m (age 6m to 9 m)/goat 5.78 Kg	Weight gain in 3m (age 6m to 9 m)/goat 4.21 Kg	37.29	-	-	460/goat/ 3monts (labour cost + Medicine cost)	2026/ goat as per 3m wt gain (@ Rs.350/Kg meat)	1566	4.4	430/goat/ 3months (labour cost)	1473/ goat as per 3m wt gain (@ Rs.350/Kg meat)	1043	3.42
Duckery																	
Others (pl.specify)																	
Total																	

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

** BCR= GROSS RETURN/GROSS COST

Fisheries

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

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

** BCR= GROSS RETURN/GROSS COST

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Enterprise development															
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)																
Total																

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

** BCR= GROSS RETURN/GROSS COST

Women empowerment

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

Farm implements and machinery

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

*** 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 NIL

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

Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (Pl. specify)										
Total										
Commercial crops										
Cotton										
Coconut										
Others (Pl. specify)										
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl. specify)										
Total										

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Rice	Promising and novel effective molecules are not available at all or not timely available in local market , Difficulty in application due to drudgery while working .
2	Pigeon pea	Maize as border crop fails to attract pests of Arhar due to harvesting of maize prior to fruiting of Pigeon pea
3	Okra	Pheromone trap for fruit borer is a promising technology. However the availability is too scarce. Suitable measures may be taken at University level for preparation of lures as a component of IPM .
4	Marigold	Bidhan Marigold cuttings are not easily available .
5	Onion	Suitable variety of Kharif Onion is required in the district
6	Rice	Seed of variety CR dhan 310 may be made available for kharif crop

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	23.10.20 22.1.21	2	50	Sheath blight management in rice, Management of pod borer in pigeon Pea
2.	Farmers Training	13.10.2020 14.12.2020	12	300	Training on Feeding management on goats with respect to concentrate feeding, Rearing technique in backyard poultry, Management of sheath rot in paddy, Management of gram pod borer, management of fruit and shoot borer in Brinjal , S and B application methods in Cauliflower, Techniques of raising of CR dhan , procedure of microbial culture application in pulses , INM in greengram, Kitchen gardening, vermicomposting techniques , INM in Rabi onion
3.	Media coverage	7.12.20 26.12.20 9.3.21 23.3.21 25.3.21	5	mass	Celebration of World soil day, Farmers fair, Hort. Fair, water day SAC meeting
4.	Training for extension functionaries	6.1.21	1	12	Vertebrate pest management

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	Green gram	Jhain Moong	2.2	4.1	4.2	10.2	Seed 30kg (Var. IPM 2-014) +500gm Rhizobium+2.5kg PSB per ha and Soil test based fertilizer application. PP chemical Flubendiamide 20%WG 200g/ha +Diafenthrun 50% WP 200g/ha + Tricocard 4pcs/ha + Pro bag 15 + Bavistin 1.2kg/ha	25	10	9.2	7.8	8.5	51.7		
2	Chick pea	Local	5.1	8.8	7.7	15	50kg seed (Var. NBeG-47) +800gm Rhizobium+10kg PSB per ha and Soil test based fertilizer application. PP chemical Fipronil 1 lit/ha +Lambada Cyhalothin2ml/lit+ Tricho card 50 pcs /ha + Pro bag 28/ha +2kg/ha	25	10	17.3	12.5	14.9	40.9	48.3	

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	Green gram Seed 30kg (Var. IPM 2-014) +500gm Rhizobium+2.5kg PSB per ha and Soil test based fertilizer application. PP chemical Flubendiamide 20%WG 200g/ha +Diafenthrun 50% WP 200g/ha + Tricocard 4pcs/ha + Pro bag 15 + Bavistin 1.2kg/ha	8400	15510	7110	1.84	9500	46530	37030	4.9
2	Chickpea 50kg seed (Var. NBeG-47) +800gm Rhizobium+10kg PSB per ha and Soil test based fertilizer application. PP chemical Fipronil 1 lit/ha +Lambada Cyhalothin2ml/lit+ Tricho card 50 pcs /ha + Pro bag 28/ha +2kg/ha	19500	30600	11100	1.57	25400	89400	64000	3.52

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	Green gram	340	250	70.5	50	-	To mitigate daily requirement, education and health	60 mandays/ha
2	Chickpea (Var. NBeG-47)	596	400	60	100	50	To mitigate daily requirement, education and health	62 man days/ha

D. Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	Green gram Seed 30kg (Var. IPM 2-014) +500gm Rhizobium+2.5kg PSB per ha and Soil test based fertilizer application. PP chemical Flubendiamide 20%WG 200g/ha +Diafenthrun 50% WP 200g/ha + Tricocard 4pcs/ha + Pro bag 15 + Bavistin 1.2kg/ha	suitable	yes	yes	no	yes	
2	Chickpea 50kg seed (Var. NBeG-47) +800gm Rhizobium+10kg PSB per ha and Soil test based fertilizer application. PP chemical Fipronil 1 lit/ha +Lambada Cyhalothin2ml/lit+ Tricho card 50 pcs /ha + Pro bag 28/ha +2kg/ha	Var. NBeG-47 is suitable to the farming system	yes	yes	no	yes	

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Var. IPM 2-14 is Performing very good in terms of yield attributes and yield	Var. IPM 2-14Performing very good	Var. IPM 2-14Performing better yield in comparison to Local variety.	Farmers satisfied with this technology and demand huge amount of this variety of seed in proper time
Var. NBeG-47 is Performing very good in terms of yield attributes and yield	Var. NBeG-47 is performing very good	Var. NBeG-47 is performing better yield in comparison to Local variety.	Farmers satisfied with this technology and demand huge amount of this variety of seed in proper time

