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	
Senior Scientist & Head, Krishi Vigyan Kendra At-Arkabahali Pada Agriculture Farm Dist- Kalahandi Pin-766001 Ph. No-6373568845	--	--	kvkkalahandi.ouat@gmail. com

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

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture and Technology, Bhubaneswar Pin: 751 003	0674-2397362	2397933	deanextensionouat@yahoo.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Amitabh Panda	--	09437297307	amitabhp70@gmail.com

1.4. Year of sanction of KVK:1994

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

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/ Temporary	Category (SC/ST/ OBC/ Others)
1	Senior Scientist& Head	Dr. Amitabh Panda	Senior Scientist& Head	Horticulture	Rs. 22000/- AGP 8000/-	17.05.2018	Permanent	OT
2	Subject Matter Specialist	Sri Tapan Kumar Das	Scientist (Plant Protection)	Entomology	Rs15600-39100/- AGP6000/-	12.08.2005	Permanent	OT
3	Subject Matter Specialist	Smt. Tulasi Majhi	Scientist (Horticulture)	Horticulture	Rs15600-39100/- AGP6000/-	22.05.2012	Permanent	ST
4	Subject Matter Specialist	Dr. Madhumita Jena	Scientist (Agril. Extension)	Agril. Extension	Rs15600-39100/- AGP6000/-	08.04.2010	Permanent	OT
5	Subject Matter Specialist	Dr.Hrudananda Malik,	Scientist (Animal Science)	Animal Science	Rs15600-39100/- AGP6000/-	16.06.2015	Permanent	SC
6	Subject Matter Specialist	Miss Utkalika Naik,	Scientist(Agronomy)	Agronomy	Rs15600-39100/- AGP 5400/-	11.09.2018	Permanent	ST
7	Subject Matter Specialist	-	-	-	-	-	Permanent	-
8	Programme Assistant	Sri Srikrushana Behera,	Programme Asst. (Plant Physiology)	Plant Physiology	Rs9300-34800/- AGP Rs.4200/-	23.12.2015	Permanent	OT
9	Computer Programmer	Sri Dillip Barik,	Programme Asst. (Computer)	PGDCA	Rs9300-34800/- AGPRs.4200/-	04.12.2012	Permanent	OT
10	Farm Manager	-	-	-	-	-	Permanent	-
11	Accountant / Superintendent	-	-	-	-	-	Permanent	-
12	Stenographer	Miss Chandrakandi Mallick,	Jr. Steno-cum-Computer Operator	BA	Rs5200-20200/- AGP Rs.2400/-	28.07.2015	Permanent	SC
13.	Driver	Sri Keshaba Chandra Sa	Driver-cum-Mechanic	1Oth	Rs. 5200-20200/- AGP Rs.1900/-	19.07.2008	Permanent	OBC
14.	Driver	Sri Pradeep Kumar Pradhan	Driver-cum-Mechanic	10th	Rs. 5200-20200/- AGP Rs.1900/-	27.07.2015	Permanent	OT

15.	Supporting staff	Sri Bhuta Naik,	Peon-cum-Watchman	8th	Rs.4440-7440/- AGP Rs.1300/- Rs.6010/-	26.07.2008	Permanent	SC
16.	Supporting staff	Sri Sangita Goud,	Peon-cum-Watchman	8th	Rs. 4750-14680/- AGP Rs.1500/-	28.11.2014	Permanent	SC

1.6. Total land with KVK (in ha) :21.6 ha

S. No.	Item	Area (ha)
1.	Under Buildings	2.0
2.	Under Demonstration Units	1.0
3.	Under Crops	14.0
4.	Orchard/Agro-forestry	2.0
5.	Others with details	(1.3)
6.	IFS	0.4
7.	Rain Harvesting Structure	0.4
8.	Farm Path	0.5

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	Complete d up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building	Comple ted	Completed	Completed	Completed	Completed	5929	Used	ICAR
2.	Farmers Hostel	Comple ted	Completed	Completed	Completed	Completed	756.25	Used	ICAR
3.	Staff Quarters (6)	Comple ted (02no.)	Completed	Completed	Completed	Completed		Used	ICAR
4.	Piggery unit	Not yet started	--	--	--	--	--	--	--
5	Fencing		--	--	--	--	--	--	--
6	Rain Water harvesting structure	Not yet started	--	--	--	--	--	--	--
7	Threshing floor	Comple ted	Completed	Completed	Completed	Completed	210	Used	RKVY
8	Farm godown	Comple ted	Completed	Completed	Completed	Completed		Used	ICAR
9.	Dairy unit	--							
10.	Poultry unit	Comple ted	Completed	Completed	Completed	Completed	250	used	RKVY
11.	Goatary unit	ongoin g							
12.	Mushroom Lab	Comple ted	Completed	Completed	Completed	Completed	31.72	Used	RKVY
13.	Mushroom production unit	Comple ted	Completed	Completed	Completed	Completed	35.0	Used	RKVY
14.	Shade house						92.4		
15.	Soil test Lab	Comple ted	Completed	Completed	Completed	Completed	40.0	Used	ICAR
16	Portable carp hatchery	Comple ted	Completed	Completed	Completed	Completed		Not used	RKVY
17	Portable hatching unit (Poultry)	Not yet started	Completed	Completed	Completed	Completed		Not used	NICRA

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Bolero	2009	5,30,000	265000	Running condition
Tractor	2019	7,00,000	325 hrs	Running condition

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Nitrogen analyser	2003	2,70,000	All the equipment are in functional condition except Nitrogen analyser and incubator	ICAR
Spectrophotometer	2003	65,000		ICAR
Ph meter	2003	4400		ICAR
Conductivity Meter	2003	5500		ICAR
Hot air oven	2003	16,000		ICAR
Chemical balance	2003	12,000		ICAR
Mechanical shaker	2003	14,000		ICAR
Water Bath	2003	12,000		ICAR
Incubator	2003	45,000		ICAR
Mridaparikshak kit	2017	90,300		ICAR
Autoclave (Fully automatic)	2011	62,000	Functional condition	RKVY
Hot air oven	2011	15,000	Functional condition	RKVY
Laminar Air Flow	2011	49,000	Functional condition	RKVY
Weighing Balance	2011	5400	Functional condition	RKVY
b. Farm machinery				
Rotavator	2005	7,00000	Functional	ICAR
cultivator	2019	16,953	Functional	ICAR
MB plough	2005	31,000	Functional	ICAR
Power sprayer	2018	9500	Functional	ICAR
c.AV Aids				
Projector Epson S3	2018	30,900	AV aid is in functional condition	ICAR

D) Farm implements

Name of equipment	**Year of purchase**	**Cost (Rs.)**	**Present status**	**Source of fund**
Rotavator	2005	7,00000	Functional	ICAR
cultivator	2019	16,953	Functional	ICAR
MB plough	2005	31,000	Functional	ICAR
Power sprayer	2018	9500	Functional	ICAR

1.8. Details of SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	03.02.2021	25	Technology backstopping on small and minor millets to be promoted	Front Line Demonstration on integrated nutrient management (INM) in ragi was conducted during kharif, 2020. In collaboration with millet mission, 02 no. of capacity building programme followed by field day celebration and crop cutting to witness the crop yield.	
			Demonstration and farmers awareness on Fall army worm (FAW) in Maize	Awareness programme was conducted in close association with Dept. of Agriculture in mission mode towards creating awareness. Training programme on "FAW management" For wider publicity leaflets and bulletins were distributed to the farming community.	
			Promotion of farm machinery in agriculture particularly in activities i. e planting, harvest and post harvest practices	FLD on use of seed drill in direct seeded rice in irrigated medium land, demonstration on performance of portable cotton picker and ragi pearler cum thresher was showcased.	
			Popularization of recommended practices of weed management, disease & insect pest management of important crops	Awareness programme through E-pest surveillance. Training programme on blast disease management in paddy. FLD on weed management in groundnut and leaflets were distributed about management of major pest & diseases.	
			Emphasis on application of micronutrients in vegetables crops and suitable agro-techniques	FLD on foliar application of micro nutrient mixture in onion, FLD on popularization of single line trellis system in bittergourd and training on significance of micronutrient application in vegetable crops	

			For fetching better market price of fruits, trials on different ripening process.	OFT on different ripening method of banana was conducted.	
			Promotion of use of plant growth regulators in mango for regular bearing	FLD on plant growth regulator for crop regulation in mango.	
			Popularization of improved poultry breed suitable for backyard condition	Front line demonstration on kadaknath chicken and popularization of poultry breeds i.e rainbow rooster, chhabro, Banaraja etc was also taken up	
			Promotion of vaccination schedule, feed supplement and worm infestation of large ruminants	Front line demonstration on low cost silage and OFT on assessment of different oil cakes on performance of CB cows was taken up. Training on different vaccination schedule and de-worming in large ruminants	
			Institutional linkage of KVK with the line department should be strengthened	District level Research Extension Interface meeting is conducted every month involving all the line departments, Banks, leading NGOs and farmers to discuss the emerging issues and challenges of our district and reach out to the farmers in a collaborative way for holistic development of the farming community	
			Promotion of popular varieties of seeds, quality planting material and breeds of poultry	Under revolving fund, during 2019-20 a total of 1,36,128no. of seedling is distributed and papaya (var. Red lady), Drumstick (var.PKM-1), Mango (Var. Langra & Dashehri) varieties are promoted by KVK. Apart from seedlings, 3991 no. of poultry chicks (i.e rainbow rooster, chhabro, Banaraja), 1500 no of mushroom spawn bottles and 3061kg of vermi compost was supplied to the farm families	

** Salient recommendation of SAC in bullet form*

Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2018-19)

Sl. no.	Item	Information
1	Major Farming system/enterprise	Paddy+ Greengram Paddy+Paddy Cotton+ Fallow
2	Agro-climatic Zone	Western undulating
3	Agro ecological situation	Red Soil, Medium Rainfall, Medium elevation Red Soil, High Rainfall, Medium elevation Red Soil, High Rainfall, High elevation Red &Yellow Soil, High Rainfall, Medium elevation Black Soil, Medium Rainfall, Medium elevation Black Soil, High Rainfall, Medium elevation Alluvial Soil Forest Soil
4	Soil type	Red soil, mixed red & yellow and black soil
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Paddy – 42.0 Maize-34.9 Pigeonpea-9.2 Greengram-6.5 Groundnut- 19.7 Sunflower-14.6 Banana- 215.6 Mango-41
6	Mean yearly temperature, rainfall, humidity of the district	Temperature Max -32.7^{0}C Min-20.6^{0}C Humidity Max -68.9% Min-61.3% Rainfall :1208.6 mm
7	Production of major livestock products like milk, egg, meat etc.	

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1.	Kendugupka	Bhawanipatna	Kendugupka	Paddy, Cotton, Greengram Onion and seasonal vegetable	• High weed infestation in rice • Low yield due to moisture trace condition • Low yield due to Severe infestation of sucking pest in cotton • High cost involved in cotton harvesting (charges towards Labour cost) • Limited use of fertilizer • Low yield due to high bacterial wilt • Low yield due to • Infestation of sucking pest in vegetable crop	Weed Management Conservation of soil moisture Suitable cropping system Pest and disease management Farm machinery in harvest and post harvest operation Integrated nutrient management

2.	Salepali	M.rampur	Salepali	Paddy, Maize, Cauliflower, Groundnut Greengram Brinjal watermelon	• Low yield due to high pest incidence due to lack of knowledge about proper pest surveillance method in proper time • Low yield due to high incidence of Pest - FAW (Fall Army Worm) • Low yield due to Collar rot infestation during Kharif season • Low yield due to incidence of wilt • Less no. of female flower and fruit set **in watermelon**	Integrated pest management Integrated disease management Crop management practices Micronutrient management practices Use of organic products
3.	Charbahal	Junagarh	Dhaner	Paddy Banana Vegetables Animal Husbandry	•Low yield due to Severe infestation by different insect pests like SB, BPH, WBPH,LF, GM •Low yield due to Random application of Fertilizers •Less market demand of green colour ripened banana •Indiscriminate application of non targeted pesticide in improper dose and improper application •Less return due to Distress sale during harvesting •Low milk yield due to Poor feeding management •Low body weight gain due to high incidence of worm infestation •Lack vaccination and deworming in livestock • Improper feeding to livestock	Integrated disease pest management Nutrient management Processing and preservation Proper application of insecticide Market led agriculture Off season farming Feed and health management Vaccination and health management

4.	Majhiguda	Koksara	Majhiguda	Paddy Pigeonpea Maize Blackgram Animal husbandry	• Low Yield due to Use of susceptible variety and YSB in tillering stage • Low yield due to Severe infestation of pod borer complex during flowering time • Poor seed setting and small cub size • Banded leaf and sheath blight • High mortality of mother and its kid due to high incidence of PPR goat pox • Low income from backyard poultry due to Rearing of desi birds • Low body weight gain due to poor feeding management	Use of HYV and pest management practices Pest management Crop management Disease management Feeding management Rearing of semi intensive poultry chicks
5.	Bindhani	Karlamunda	Bindhani	Paddy Vegetables Pulses Fruits Animal husbandry	• Low yield due to Weed Infestation • Low yield due to high pest incidence due to lack of knowledge about proper pest surveillance method in proper time • Low yield due to incidence of mosaic virus in cowpea • Infestation of mite at reproductive stage of chilli • Low yield due to Irregular bearing of Mango • Low milk yield due to poor disease management • Low body weight gain due to poor genetic makeup of local goat	Weed management Pest and disease management in vegetable crops Production of organic inputs and organic farming Low cost feed management Feed and health management