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Field day on green gram	22.03.2021 at Adendungri	25
2	Field day	12.3.2021 at Kanut	25

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

H. Farmers' training photographs

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

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Green gram (var IPM2-14)	i) Critical input	81000	81000	0
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)	2105	2105	0
	iv)Publication of literature	6295	6295	0
	V) Audit fee	600	600	0
	Total	90000	90000	0

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Chick pea (Var. NBeG-47)	i) Critical input	81000	81000	0
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)	2105	2105	0
	iv)Publication of literature	6295	6295	0
	v) Audit fee	600	600	0
	Total	90000	90000	0

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

A) Farmers and farm women (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
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.)													
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													

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
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management													
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													
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													

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													
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													
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													

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													
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													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs	1	14	0	14	1	0	1	0	0	0	15	0	15
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	**3**	**17**	**13**	**30**	**13**	**1**	**14**	**1**	**0**	**1**	**31**	**14**	**45**
Sheep and goat rearing	**1**	**11**	**0**	**11**	**2**	**0**	**2**	**2**	**0**	**2**	**15**	**0**	**15**
Quail farming													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Piggery													
Rabbit farming													
Poultry production	**1**	**13**	**0**	**13**	**2**	**0**	**2**	**0**	**0**	**0**	**15**	**0**	**15**
Ornamental fisheries													
Enterprise development													
Para vets													
Para extension workers	2	17	0	17	11	0	11	3	0	3	31	0	31
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
TOTAL	**8**	**72**	**13**	**85**	**29**	**1**	**30**	**6**	**0**	**6**	**107**	**14**	**121**

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Value addition													
Integrated Pest Management	1	4	2	6	4	0	4	2	0	2	10	2	12
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													

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
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	1	9	1	10	0	0	0	0	0	0	9	1	10
Livestock feed and fodder production	1	6	0	6	1	1	2	2	0	2	9	1	10
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
TOTAL	**3**	**19**	**3**	**22**	**5**	**1**	**6**	**4**	**0**	**4**	**28**	**4**	**32**

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													
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													

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 nutrient management													
Water management													
Enterprise development													
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.)													
Others, if any (Cultivation of Vegetable)													
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													

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													
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	1	25	0	25	0	0	0	0	0	0	25	0	25
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops	1	19	0	19	4	0	4	2	0	2	25	0	25
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any	1	25	0	25	0	0	0	0	0	0	25	0	25
IV. Livestock Production and Management													
Dairy Management	**3**	**60**	**0**	**60**	**2**	**0**	**2**	**13**	**0**	**13**	**75**	**0**	**75**
Poultry Management	**2**	**24**	**0**	**24**	**26**	**0**	**26**	**0**	**0**	**0**	**50**	**0**	**50**
Piggery Management													
Rabbit Management													
Disease Management													
Feed management	**3**	**43**	**0**	**43**	**14**	**1**	**15**	**17**	**0**	**17**	**74**	**1**	**75**
Production of quality animal products	**1**	**11**	**0**	**11**	**3**	**0**	**3**	**11**	**0**	**11**	**25**	**0**	**25**
Others, if any Goat farming	**2**	**46**	**0**	**46**	**2**	**0**	**2**	**2**	**0**	**2**	**50**	**0**	**50**
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													

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
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
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	3	33	0	33	24	0	24	18	0	18	75	0	75
Integrated Disease Management	5	61	0	61	43	0	43	26	0	26	130	0	130
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													

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
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													
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	**22**	**347**	**0**	**347**	**118**	**1**	**119**	**89**	**0**	**89**	**554**	**1**	**555**

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													

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
Planting material production	5	95	8	103	32	6	38	27	7	34	154	21	175
Vermi-culture	4	76	14	90	25	10	35	9	6	15	110	30	140
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements	1	6	0	6	10	0	10	4	0	4	20	0	20
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing	**3**	**64**	**0**	**64**	**37**	**0**	**37**	**4**	**0**	**4**	**105**	**0**	**105**
Quail farming													
Piggery													
Rabbit farming													
Poultry production	**2**	**23**	**0**	**23**	**11**	**0**	**11**	**28**	**8**	**36**	**62**	**8**	**70**
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													
Others, if any Floriculture	2	15	2	17	24	10	34	14	5	19	53	17	70

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
TOTAL	**17**	**279**	**24**	**303**	**139**	**26**	**165**	**86**	**26**	**112**	**504**	**76**	**580**

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													
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													
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)													
TOTAL													
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													
Exotic vegetables like Broccoli													

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)													
TOTAL													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
TOTAL													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
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													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management	1	25	0	25	0	0	0	0	0	0	25	0	25
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops	1	19	0	19	4	0	4	2	0	2	25	0	25
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any	1	25	0	25	0	0	0	0	0	0	25	0	25
TOTAL													
IV. Livestock Production and Management													
Dairy Management	3	60	0	60	2	0	2	13	0	13	75	0	75
Poultry Management	2	24	0	24	26	0	26	0	0	0	50	0	50
Piggery Management													
Rabbit Management													
Disease Management													
Feed management	3	43	0	43	14	1	15	17	0	17	74	1	75