Note: Please give recent data only

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

2. c. Details of village adoption programme:

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

Name of village	Block	Activities taken up for development
Kendugupka	Bhawanipatna	• FLD on popularisation of single trellis system in Bittergourd • FLD on application of herbicide for weed management in onion • Demonstration on Management of Fall Army Worm in maize • Demonstration on performance of Portable Cotton Picker • On farm testing on different type of dual purpose bird in back yard • Demonstration on probiotics in Kalahandi buffalo • Training programme on pest & disease management in cotton, rice, chilli and brinjal • Nutrient management in vegetable crops • Training programme on scientific bee keeping • Cultural management in chilli
Salepali	M.rampur	• FLD on ethrel application in watermelon for enhanced fruit setting • Demonstration on weed management in Groundnut • Training on Nursery management in off season vegetable. • Nutrient management in Greengram • Cultural Management practices of watermelon • Weed management in onion • Demonstration of portable brooder to check early mortality of chicks
Dhaner	Junagarh	• Demonstration cum training on plant growth regulators for crop regulation in Mango • Demonstration on Management of Stem Borer in Rice • Training on Value added product of Banana • Soil management in irrigated Paddy • Weed management in upland Rice • On farm testing on cotton oil cake as feed supplement to increase milk production in CB cows • Demonstration on low cost silage
Majhiguda	Koksara	• Demonstration on calcium supplementation on local goat for better performance Demonstration on superior egg laying duck breed • Training on Feeding management of Kalahandi buffalo for sustainable milk production • live stock management (Cow, goat & poultry) • On farm testing on cotton oil cake as feed supplement to increase milk production in CB cows • On farm testing on different type of dual purpose bird in back yard • Demonstration on AI on sex sorted semen • Conducting animal health camp
Bindhani	Karlamunda	• Demonstration on high yielding Pointed gourd variety Arka Neelachal Kriti • Demonstration on Management of Onion Thrips • Demonstration on feeding management in buffalo

		• Training on Planting method of Pointed gourd \ • Nursery management in off season vegetable • Weed management in Blackgram

Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Assessment of BPH tolerant rice varieties in shallow low land situation
2.	Problem diagnosed	Use of Susceptible Variety
3.	Details of technologies selected for assessment/refinement	Farmers Practice (TO-1): MTU-7029 Technology option-I (TO-2): CR Dhan 307 Technology option-II (TO-3): Hasanta
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT and NRRI
5.	Production system and thematic area	Pest Management
6.	Performance of the Technology with performance indicators	Plant height, No. Of Grains/panicle, No. of BPH/hill, Net Return, B:C ratio
7.	Final recommendation for micro level situation	Technology option-II; Use of resistant variety of rice (Hasanta) successfully minimize the important pest (BPH) hence it is recommended for farmers.
8.	Constraints identified and feedback for research	Maximum lands are medium land hence BPH tolerant/resistant rice varieties for medium land should also be developed.
9.	Process of farmers participation and their reaction	Farmers are interested for cultivation of Hasanta variety after seeing the OFT results in the field of some farmers.

Thematic area:

Problem definition: Use of Susceptible Variety

Technology assessed:

Farmers Practice (TO-1): MTU-7029

Technology option-I (TO-2): CR Dhan 307

Technology option-II (TO-3): Hasanta

Table:

Technology option	**No. of trials**	**Yield component**			**Disease/ insect pest incidence (%)**	**Yield (q/ha)**	**Cost of cultivation (Rs./ha)**	**Gross return (Rs/ha)**	**Net return (Rs./ha)**	**BC ratio**
		No. of effective tillers/hill	**No. of spikelet per panicle**	**Test wt. (100 grain wt.) (g)**						
(FP): MTU-7029	7	7.60	8.12	26.41	22.31	31.5	37500	58842	21342	1.57
(TO-I): CR Dhan 307	7	14.30	14.21	27.54	5.42	39.45	38000	73693	35693	1.94
(TO-II): Hasanta	7	15.10	18.11	27.91	3.66	40.75	37800	76121	38321	2.01

OFT-2

1.	Title of On farm Trial	Assessment of Eco-friendly management of pod borer in pigeonpea
2.	Problem diagnosed	Low yield of pigeonpea due to high infestation of pod borer during flowering , pod formation and pod maturing stage of the crop
3.	Details of technologies selected for assessment/refinement	TO-1: Application of Traizophous, Chloropyriphos@2.5ml/lit TO-2: Application of Azadirachtin 0.15%@ 1.5 Lit./ ha + Emamectin Benzoate 5SG @ 200gm/ha at 50% flowering and second 15-20 days after 1ST spraying. TO-3: Application of Azadirachtin 0.15%@ 1.5 Lit./ ha + Spinosad 45 SC @ 200 ml / ha at 50% flowering and second 15-20 days after 1ST spraying.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT, RRTTS Station Trial, Dhenkanal, 2017
5.	Production system and thematic area	pigeonpea- fallow IPM in pigeonpea
6.	Performance of the Technology with performance indicators	Pod borer incidence No of larvae/plant- 01, Natural Enemy Population- 35%, percent pod infestation at harvest- 2% Yield (q/ha)- 16 Net return (Rs/ha)- Rs. 66,000/- B:C ratio- 3.2
7.	Final recommendation for micro level situation	Application of Azadirachtin 0.15%@ 1.5 Lit./ ha + Emamectin Benzoate 5SG @ 200gm/ha at 50% flowering and second 15-20 days after 1ST spraying gives good result in comparison to TO-3
8.	Constraints identified and feedback for research	Farmers are not applying the recommended dose of pesticide in proper time and advised to apply in proper time after 50% flowering and second application at15-20 days after 1ST application.
9.	Process of farmers participation and their reaction	Farmers are actively participated in the programme and very much happy to see the result after application of proper pesticide in proper time.

Thematic area: IPM in pigeonpea

Problem definition: Low yield of pigeonpea due to high infestation of pod borer during flowering , pod formation and pod maturing stage of the crop

Technology assessed: TO-1: Application of Traizophous, Chloropyriphos@2.5ml/lit

TO-2: Application of Azadirachtin 0.15%@ 1.5 Lit./ ha + Emamectin Benzoate 5SG @ 200gm/ha at 50% flowering and second 15-20 days after 1ST spraying.

TO-3: Application of Azadirachtin 0.15%@ 1.5 Lit./ ha + Spinosad 45 SC @ 200 ml / ha at 50% flowering and second 15-20 days after 1ST spraying

Table

Technology option	**No. of trials**	**Yield component**			**Disease/ insect pest incidence (%)**	**Yield (q/ha)**	**Cost of cultivation (Rs./ha)**	**Gross return (Rs/ha)**	**Net return (Rs./ha)**	**BC ratio**
		No. of pod/plant	**No. of branch/plant**	**Test wt. (100 grain wt.)**						
TO-1	13	1050	17	61	15	10.1	28100	50,500	22,400	1.7
TO-2		1580	28	72	2	16	30,000	80,000	66,000	2.6
TO-3		1445	23	69	3	14.2	30,000	71,000	41,000	2.3

OFT-3

1.	Title of On farm Trial	Assessment of combine insecticides for management of major insect pest of rice
2.	Problem diagnosed	Low yield of rice due to heavy infestation of rice pest like rice stem borer, gall midge, leaf folder and BPH
3.	Details of technologies selected for assessment/refinement	TO-I: Application ofCartaphydrochloride 2gm/lit, Buprofenzin 1.5ml/LThiomethoxam @1gm/it TO-2 : application ofFlubendiamide 240 SC + Thiacloprid 240 SC (Belt Expert) @ 300 ml/ha twice i.e. at Tillering & P.I. stage for management of rice stem borer, gall midge, leaf-folder and BPH TO-3: Application of Ethiprole 40% + Imidacloprid 40% (Glamore) @ 125 g/ha twice i.e. at Tillering & P.I. stage for management of rice stem borer, gall midge, leaf-folder and BPH
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT annual report, 2017
5.	Production system and thematic area	Rice-greengram IPM in Rice
6.	Performance of the Technology with performance indicators	Silver shoot %- 2 Dead heart %- 2 WEH %- 2 BPH reduction %-80 LF reduction % - 90 Extent of infestation (%)- 90 Yield (q/ha)- 43 Net return (Rs/ha)- Rs. 44,195/- B:C ratio- 2.2
7.	Final recommendation for micro level situation	Alternate application of Flubendiamide 240 SC + Thiacloprid 240 SC (Belt Expert) @ 300 ml/ha twice i.e. at Tillering & P.I. stage and Ethiprole 40% + Imidacloprid 40% (Glamore) @ 125 g/ha twice i.e. at Tillering & P.I. stage for management of rice stem borer, gall midge, leaf-folder and BPH
8.	Constraints identified and feedback for research	Farmers are unwilling to purchase the pesticide due to high price Consortia may be develop for management of important pest of rice crop
9.	Process of farmers participation and their reaction	Farmers are actively participated in the programme and convinced after alternate application of the pesticide.

Thematic area: IPM in Rice

Problem definition: Low yield of rice due to heavy infestation of rice pest like rice stem borer, gall midge, leaf folder and BPH

Technology assessed:

TO-I: Application ofCartaphydrochloride 2gm/lit, Buprofenzin 1.5ml/LThiomethoxam @1gm/it

TO-2 : application ofFlubendiamide 240 SC + Thiacloprid 240 SC (Belt Expert) @ 300 ml/ha twice i.e. at Tillering & P.I. stage for management of rice stem borer, gall midge, leaf-folder and BPH

TO-3: Application of Ethiprole 40% + Imidacloprid 40% (Glamore) @ 125 g/ha twice i.e. at Tillering & P.I. stage for management of rice stem borer, gall midge, leaf-folder and BPH

Table

Technology option	**No. of trials**	**Yield component**			**Disease/ insect pest incidence (%)**	**Yield (q/ha)**	**Cost of cultivation (Rs./ha)**	**Gross return (Rs/ha)**	**Net return (Rs./ha)**	**BC ratio**
		No. of tiller/Hill	**No. of grain/panicle**	**Test wt. (100 grain wt.)**						
TO-1	13	12	82	23	15	35	35,000	65,275	30,275	1.8
TO-2		21	133	23	3	43	36,000	80,195	44,195	2.2
TO-3		18	124	23	5	39.5	36,000	73,667.5	37,667.5	2.04

OFT-4

1.	Title of On farm Trial	Assessment of suitable Brinjal variety for Kalahandi district
2.	Problem diagnosed	Low return due t o high incidence of wilt in Brinjal
3.	Details of technologies selected for assessment/refinement	TO1- Cultivation of Brinjal var. Blue star TO2- Cultivation of Brinjal var. Swarna Shakti TO3- Cultivation of Brinjal var. Swarna Ajay
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	RCER-ICAR, Patna
5.	Production system and thematic area	Varietal evaluation
6.	Performance of the Technology with performance indicators	Fruit Wt(gm), Plant height(Cm), Yield, Net income(Rs.), BC ratio
7.	Final recommendation for micro level situation	Fruits are oblong, medium length-12.5cm weight-112g and attractive light purple colour Yield- 325.6q/ha
8.	Constraints identified and feedback for research	This trail have been tested in RCER-ICAR, Patna resulting less wilt infestation in comparison to existing hybrids
9.	Process of farmers participation and their reaction	Brinjal var. Swarna Shakti yield- 315.2q/ha and Swarna Ajay yield- 325.6q/ha farmers prefer Swarna Shakti variety of brinjal due to its attractive shiny purple colour as compare to S. Ajay light in colour.

Thematic area: varietal evaluation

Problem definition: Low return due t o high incidence of wilt in Brinjal

Technology assessed: TO1-Cultivation of Brinjal var. Blue star

TO2- Cultivation of Brinjal var. Swarna Shakti (Fruits are oblong, medium length (15-17 cm), weight (250-300 g) and attractive shiny light purple colour, resistant to phomopsis blight and bacterial wilt, seed rate- 150-200g/ha, maturity- 55-65 DAP, Average yield- 70-75 t/ha)

TO3- Cultivation of Brinjal var. Swarna Ajay(Fruits are oblong, medium length (10-12 cm), weight (100-120 g) and attractive light purple colour, resistant to phomopsis blight and bacterial wilt, seed rate- 150-200g/ha, maturity- 50-55 DAP, Average yield- 70-75 t/ha)

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**
		Fruit Wt (g)	**Plant Height (Cm)**					
TO1	07	85.2	128.4	236.2	98700	283440	184740	2.8
TO2	07	89.7	98.5	315.2	120000	378240	258240	3.1
TO3	07	112	118.7	325.6	120000	390720	27070	3.2

OFT-5

1.	Title of On farm Trial	Assessment of different plant growth regulator for crop regulation in mango
2.	Problem diagnosed	Alternate bearing in mango orchards
3.	Details of technologies selected for assessment/refinement	TO1-Applicaton of fertilizer @ 110:80:110 gm NPK per plant per year without any hormone application TO2-Application of paclobutrazol@ 0.25g a.i./m^2 canopy spread TO3-Application of ethephon 5-8 sprays @ 200ppm fortnightly interval
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR, Annual Reports 2016-17 Source: Plant growth regulators, 2012, Directorate of Plant Protection Quarantine and Storage, GOI, MoAgril. (Document source: agritech.tnau.ac.in/crop_protection/pdf/8_Approved_uses_registered_PGR.pdf
5.	Production system and thematic area	Crop Management
6.	Performance of the Technology with performance indicators	Fruit yield per plant Flower Initiation, Yield, Net income(Rs.), BC ratio
7.	Final recommendation for micro level situation	Application of paclobutrazol (PBZ) at lower dose increased the flowering intensity in 6-12 year old mango trees without affecting vegetative growth. Soil application of PBZ through collar drench and ring method was more effective.
8.	Constraints identified and feedback for research	Flower initiation in the above trail has early as compare to farmer practices and result better yield.
9.	Process of farmers participation and their reaction	Farmers getting more yield as compare to their own practices. Application of Paclobutrazole result better than Ethephon application.