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	1	11	0	11	3	0	3	11	0	11	25	0	25
Others, if any (Goat farming)	2	46	0	46	2	0	2	2	0	2	50	0	50
TOTAL													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
TOTAL													
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems													
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													
TOTAL													
VII. Plant Protection													

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	3	33	0	33	24	0	24	18	0	18	75	0	75
Integrated Disease Management	5	61	0	61	43	0	43	26	0	26	130	0	130
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
TOTAL													
IX. Production of Inputs at site													
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													

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 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													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. specify)													
TOTAL	**22**	**374**	**0**	**347**	**118**	**1**	**119**	**89**	**0**	**89**	**554**	**1**	**555**

ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Integrated farming													
Seed production													
Production of organic inputs	1	14	0	14	1	0	1	0	0	0	15	0	15
Planting material production	5	95	8	103	32	6	38	27	7	34	154	21	175
Vermi-culture	4	76	14	90	25	10	35	9	6	15	110	30	140
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements	1	6	0	6	10	0	10	4	0	4	20	0	20
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying	**3**	**17**	**13**	**30**	**13**	**1**	**14**	**1**	**0**	**1**	**31**	**14**	**45**
Sheep and goat rearing	**4**	**75**	**0**	**75**	**39**	**0**	**39**	**6**	**0**	**6**	**120**	**0**	**120**
Quail farming													
Piggery													
Rabbit farming													
Poultry production	**3**	**36**	**0**	**36**	**13**	**0**	**13**	**28**	**8**	**36**	**77**	**8**	**85**
Ornamental fisheries													
Para vets													
Para extension workers	2	17	0	17	11	0	11	3	0	3	31	0	31
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													

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
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)	2	15	2	17	24	10	34	14	5	19	53	17	70
TOTAL	25	351	37	388	168	27	195	92	26	118	611	90	701

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management	1	4	2	6	4	0	4	2	0	2	10	2	12
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals	1	9	1	10	0	0	0	0	0	0	9	1	10
Livestock feed and fodder production	1	6	0	6	1	1	2	2	0	2	9	1	10
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
TOTAL	**3**	**19**	**3**	**22**	**5**	**1**	**6**	**4**	**0**	**4**	**28**	**4**	**32**

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	RY	Qulaity Planting material production	3	Off	30	5	35	10	2	12
	RY	Qulaity Planting material production	3	Off	28	7	35	8	6	14
	RY	Qulaity Planting material production	3	Off	35	0	35	7	0	7
	RY	Qulaity Planting material production	3	Off	22	13	35	7	6	13
	RY	Qulaity Planting material production	3	Off	17	18	35	6	9	15
Plant Protection	F/FW	Cultural manipulation in cotton for management of sucking pest	1	Off campus	25	0	25	18	0	18
	F/FW	Management of leaf folder and stem borer in rice	1	Off campus	25	0	25	9	0	9
	F/FW	Management of sheath blight disease in rice	1	Off campus	25	0	25	15	0	15
	F/FW	Management of leaf hopper infection in solanaceous vegetables	1	Off campus	25	0	25	8	0	8
	F/FW	Management of BPH/WBPH in rice	1	Off campus	30	0	30	21	0	21
	F/FW	Management of shoot and fruit borer in brinjal	1	Off campus	25	0	25	12	0	12
	F/FW	Nature of damage	1	Off	25	0	25	12	0	12

		and management of Mites/thrips in chillie		campus						
	F/FW	Nature of damage and management of control of gram pod borer in Arhar	1	Off campus	25	0	25	16	0	16
	RY	Development of para extension workers for plant protection	1	ON campus	16	0	16	10	0	10
	IS	Vertebrate pest management (Monkey/Wild boars/ birds)	1	ON campus	9	3	12	6	0	6
	RY	New PP Chemicals and their use in major crops	1	ON campus	15	0	15	4	0	4
	RY	Method of operationa and maintainance of power sprayer	1	Off campus	20	0	20	14	0	14
Soil Science	F/FW	Techniques of soil sample collection and its testing	1	Off campus	25	0	25	0	0	0
	F/FW	Methods of zinc and boron application in rice	1	Off campus	25	0	25	6	0	6
	F/FW	Interpretation of soil health card for fertilizer use	1	Off campus	25	0	25	0	0	0
	RY	Vermicomposting techniques	3	On campus	15	0	15	1	0	1
	RY	Chemical fertilizers and computation of quality for field application	3	On campus	15	0	15	2	0	2
	RY	Vermicomposting techniques	3	Off	22	13	35	8	6	14

	RY	Vermicomposting techniques	3	Off	30	5	35	7	4	11
	RY	Vermicomposting techniques	3	Off	27	18	35	7	9	16
	RY	Vermicomposting techniques	3	Off	19	16	35	11	7	18
Animal Sc.	RY	Backyard poultry farming	3	Off	27	8	35	27	8	35
	F/FW	Methods of straw treatment and its benefit to the cows	1	Off	25	0	25	2	0	2
	F/FW	Cultivation and feeding strategies of Hybrid napier	1	Off	25	0	25	0	0	0
	RY	Small scale goat farming	3	Off	35	0	35	1	0	1
	RY	Small scale goat farming	3	Off	35	0	35	15	0	15
	RY	Small scale goat farming	3	Off	35	0	35	12	0	12
	F/FW	Thornless cactus as livestock fodder for rainfed wasteland	1	Off	25	0	25	13	0	3
	RY	Backyard poultry farming	3	Off	35	0	35	12	0	12
	F/FW	Strategies to increase milk production by mineral supplementation	1	Off	25	0	25	6	0	6
	F/FW	Feed supplementation for timely puberty in heifers	1	Off	24	1	25	10	1	11
	F/FW	Heat tolerant strains of poultry birds for backyard rearing	1	Off	25	0	25	1	0	1
	F/FW	Feeding	1	Off	25	0	25	0	0	0