Thematic area: CropManagement

Problem definition: Alternate bearing in mango orchards

Technology assessed: TO1-Applicaton of fertilizer @ 110:80:110 gm NPK per plant per year without any hormone application
TO2-Application of paclobutrazol@ 0.25g a.i./m^2 canopy spread
TO3-Application of ethephon 5-8 sprays @ 200ppm fortnightly 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**
		Fruit yield/plant (Kg)	**Flower Initiation**					
TO1	07	12.2	1st week of January	112	76500	168000	91500	2.1
TO2	07	42.5	2nd week of December	185	101000	277500	176500	2.7
TO3	07	31.8	2nd week of December	164	101000	246000	145000	2.4

OFT-6

1.	Title of On farm Trial	Assessment of different Oil Cakes as Feed Supplement in Cross bred Cow
2.	Problem diagnosed	Low milk production, Low fat and SNF% in milk, Low growth rate in calf
3.	Details of technologies selected for assessment/refinement	**TO1**: Feeding of cow with 2.5 kg concentrate feed and straw per day **T02:** Feeding of cow @ 2.5 kg of concentrate feed + with 1 kg cotton oil cake + 10 kg green fodder per day **T03:** Feeding of cow @ 2.5 kg of concentrate feed + with 1 kg groundnut oil cake+ 10 kg green fodder per day
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	SVVU, Tirupati 2015-16, TNAU Agritech Portal
5.	Production system and thematic area	Semi-intensive, Feed management
6.	Performance of the Technology with performance indicators	Mean Milk Production (L/day), Mean Body weight gain of lactating cow during 60 days (Kg), Mean Body Condition Score (BCS), Mean Fat% , Mean SNF%
7.	Final recommendation for micro level situation	Cotton oil cake @ 1kg with balanced ration improves milk production in dairy cows
8.	Constraints identified and feedback for research	Non-availability of cotton oil cake at farmers dairy farm
9.	Process of farmers participation and their reaction	Farmers show interest for feeding of cotton oil cake to their dairy cows

Thematic area: Feed management

Problem definition: Low milk production, Low fat and SNF% in milk, Low growth rate in calf

Technology assessed:

TO1: Feeding of cow with 2.5 kg concentrate feed and straw per day

T02: Feeding of cow @ 2.5 kg of concentrate feed + with 1 kg cotton oil cake + 10 kg green fodder per day

T03: Feeding of cow @ 2.5 kg of concentrate feed + with 1 kg groundnut oil cake+ 10 kg green fodder per day

Table:

Technology option	No. of trials	Yield component			Mean Body Condition Score (BCS)	Mean Milk Production (L/day)	Cost of cultivation/ Cow	Gross Return /Cow	Net return/Cow	B:C
		Mean Body weight gain of lactating cow during 60 days (Kg)	Mean Fat%	Mean SNF%						
TO1	7	5.07	3.63	7.43	3.0	4.19	3900	6350	2450	1.62
T02	7	6.43	4.88	8.32	4.5	6.05	5925	12850	6925	2.16
T03	7	6.29	4.45	7.93	4.0	5.59	6050	11750	5700	1.94

OFT-7

1.	Title of On farm Trial	**Assessment of multi-enzyme mixture and probiotics on growth of chickens in semi intensive system of rearing.**
2.	Problem diagnosed	**Low body weight gain and high feed conversion ratio in backyard poultry**
3.	Details of technologies selected for assessment/refinement	**T01:-** Feeding of chickens with only commercial broiler feed **T02:** Feeding of back yard chicken with 50 gm of commercial broiler feed (added with probiotic mixture @ 0.05%) **T03:** Feeding of back yard chicken with 50 gm of commercial broiler feed (added with enzyme mixture @ 0.05%)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**CIFA annual report, 2015-16**
5.	Production system and thematic area	Semi-intensive, feed managment
6.	Performance of the Technology with performance indicators	Body wt gain, FCR, incidence of infection
7.	Final recommendation for micro level situation	Feeding of poultry bird with Mutienzyme mixture increase their FCR and cumulative body weight gain.
8.	Constraints identified and feedback for research	There is significant increase in body weight gain in compared to their own practice. There is also less feed intake per 1 kg body weight gain Occurrence of infection is also less with compared to untreated group
9.	Process of farmers participation and their reaction	Farmers show interest to feed multienzyme mixture and probioticcs to their poultry birds

Thematic area: Poultry management

Problem definition: **Low body weight gain and high feed conversion ratio in backyard poultry**

Technology assessed:

T01:- Feeding of chickens with only commercial broiler feed

T02: Feeding of back yard chicken with 50 gm of commercial broiler feed (added with probiotic mixture @ 0.05%)

T03: Feeding of back yard chicken with 50 gm of commercial broiler feed (added with enzyme mixture @ 0.05%)

Table:

Technology option	**No. of trials**	**Yield component**			**Cost of cultivation/ 10 birds**	**Annual Gross Return (Rs.) /10 birds**	**Annual Net return (Rs.) /10 birds**	**B:C**
		Cumulative BW gain during 8 wk of feeding (gm)	**FCR**	**Incidence of infection**				
TO1	7	351	3.25	5	2480	4430	1950	1.78
T02	7	510	2.8	2	3050	6800	3750	2.22
T03	7	486	2.95	2	3315	6300	2985	1.9

OFT-8

1.	Title of On farm Trial	Assessment of planting time for better market price of Cauliflower
2.	Problem diagnosed	Less monetary return to the farmers at the peak time of harvesting despite of higher production
3.	Details of technologies selected for assessment/refinement	Assessment TO-1 Planting at appropriate time (2nd fortnight of October) TO-2 Advancing of planting time by 30 days (2nd Fortnight of September) TO-3 Delaying of planting time by 30 days (2nd Fortnight of November)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	--
5.	Production system and thematic area	Vegetable-Vegetable Market led agriculture
6.	Performance of the Technology with performance indicators	TO-2 Price per Kg-50-55/- Gross Return (Rs/ha) 5,00,000 TO-3 Price per Kg-20-25/- Gross Return (Rs/ha) 3,96,000
7.	Final recommendation for micro level situation	Off season planting of cauliflower with optimum technical management yield a higher income despite of lower production due to high market price.
8.	Constraints identified and feedback for research	Standardization of Production practices of cauliflower in rainy season and management of damping off to maintain seedling population.
9.	Process of farmers participation and their reaction	Farmers reaction towards off season cultivation has changed for better and are more aware about market led production than production led agriculture.