		management in goats with respect to concentrate feedng								
	RY	Backyard and diplitter semi intensive poultry production	2	ON	15	0	15	2	0	2
	RY	Housing and feeding management in Goats	2	ON	15	0	15	3	0	3
	F/FW	Preparation of ghee as a value added dairy product	1	Off	25	0	25	14	0	14
	RY	Goatery under Biotech Kisan	5	ON	20	0	20	4	0	4
	F/FW	Rearing techniques in backyard poultry	1	Off	25	0	25	25	0	25
	RY	Ration planning and health management in dairy cows	2	ON	15	0	15	12	0	12
	IS	Antiparasitic drug resistance in livestock and strategies to control	1	ON	9	1	10	0	0	0
	F/FW	Gene upgradation strategies in goats	1	Off	25	0	25	4	0	4
	F/FW	Azolla cultivation strategies for feeding management in livestock	1	Off	25	0	25	10	0	10
	RY	Integrated livestock farming as a source of income generation	2	ON	15	0	15	2	0	2
	RY	Ethnoveterinary	2	ON	2	13	15	0	1	1

		medication for some important ailments in cows								
	IS	Ration planning in milch cows	1	ON	9	1	10	3	1	4
Horticulture	RY	Floriculture	1	Off	29	6	35	22	6	28
	RY	Floriculture	1	Off	24	11	35	16	9	25

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	
QPM	Production of planting material	Production of QPM	3	30	5	35				
QPM	Production of planting material	Production of QPM	3	28	7	35				
QPM	Production of planting material	Production of QPM	3	35	0	35				
QPM	Production of planting material	Production of QPM	3	22	13	35				
QPM	Production of planting material	Production of QPM	3	17	18	35				
Vermi	Organic farming	Vermicomposting	3	22	13	35				
Vermi	Organic farming	Vermicomposting	3	30	5	35				
Vermi	Organic farming	Vermicomposting	3	27	18	35				
Vermi	Organic farming	Vermicomposting	3	19	16	35				
Floriculture	Floriculture	Floriculture	3	29	6	35				
Floriculture	Floriculture	Floriculture	3	24	11	35				
Goatery	Scientific goat production	Small scale goat production	3	35	0	35				

Goatery	Scientific goat production	Small scale goat production	3	35	0	35				
Goatery	Scientific goat production	Small scale goat production	3	35	0	35				
Poultry	Poultry rearing in backyard	Backyard poultry production	3	27	8	35				
Poultry	Poultry rearing in backyard	Backyard poultry production	3	35	0	35				
Paddy	INM	Integrated nutrient and weed mgmt. in rice	5	20	0	20				
Onion	Package practice	Package of practices for improved onion cultivation	5	20	0	20				
Maize	Scientific cultivation	Scientific cultivation of maize and crop diversification	5	20	0	20				
Goatery	Scientific goat rearing	Commecial goatery as income gemerating activity	5	20	0	20				
Cereal	IPM	Advanced IPM practices for Cereal crops	5	20	0	20				

Sponsored Training Programmes…..NIL

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	4	102	18	120	32	2	1	3	104	19	123
Kisan Mela	4	590	60	650	35	30	8	38	620	98	718
Kisan Gosthi											
Exhibition	5	1850	350	2200	38	58	19	77	1908	369	2277
Film Show	12	210	50	260	12	-	-	-	210	50	260
Method Demonstrations	23	104	-	104	42	-	-	-	104	-	104
Farmers Seminar											
Workshop											
Group meetings	6	128	22	150	20	-	-	-	128	22	150
Lectures delivered as resource persons	23	965	135	1100	24	43	16	59	1008	194	1202
Advisory Services	18	180	30	210	15	-	-	-	180	30	210
Scientific visit to farmers field	142	845	120	965	-	25	12	37	870	132	1002
Farmers visit to KVK	320	-	-	320	-	-	-	-	-	-	320
Diagnostic visits	42	292	62	354	30	24	6	30	316	68	384
Exposure visits	5	90	-	90	12	-	-	-	90	-	90
Ex-trainees Sammelan											
Soil health Camp											
Animal Health Camp	2			75							75
Agri mobile clinic											
Soil test campaigns											
Farm Science Club Conveners meet											
Self Help Group Conveners meetings											
MahilaMandals Conveners meetings											
Celebration of important days (specify)											
Agriculture Education Day	1	14	13	27	15	5	-	5	19	13	32
International Women Day	1	-	60	60	10	4	-	4	4	60	64
Krishak Samman Nidhi	1	21	15	36	23	-	-	-	21	15	36

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
World Water Day	1	14	16	30	8	2	-	2	16	16	32
Women in agriculture day	1	-	34	34	18	-	3	3	-	37	37
World Soil day	1	64	11	75	22	16	6	22	80	17	97
Total											

B. Other Extension activities

3.5

Nature of Extension Activity	No. of activities
Newspaper coverage	6
Radio talks	5
TV talks	-
Popular articles	6
Extension Literature	2
Other, if any	-

3.5 a. Production and supply of Technological products

Village seed **…** NIL

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
Rice	Pooja	175	5,30,425				
	MTU -1156	61	1,74,460				
Grand Total		236	7,04,885				