Thematic area: Market led agriculture

Problem definition: Less monetary return to the farmers at the peak time of harvesting despite of higher production

Technology assessed: TO-1 Planting at appropriate time (2nd fortnight of October)

TO-2 Advancing of planting time by 30 days (2nd Fortnight of September)

TO-3 Delaying of planting time by 30 days (2nd Fortnight of November)

Table:

Technology option	**No. of trials**	**Yield component**			**Disease/ insect pest incidence (%)**	**Yield (q/ha)**	**Cost of cultivation (Rs./ha)**	**Gross return (Rs/ha)**	**Net return (Rs./ha)**	**BC ratio**
		No. of effective tillers/hill	**No. of spikelet per panicle**	**Test wt. (100 grain wt.)**						
TO -1	07					255	78500	255000	176500	3.24
TO-2	07					100	125200	500000	378400	4.1
TO-3	07					198	105000	396000	291000	3.7

Please provide all the OFTs in same format

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Rice	Rice blast management IDM in Rice	Seed treatment with @ carboxin 37.5%+ thiram 37.5% @2.5 gm/kg and foliar spraying of tricyclazole @ 0.06% twice at 15 days interval starting from the initiation of disease.	2.0	2.0	2	0	0	0	8	0	10	0	10	
2.	Maize	FAW management in maize IPM in maize	Application of 5% NSKE/ Azadirachtin 1500 PPM @ 5ml/l of water during egg laying stage to avoid egg hatching. *Application of Metarhizium anisopliae* @ 5gm/l of water at 15-25 days after sowing Application of Emamectin benzoate @ 0.4 gm/l of water to manage the 2nd & 3rd instars larvae.	1.0	1.0	0	0	0	0	10	0	10	0	10	

3.	Rice	Management of stem borer in rice IPM in Rice	Release *Trichogramma chilonis* @ 20,000/acre thrice at 7 days interval . First release will be done at 30 DAT One spray of Rynaxypyr 150 ml/ha and one spray of spinetoram 6%+methoxyfenozide 30% SC @ 400 ml/ha alternately at 15 days and 45 DAT	2.0	2.0	0	0	0	0	10	0	10	0	10	
4.	Onion	Management of onion thrips IPM in Onion	Plant maize (2 rows) as border crop 30 days prior to the transplanting of onion crop Need based alternate spray of Methomyl @ 0.8g/l at 30 DAT (with spreader @ 0.5-1%) and Profenophos @ 1ml/lit at 10 days interval	1.0	1.0	0	0	0	0	10	0	10	0	10	
5.	Ragi	Post Harvest Technology	Demonstration of ragi thresher cum peeler (Machine can operate in 1.0 hp electricity output 85.kg/ha)	--	--	0	0	5	0	8	0	13	0	13	
6.	Cotton	Harvest Technology	Portable cotton picker	--	--	0	0	4	0	9	0	13	0	13	

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					
Pigeon pea	Kharif	Rainfed	Sandyloam	169.5	45.58	163.0	Fallow	1st week of July	2nd week of November	744.6	60
Ragi	Kharif	Rainfed	Red soil	196.5	78.65	109.6	Fallow	1st week of July	2nd week of November	1048	71
Rice	Kharif	Irrigated	Black cotton	204	48	424	Greengram	3rd week of July	1st week of December	744.6	60
Maize	Kharif	Rainfed	Sandy loom	169	47	210	Fallow	4th week of June	1st week of November	1048	71
Onion	Rabi	Irrigated	Black soil	209	54	328	Rice	2nd week of November	4th week of February	3.8	1
Rice	Summer	Irrigated	Clay loom	202	87	220	Rice	2nd week of February	continuing	9.2	2
Bittergourd	Kharif	Rainfed	clay loamy to black soil	369.5	34	238	Brinjal	3rd week of June	4th week of September	911.2	49
Onion	Rabi	Irrigated	Sandy loam to black soil	404.84	29	367	Paddy	2nd week of December	1st week of March	9.2	2
Watermelon	Rabi	Irrigated	Sandy loam	423.4	40	362	Paddy	2nd week of January	4th week of april	9.2	2
Ragi	Kharif	Rainfed	Red soil	194	41	410	Fallow	1st week of July	2nd week of November	1048	71
Cotton	Kharif	Rainfed	Black soil	197.5	48.58	133.0	Cotton	2nd week of june	2nd week of December	1048	71

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

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

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

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

Pulses
Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Pigeon pea	Seed treatment	Demonstration of micronutrient application as Seed treatment in Pigeonpea	13	3	12.56	10.12	24.11	25500	75360	49860	2.95	23800	60720	36920	2.55
	Total														

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

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Ragi	Integrated Nutrient Management	Demonstration on Integrated nutrient management in Ragi	13	2	8.68	6.96	24.71	No. of effective tillers/hill-2.35 No. of effective fingers/hill -1.16	No. of effective tillers/hill-5.13 No. of effective fingers/hill -2.36	15600	28600	13000	1.83	13500	22933.2	9433	1.70
Onion	Weed Management	Demonstration on application of herbicide for weed management in onion	13	0.52	297.2	232.5	27.82	WPC-1.2	WPC-8.5	86200	237760	151560	2.7	72600	186000	113400	2.5
Watermelon	Crop Management	Demonstration on ethrel application in watermelon for enhanced fruit setting	13	0.52	252.2	215.6	16.97	No. of Female flower-5.8 Fuit Wt-7.2Kg	No. of Female fower-3.4 Fruit Wt.- 8.6 Kg	54500	126100	71600	2.3	52700	107800	55100	2.0
Bittergourd	Crop Management	Demonstration on popularisation of single trellis system in Bittergourd	13	0.52	180	140	28.57	Fruit Wt-112g	Fruit wt-82g	120000	360000	240000	3.0	98700	280000	181300	2.8
Total																	

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy		Demonstration on low cost silage making for feeding cows during lean period	13	13	Mean Milk Production (L/day) 5.55	Mean Milk Production (L/day) 4.45	24.71	Mean Fat% 4.7	Mean Fat% 3.6	5700	10500	4800	1.84	3525	5750	2225	1.63
Cow		Demonstration on Artificial Insemination of cross bred cow with Sex sorted semen	13	13	Conception rate 65%	Conception rate 46%	41.30	Disease incidence rate 5.5%	Disease incidence rate 8.5%	6450	11500	5050	1.78	3350	5500	2150	1.64

Buffalo		Demonstration on prebiotic supplementation in Kalahandi buffalo	13	13	Mean Milk Production (L/day) 4.45	Mean Milk Production (L/day) 3.25		Mean Fat% 4.8	Mean Fat% 4.2	5170	9750	4580	1.88	3425	5400	1975	1.57
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl.specify)																	
Total																	