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	Barkha	2000	58,025	3	2	5	10
Cabbage	Indu	2000		4	3	5	12
Tomato	Arka Rakshak	2200		3	4	3	10
Brinjal	VNR-212	2000		7	1	2	10
Chilli	Siam Hot	2000		8	1	1	10
Onion	AFLR	1,30,000		5	1	14	20
Marigold	Seracole	1,500		3	3	4	10
Fruits							
Mango							
Guava							
Lime							
Papaya	Red lady	1000	21,000	40	50	60	150
Banana							
Others							
Ornamental plants							
Medicinal and Aromatic							
Plantation							
Spices							
Turmeric							
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 (Bolangir)**				**West bengal**				**Total**			
Non Symbiotic Azotobacter																	
Vermi compost							6500	9750	22								
Azolla																	
Earth worms																	
Compost																	
Worms																	
Blue green algae																	
NADEP																	
Azatobactor																	
Azospirillum																	
PSB																	
Rhizobium																	
Azolla culture																	
Total																	
Bio-pestisides																	
Neem extract																	
Tobacco extract																	
Trichoder-maviride																	
Panchagavya																	
Trichoderma																	
Total																	
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 (Bolangir)**				**West bengal**				**Total**			
Eudriluseuniae																	
Total																	
Earth worm																	
Eiseniafoetida																	
Earth worm																	
Total																	
Bio-fungicides																	
Trichodermaviridae																	
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	Banaraja, kadaknath, Aseel	886	71,190	21	15	20	56
Broilers							
Layers							
Duals (broiler and layer)							
Japanese Quail							
Turkey							
Emu							
Ducks							
Others (Pl. specify)							
Piggery							
Piglet							
Hog							
Others (Pl. specify)							
Fisheries							
Indian carp							
Exotic carp							
Mixed carp							
Fish fingerlings							
Spawn							
Others (Pl. specify)							
Grand Total							

3.5. b. Seed Hub Programme - ***"Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India"*** ***…… NOT APPLICABLE***

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.	Short course Training	Basic application of remote sensing and GIS in Agril. and allied fields	Rahul Dev Behera SMS(Soil Sc. & Ag. Chem)	18-25.03.2021	CAET, OUAT, BBSR
2.	Short course Training	Vertebrate pest management	Ashis Das Scientist (Plant protection)	20-22.10.2021	NIPHM, Hyderabad
3.					
4.					
5.					

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	Jayadeb Merli

Address	Brahmanidungri, Loisingha
Contact details (Phone, mobile, email Id)	7735892296 (mail not available)
Landholding (in ha.)	3 ha.
Name and description of the farm/ enterprise	1 ha. Brinjal Cultivation and marketing with grading at sorting at point of production
Economic impact	Net income Rs 2,30,000 / ha. as against Rs 1,90,000 / ha wrt last year
Social impact	Motivated the brinjal growers for grading at sorting and reckoned as peer group leader
Environmental impact	Not studied
Horizontal/ Vertical spread	Brinjal growers of 8 ha. in nearby area are involved in grading at sorting of their produce under one roof in the evening and thereby marketing in the late night

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

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

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

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

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1	Millets	20	360	50	yes

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

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

1	Through trainings , phone calls , Field diagnostic visits , farmers visit to KVK	Need analysis of FW training
2	During expedition of FLD , OFT programmes and monitoring the programmes	Need analysis of FW/RY/IStraining
3	Extension activities like group meetings , Extrainees sammelan, field days , farmers fair, celebration of special days, other flagship programmes etc.	Need analysis of FW/ RYtraining
4	From line dept. officials and extension workers during SAC meeting, RE linkage interface meeting, Review meetings, workshop on kharif and Rabi programmes	Need analysis of IS training
5.	Flagship programmes , Top down approach by competent authority wrt urgency by central and state Govt.	No tool followed

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

Sl. No	Name of the Equipment	Qty.
1	Mridaparikshak soil testing kit	1
2	50 capacity soil testing kits	2

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
170	NIL	170	900	43	NIL

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	62	1	Smt. Bharati Mahanand,Chairperson, Zilla Parisad	20	100

3.12. Activities of rain water harvesting structure and micro irrigation system….. NOT AVAILABLE

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… NIL

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
4	60 days

ARS trainees trained	No of days stayed
NIL	

3.15. List of VIP visitors (Minister/ MP/MLA/DM/VC/Zila Sabhadipati/Other Head of Organization/Foreigners) …… NIL due to COVID restrictions

Date	Name of the person	Purpose of visit

4. IMPACT

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

Name of specific technology/skill transferred	**No. of participants**	**% of adoption**	**Change in income (Rs.)**	
			Before adoption	**After adoption**
IPM in vegetables	100	25	40,000/ ha	62,000/ ha
Prodn. technique in Greengram	50	30	12,000/ ha	18,000/ ha
Prodn. technique in Chickpea	25	20	16,000/ ha	23,000/ ha
Soil health enhancement	75	15	20,000/ ha	32,000/ ha
Crop Production technology	75	20	22,000/ ha	33,000 / ha
Novel pesticides for IPM	40	40	15,000/ ha	22,000/ ha
Backyard Poultry	50	40	5000/ year	20,000/ year
Homestead Goatery	20	80	3300/goat/year	4000/goat/year

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
Herbicide application in pulses	6000 ha
INM in Vegetables	3500 ha
IPM in Vegetables	2000 ha
Stress tolerant Rice production in rainfed ecosystem	32000 ha
Kitchen gardening	4300 households
Micronutrient application in Crucifer vegetables	750 ha.
Judicious use of pesticides	6500 ha

Give information in the same format as in case studies

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

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms
1	Use of ICT measures for different trainings and awareness programmes for farmers including attending programmes of national importance	Timely getting of information on plant protection, marketing of farm produce by 80 farmers during Covid restriction period. Not fruitful method when many have no android hand set and the locations were having poor network.	farmers got benefitted for implementation of advisories . But impact was very poor as farmers are not acquainted with this online mode
2	Awareness on control of Fall Army worm	19 villages took community approach to counter the fall army worm in Maize	150 farmers judiciously managed the insect pest in their maize crop
3	Low cost vermicomposting technology	Campaign in 16 villages for adopting vermicomposting for soil health management and income generation	20 farmers adopted the technology

4.4. Details of innovations recorded by the KVK

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

4.5. Details of entrepreneurship development

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

4.6. Any other initiative taken by the KVK

In the event of Pandemic situation of COVID-19, KVK has taken initiative to aware farmers on origin, nature of infection, disease syndrome , preventive measures to check spread , community guidelines to be followed etc . In the process 1100 farmers from 32 villages were sensitized . Use of mask , social distancing and hand sanitization was made mandatory for the visitors/ farmers / officials to KVK. Every training at KVK was associated with awareness programme on SOP on covid 19.

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	**Nature of linkage**
All line departments	Research- Extension linkage meeting to decide on convergence of works for farmers and work in field jointly for farmers
ATMA	Monitoring of BGREI, NFSM programmes, other related works as and when come
KVKs of neighbouring districts	Share of manpower, infrastructure, technology
NHB	Monitoring of Orchards for stockings on quality planting material
CHES, NRRI and other ICAR institutes	Knowledge and skill development, Input Procurement
ARD	Animal Health camp, Awareness camp on disease management
Reliance Foundation	Jal sakti abhiyan for judicious use of water, capacity devt. trainings
ICARDA, N. Delhi	Procurement of pulse seeds for rainfed situation , monitoring of tech. activities

AIR/ Doordarshan	Broadcast of tech. messages and audio conference with farmers

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.)
Establishment of district agromet unit	Crop advisory and awareness programmes to farmers	June. 2020	IMD	4,50,000 (a part released)
Biotech kisan	Establishment Hatchery unit , IFS	Feb. 2020	Dept. of Biotech	2,00,000

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

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Skill training under Biotech Kisan	Skill training and capacity development of farmers	Nov. 2020	Dept. of Biotechnology	2,00,000
Skill training under GKRA	Skill and Knowledge training migrant farmers	July 2020	ICAR	3,28,000

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area(Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1	Poly house	2011	90	Tomato, Brinjal , chilli, Onion, Cabbage, Cauliflower, Papaya	Seedlings	1,75,000	57,519	79,025	Sold to farmers
2	Crop cafetaria	2017	200						
3									
Total									

6.2. Performance of Instructional Farm (Crops)

Name	Date of sowing	Date of	Area (ha)	Details of production	Amount (Rs.)	Remarks

Of the crop		harvest		Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Rice	19.07.20	22.12.20	5 ha	Pooja	FS	175	4,10,000	5,30,425	To be sold to OSSC
Rice	25.07.20	05.12.20	2 ha	MTU 1156	FS	61		1,74,460	

6.3

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

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	6.5 Qtl.	6,000	9,750	Sold to farmers and use in the instructional farm

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.	Backyard Poultry	Aseel, Kadaknath, Banaraja	Brooded chicks	886	49,020	71,190	Sold to Farmers
2.							

6.5 Utilization of hostel facilities …. **Not available**

Accommodation available (No. of beds)

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

(For whole of the year)

6.6 Utilization of staff quarters…… **Not available**

Whether staff quarters has been completed:
No. of staff quarters:

Date of completion:
Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI

7 FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	**Name of the bank**	**Location**	**Account Number**
Savings Account(Flexi account , Surabhi scheme)	SBI, Bolangir	Bhagirathi Chowk	30966088644
Current Account	SBI, ADB, Bolangir	College Chowk	31149194881

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2021
	Kharif	Rabi	Kharif	Rabi	
		60,000		60,000	NIL

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2021
	Kharif	Rabi	Kharif	Rabi	
		1,80,000		1,80,000	NIL

7.4 Utilization of KVK funds during the year 2020-21 (Not audited) **(in lakhs)**

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	66.50	Available with comptroller , OUAT	
2	Traveling allowances	1.00	1.00	40,000
3	HRD	0.30	0.30	0.03
4	Contingencies			
A	Stationery / POL	5.05	5.05	5.05
B	Training (Meals & Refreshment) / training material	3.03	3.01782	3.01782
C	Frontline Demonstration	1.65	1.65	1.65
D	On farm Testings	1.00	1.00	1.00
E	Maintenance of building	2.00	NIL	NIL
F	SCSP	2.00	2.00	2.00
G				
H				
I				
J	Swachhta Expenditure	0.15	NIL	NIL
TOTAL (A)				
B. Non-Recurring Contingencies				
1	Library	0.10	0.10	NIL
2				
3				
4				
TOTAL (B)		0.10		
C. REVOLVING FUND		NIL	NIL	NIL
GRAND TOTAL (A+B+C)		82.90		