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

Fisheries

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

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

** BCR= GROSS RETURN/GROSS COST

Other enterprises

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

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

** BCR= GROSS RETURN/GROSS COST

Women empowerment

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

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)	Cost reduction (Rs./ha or Rs./Unit)
					Demonstration	Check			
Ragi thresher cum peeler	Ragi	Demonstration of ragi thresher cum peeler (Machine can operate in 1.0 hp electricity output 85.kg/ha)	13	--	58kg/hr	5.8kg/hr	--	4	Rs. 600/ha
Portable cotton picker	Cotton	Portable cotton picker Cotton picking is performed by portable cotton picker. (hand operated machine, has a pair of chain with small sharp edged teeth. It is operated by a light weight 12V battery)	13	--	24.54	22.02	11.4	6	Rs. 1000/ha

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

Demonstration details on crop hybrids

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

Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl. specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (Pl. specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal	Swarna Ajay	7	0.4	31520	23620	33.4	120000	378240	258240	3.1
Brinjal	Swarna Shakti	7	0.4	32560	23620	37.8	120000	390720	27070	3.2
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.	Paddy	After witnessing the yield potential (40.75) and lower rate of BPH incidence 3.66% , farmers are interested to cultivate variety Hasant in medium land
2.	Bittergourd	Trellis system with GI wire and plastic twine Significantly higher fruit yield, lower fruit loss, pest population and low disease intensity were recorded in single line trellis system. Cost of construction in single line system was also less as against the farmers' practice of bower trellis.
3.	Onion	Pre emergence application of Pendimethalin 750 g/ha followed by application of Quizalophop-p-ethyl 50 g/ha at 20 DAS is less weed growth to get higher yield and more economic to the farmers.
4.	Watermelon	Spray Ethrel 2.5 ml/10 lit of water 4 times at weekly intervals commencing from 15 days after sowing getting more no. of female flower(5.8) and higher yield- 252.2q/ha as compare to farmers practices yield-215.6q/ha and no. of female flower(3.4)
5.	Cotton	Farmers are highly impressed as it can be an best alternative in times of labour shortage although it can not completely replace the manual system of harvesting but it can definitely improve the quality of cotton picking and can save the time as well as its working efficiency is approximately 35% higher than manual method of picking.
6.	Ragi	Traditional method of processing was time consuming, pain staking and minimal output (25kg/day). Ragi thresher cum peeler makes the process very easy as it requires two labour and the output per hour is 65kg/hr.
7.	Cow	Silage feeding increase 25 % milk production in CB cows Silage feeding decreases cost of milk production to 23% Silage feeding improves coat texture of cattle and makes it shining and glossy
8.	Cow	Artificial insemination with sex sorted semen resulted in female conceptus (female foetus) It decreases diseases incidence It improves better fertility management
9.	Buffalo	There is increases in milk production in buffalo-23% Probiotic feeding improves SNF and Fat5 in buffalo milk It decreases worm infestation and diseases incidence
10.	Poultry	Kadaknath chicken is resistant to heat and cold stress Kadaknath chicken is also resistant to common poultry diseases Growth rate of kadaknath chicken is better than desi chicken and it fetches better price

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training	26.8.2020, 20.10.2020, 28.10.2020, 16.12.2020	4	100	Disease pest management of paddy and pigeon pea
3.	Media coverage				
4.	Training for extension functionaries				

5.	Field days				
6.	Farmers Training	29.08.2020	01	25	Nutrient management in irrigated paddy
7.	Media coverage				
8.	Training for extension functionaries	30.09.2020	01	10	Fertilizer classification and method of application in rice
9.	Field days				
10.	Farmers Training	28.09.2020	01	25	Nutrient management in Ragi
11.	Media coverage				
12.	Training for extension functionaries				
13.	Field days				
14.	Farmers Training	09.10.2020	1	25	Single trellis system in bittergourd
15.	Media coverage				
16.	Training for extension functionaries				
17.	Field days				
18.	Farmers Training	26.8.2020,	1	25	Feeding management of cows and buffalo
19.	Media coverage				
20.	Training for extension functionaries				
21.	Field days				
22.	Farmers Training	20.10.2020	1	25	Fertility management of CB cows
23.	Media coverage				
24.	Training for extension functionaries				
25.	Field days				
26.	Farmers Training	28.10.2020	1	25	Feeding management of Kalahandi buffalo for sustainable milk production
27.	Media coverage				
28.	Training for extension functionaries				
29.	Field days				
30.	Farmers Training	16.12.2020	1	25	Fodder cultivation and silage making
31.	Media coverage				
32.	Training for extension functionaries	25. 12. 2020	1	10	Advanced reproductive technologies at farmers dairy unit for sustainable milk yield
33.	Field days				
34.	Farmers Training				
35.	Media coverage				

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
	Green gram	Kalamuga	5.8	6.5	4.6	10-12	Seed treatment with appropriate Rhizobium & PSB culture (bacteria culture) @20 grams of culture per 1kg of seed before sowing greatly helps in germination. Application of imazethapyr 10% SL (post- emergence) to control weed infestation. Instalation of yellow sticky trap @50 no/ha for monitoring and management of Whitefly. Spraying of Carbendazim12 % +Mancozeb63%WP@ 1kg/ha for management of Cercospora leaf spot . Spraying of Copper oxychloride 50%WP 1.5gm/lit of water for control of Powdery mildew. Spraying of Azadirachtin 0.3%@	26	20	7.2	6.3	6.8	4.61	47.8	-61.7

							2.5 Lit./ ha to control aphid/thrip population.								

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	IPM 2-14 Seed treatment with appropriate Rhizobium & PSB culture (bacteria culture) @20 grams of culture per 1kg of seed before sowing greatly helps in germination. Application of imazethapyr 10% SL (post- emergence) to control weed infestation. Instalation of yellow sticky trap @50 no/ha for monitoring and management of Whitefly. Spraying of Carbendazim12 % +Mancozeb63%WP@ 1kg/ha for management of Cercospora leaf spot . Spraying of Copper oxychloride 50%WP	18100	40600	22500	2.24	20200	47600	27400	2.35

	1.5gm/lit of water for control of Powdery mildew. Spraying of Azadirachtin 0.3%@ 2.5 Lit./ ha to control aphid/thrip population								

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)
	Green gram, IPM 2-14	650	50	70	100	400	Next farming season	22

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
	Application of imazethapyr 10% SL (post- emergence) to control weed infestation.	The variety, pest & disease and weed management technology is perfectly suitable to the farming system	This variety is The variety, pest & disease and weed management technology is perfectly suitable to the farming system.	The duration of the crop and yield result is liked by the farmers.	No such cases has been recorded	Yes, the technology and variety is acceptable by the villagers/beneficiaries	Application of imazethapyr 10% SL (post- emergence) to control weed infestation.
	Installation of yellow sticky trap @50 no/ha for monitoring and management of Whitefly						