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)
2018-19	3,06,498.55	8,08,834	5,81,086	5,34,246
2019-20	5,34,246	6,91,369 + receipt of Rs 2,00,000 from DEE	8,57,820 (including return of Rs 4,00,000 to DEE)	5,67,795 (= Rs 1,38,301 as cash + Rs 4,29,494 as kinds)
2020-21	1,38,301	Rs 8,20,997 4,79,442 (from OSSC against pending bill) + 2,00,000 (from DEE as seed money) + 58,115 (sale proceed of seedlings) + 71,190 (sale proceed of poultry) + 12,250 (bank interest)	Rs 5,48,327 (4,08,129 for paddy)+ 91,178 for QPM + 49,020 for poultry)	Rs 4,10,971

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
SURVEY WORK for preparation of SREP	12	Rabi 2020-21		With ATMA	

8. Other information

8.1. Prevalent Insect Pest / diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
BPH infestation	Paddy	Oct 1st week	2300	10	Awareness programmes, capacity building of farmers
Fall Army worm	Maize	July 4th week	450	17	Workshop, field visit , advisory to farmers, KMAS
Bacterial leaf Blight	Paddy	August 2nd week	23000	15	Workshop, field visit , advisory to farmers, KMAS

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)
Lumpy skin disease	Cow	Incidence and prevalence , not in out break situation	Nil	Vaccination done by dist ARD	No serious disease reported in fish pond
Goat Pox	Goat		3%	Vaccination done by dist ARD	
FMD	Cow		Nil	Vaccination done by dist ARD	
RD	Poultry		50 %	-	
Avian pox	Poultry		3 %	Vaccination done by dist ARD	

9.1. Nehru Yuva Kendra (NYK)

Training….. NIL

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	32	8200
Livestock	11	2100
Fishery	nil	-
Weather	16	130
Marketing	6	345
Awareness	15	75
Training information	Nil	-
Other	6	5420
Total	86	

9.3. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	3462
2.	No. of farmers registered in the portal	15135
3.	Mobile Apps developed by KVK	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	

9.4. a. Observation of Swachh Bharat Programme …

Date/ Duration of Observation	Activities undertaken
22.07.21	Cleaning of Campus, nearby institute, Awareness among villagers for not using plastics
25.12.2020	Cleaning of Campus, nearby institute, Awareness among trainees on swacchata
22.03.2021	Cleaning of Campus, Awareness among participants during world water day

b. Details of Swachhta activities with expenditure….. **NIL**

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….. Nil

Date of Observation	Activities undertaken

9.6. Programme with Seema Suraksha Bal/ BSF…. Nil

Title of Programme	Date	No. of participants

9.7. Agriculture Knowledge in rural school…. Nil

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	Nil	Nil	Nil	Nil	Nil	Nil	Nil	55	2	57	Nil	Nil

9.9. Details of Swachhta Hi Sewa programme organized …. Nil

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)

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	Siba Prasad Barik	Village- Uparjhar, Bolangir-7608949481	Fodder farming, Goatery
2	Raju Sahu	Village- Dangaghat, Bolangir-9348522356	Dairy and Goatery
3	Udaya Naik	Village: Bargaon, Bolangir 9938732203	All season cultivation of sweet corn
4	Rajesh Meher	Village- Brahmnidungri , Loisingha 8249081380	Backyard poultry
5	Jayadev Merli	Village- Brahmnidungri , Loisingha 7735892296	Brinjal and Okra Cultivation
6	Indra Sahu	Village: Darlipali , Khaprakhol, -9556452190	Cotton
7	Pradumna Teji	Village:Magurbeda, Loisingha-9937623894	Relay cropping of Pointedgourd in single trellis system
8	Rajlal Chandan	Village: Bagbahal , Bongamunda ,Bolangir- 6370664136	Onion cultivation
9	Satyabrata Thati	Village:Banbahal, Bolangir-8658942615	Fishery
10	Mukunda Badhei	Village: Magurbeda, Loisingha-9439875271	Onion

9.12. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Revolving Head	Rs 6,20,997	OUAT

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
22.1.2021	IMD	Not functioning due to non installation of sensors

9.15. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Odisha	Bolangir	Contingent plan for drought situation	3	40	Contingent measures for crops, live-stock, Fisheries wrt delayed or abrupt cessation for few days to few weeks

10. Report on Cereal Systems Initiative for South Asia (CSISA)….. NOT APPLICABLE

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…. NOT APPLICABLE

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	8
2	Extension personnel trained by KVKs	Number	1
3	On-farm trials conducted by KVKs	Number	2
4	Frontline demonstrations conducted by KVKs	Number	4
5	Quantity of seeds produced	Quintal	0
6	Planting materials Produced	Number	7000
7	Livestock strains and fingerlings produced	Number	0
8	Soil & water samples tested	Number	0

13**.** Information pertaining to ARYA Project… Not applicable

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	

Crop Management

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

Livestock and fisheries

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

Institutional interventions

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

Capacity building

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

Extension activities

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

Detailed report should be provided in the circulated Performa

15. Awards/Recognition received by the KVK …..Nil

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
1	OUAT foundation day	Rajesh Meher	2020	OUAT	-	IFS

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

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

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 the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Paddy + Greengram production system	# Paddy var. Sahabhagidhan, line transplanting , herbicide oxadiargyl # Greengram var. TARM-1 paira, herbicide Imazethapyr, 1.5 % DAP spray once at flowering and second after 15 days # Mineral mixture @ 50 gm/cow, Fodder Hyb. Napier ;Dhingri mushroom (20 beds); Banaraja poultry(20 no.); Tissue culture banana G-naine(10 no.)	45,200 (FP 29,00)	2	
2	Paddy / Vegetable-Greengram production system	# Paddy Var. pratikshya, 15 days early transplanting , herbicide, almix, STBF application # Veg like Brinjal, tomato, onion, micronutrient application, herbicide pendimethalin , seed tratment and nursery treatment with metalaxyl & mancozeb # Greengram IPM 02-14, micronutrient, YMV management # Mineral mixture @ 50 gm/cow, Fodder Hyb. Napier ;Dhingri mushroom (20 beds); Banaraja poultry(20 no.); Tissue culture banana G-naine(10 no.)	1,20,800 (FP 77,000)	2	
3	Rice/ Groundnut-Greengram production system	# G.Nut var. Devi, Herbicide imazethapyr, micronutrient zypmite , drenching with chloropyriphos, seed dressing with biofertiliser, veg. like growing of onion, cauliflower, Tomato # Pooja var. transplanting 21 days old seedling, herbicide byspyribac sodium # Greengram Durga var. line sowing, Q.ethyl herbicide, micronutrient application. # Mineral mixture @ 50 gm/cow, Fodder Hyb. Napier ;Dhingri mushroom (20 beds); Banaraja poultry(20 no.); Tissue culture banana G-naine(10 no.)	88,600 (FP 55,100)	2	

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

	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…. NIL

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.)
2019-20	Master trainer on Poultry	T.Palai	14.02.2020	16.03.2020	20	Y	2,12,000
	Master trainer on Nursery	S. Muna	1.3.2020	23.03.2020 (incomplete due to lockdown)	20	N	1,54,800
2020-21	NIL						

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	
INM	INM and weed management in Rice	40 hours	4	-	1	-	15	-	20	-	20	40,000
Spices	Scientific cultivation of Onion	40 hours	3	-	5	-	12	-	20	-	20	40,000
Crop Diversification	Scientific cultivation of Maize & crop diversification	40 hours	5	-	2	-	13	-	20	-	20	40,000
Goatery	Commercial Goatery Rearing	40 hours	2	-	2	-	16	-	20	-	20	40,000
Plant Protection	Advanced IPM in Cereals	40 hours	4	-	3	-	13	-	20	-	20	40,000

23. Information on NARI Project (if applicable) Not 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 Already over and reported during 18-19

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
1	Bolangir	To be established , due to shifting of infrastructure to new administrative building		

Please provide one or two good quality photographs

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

Sl.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants
1	Inauguration of new administrative building and functioning	23.07.2020	KVK through online mode	Inauguration of new building to start activities	28

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

<table>
<tr><td>  </td><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Training of RY on AESA</td><td>FLD on Protein rice CRdhan -310</td><td>FLD on Finger millet var. Arjun</td><td>Animal Health Camp</td></tr>
<tr><td>  </td><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Training for migrant workers</td><td>OFT on S & B application in G.nut</td><td>OFT on Maize + Cowpea intercropping</td><td>OFT Zn deficiency in lowland rice</td></tr>
<tr><td>  </td><td>  </td><td>  </td><td>  </td></tr>
<tr><td>OFT on pretreated straw feeding to desi cows</td><td>FLD on application of microbial culture in Pigeon Pea</td><td>Crop cutting in Instructional farm</td><td>Certificate course training for Insecticide dealers</td></tr>
</table>

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 0 Q-2 0 Q-3 4 Q-4 6	Q-1 0 Q-2 0 Q-3 4 Q-4 4	Q-1 0 Q-2 0 Q-3 80 Q-4 75	**0** **0** Adoption 30 % Adoption 15 %
2	**Extension personnel trained by KVKs**	**Number**	Q-1 0 Q-2 0 Q-3 1 Q-4 1	Q-1 0 Q-2 0 Q-3 0 Q-4 1	Q-1 Q-2 Q-3 Q-4 12	Awareness on vertebrate pest management and issue of advisory at field by 12 field officials
3	**On-farm trials conducted by KVKs**	**Number**	Q-1 Q-2 Q-3 1 Q-4 1	Q-1 Q-2 Q-3 1 Q-4 1	Q-1 Q-2 Q-3 10 Q- 4 10	60 % Farmers adopted the IPM technology
4	**Frontline demonstrations conducted by KVKs**	**Number**	Q-1 0 Q-2 1 Q-3 3 Q-4 1	Q-1 0 Q-2 1 Q-3 3 Q-4 1	Q-1 Q-2 10 Q-3 30 Q-4 10	Kitchen garden Poultry birds in backyard has been practiced by 18 farmers
5	**Quantity of seeds produced**	**Quintal**	Q-1 **NIL** Q-2 Q-3 Q-4	Q-1 **NIL** 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 5000 Q-4 5000	Q-1 Q-2 Q-3 2000 Q-4 5000	Q-1 Q-2 Q-3 10 Q-4 15	Grown in Nutritional garden in the homestead by 8 no. of SC farm families
7	**Livestock strains and fingerlings produced**	**Number**	Q-1 Q-2 **NIL** Q-3 Q-4	Q-1 Q-2 **NIL** Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	**-**
8	**Soil & water samples tested**	**Number**	Q-1 Q-2 Q-3 12 Q-4 12	Q-1 Q-2 Q-3 08 Q-4 13	Q-1 Q-2 Q-3 23 Q-4 34	25 farmers are following soil test based fertilizer recommendation

**********end**********