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis	Farmers Feedback

		Local Check	
No. of Pod/plant	28	21	On time Crop management practices and suitable wearther (Weed, insect and disease management) will definitely results into higher yield.
No of seed/pod	8-10	8-10	
1000seed weight (gm)	25.2	20.5	

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training cum critical input distribution to the beneficiaries	10.12.2020 Degaon and Bankel	18
2.	Training cum method demonstration on weedicide application	08.01.2021 Degaon and Bankel	18
3.	Scientist visit to farmers field & distribution of critical inputs	13.01.2021, 25.02.2021 Bankel	28
4.	Scientist visit to farmers field & distribution of critical inputs	18.01.2021, 25.02.2021 Degaon	35
5.	Scientist visit to farmers field to monitor crop growth	12.03.2021, 23.03.2021 Degaon and Bankel	35

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.)
	i) Critical input	--	57862	--
	ii) TA/DA/POL etc. for monitoring	--	--	--
	iii) Extension Activities (Field day)	--	200	--
	iv)Publication of literature	--	--	--
	Total	90,000	58062	31938

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													
Micro irrigation systems of orchards													

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
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													

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
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any Goat farming													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
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													

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													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													

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

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	1	0	7	7	0	7	7	0	1	1	0	15	15
Bee-keeping	1	21			4						25		25
Integrated farming	1	0	10	10	0	2	2	0	3	3	0	15	15
Seed production													
Production of organic inputs	1	5	0	5	-	-	-	3	7	10	8	7	15
Integrated Farming													
Planting material production													
Vermi-culture	1	8	1	9	1	2	3	1	2	3	3	12	15
Sericulture													
Protected cultivation of vegetable crops	1	9	0	9	1	0	1	5	0	5	15	0	15
Commercial fruit production													
Repair and maintenance of farm machinery and													

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
implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying	1	6	-	6	7	-	7	2	-	2	15	0	15
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	7	0	7	4	0	4	4	0	4	15	0	15
Ornamental fisheries													
Enterprise development													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
TOTAL	8	56	18	53	17	11	24	15	13	28	81	49	130

B) Extension Personnel (on campus)

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

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	2	20	0	20	0	0	0	0	0	0	20	0	20
Integrated Nutrient management	1	2	2	4	0	2	2	2	2	4	4	6	10
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization	1	3	0	3	5	0	5	2	0	2	10	2	10
Information networking among farmers	1	1	2	3	0	3	3	2	2	4	3	7	10
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													
Other (Soil Testing)	1	5	0	5	3	0	3	2	0	2	10	0	10
Other (Public private partnership)	1	7	2	9	0	1	1	0	0	0	7	3	10
Other (Extension Training Management)	2	8	3	11	3	3	6	3	0	3	14	6	20
TOTAL	9	46	9	55	11	9	20	11	4	15	68	24	90

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	6	38	74	112	5	1	6	6	26	32	49	101	150
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Integrated Farming													
Water management													
Seed production													
Nursery management	2	8	18	26	14	0	14	9	1	10	31	19	50
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)	9	36	85	121	3	13	16	47	41	88	86	139	225
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	2	5	15	20	2	-	2	3	25	28	10	40	50
Water management													
Enterprise development													
Skill development	1	2	5	7	8	5	13	-	5	5	10	15	25
Yield increment													
Production of low volume and high value crops													
Off-season vegetables	1	21	2	23	-	-	-	1	1	2	22	3	25
Nursery raising	1	2	14	16	2	-	2	2	5	7	6	19	25
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)	3	2	15	17	18	18	36	10	12	22	30	45	75
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit	1	3	12	15	-	5	5	-	5	5	3	22	25
Management of young plants/orchards	1	-	5	5	-	15	15	-	5	5	-	25	25
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards	1	-	-	-	-	25	25	-	-	-	-	25	25
Plant propagation techniques	1	2	5	7	-	-	-	3	15	18	5	20	25
Others, if any(INM)	1	10	15	-	-	-	-	-	-	-	10	15	25
c) Ornamental Plants													
Nursery Management													
Management of potted plants													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any	1	3	11	14	8	3	11	-	-	-	11	14	25
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	3	10	12	22	17	18	35	7	11	18	34	41	75
Poultry Management	5	8	12	20	41	64	105				49	76	125
Piggery Management													
Goat Management	3	27	28	55	1	9	10	8	2	10	36	39	75
Disease Management	2	19	25	44				1	5	6	20	30	50

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Feed management	2	10	2	12	2	3	5	20	13	33	32	18	50
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	9	119	40	159	29	14	43	12	11	23	160	65	225
Integrated Disease Management	3	40	6	46	11	6	17	8	4	12	59	16	75
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													

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
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	58	365	401	741	161	199	360	137	187	324	663	787	1450

E) RURAL YOUTH (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													

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
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any													
TOTAL													

F) Extension Personnel (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management	2	16	4	20	0	0	0	0	0	0	16	4	20

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													
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	1	5	0	5	3	0	3	2	0	2	10	0	10
Livestock feed and fodder production	1	7	0	7	3	0	3	0	0	0	10	0	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													
TOTAL	4	28	4	32	6	0	6	2	0	2	36	4	40

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	6	38	74	112	5	1	6	6	26	32	49	101	150
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
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
Water management													
Seed production													
Nursery management	2	8	18	26	14	0	14	9	1	10	31	19	50
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)	9	36	85	121	3	13	16	47	41	88	86	139	225
TOTAL													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	2	5	15	20	2	-	2	3	25	28	10	40	50
Water management													
Enterprise development													
Skill development	1	2	5	7	8	5	13	-	5	5	10	15	25
Yield increment													
Production of low volume and high value crops													
Off-season vegetables	1	21	2	23	-	-	-	1	1	2	22	3	25
Nursery raising	1	2	14	16	2	-	2	2	5	7	6	19	25
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	3	2	15	17	18	18	36	10	12	22	30	45	75
Others, if any (Cultivation of Vegetable)													
TOTAL													
b) Fruits													
Training and Pruning	1	3	12	15	-	5	5	-	5	5	3	22	25
Layout and Management of Orchards	1	-	5	5	-	15	15	-	5	5	-	25	25
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards	1	-	-	-	-	25	25	-	-	-	-	25	25
Export potential fruits	1	2	5	7	-	-	-	3	15	18	5	20	25
Micro irrigation systems of orchards	1	10	15	-	-	-	-	-	-	-	10	15	25

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
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	1	3	11	14	8	3	11	-	-	-	11	14	25
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													
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													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
TOTAL													
IV. Livestock Production and Management													
Dairy Management	3	10	12	22	17	18	35	7	11	18	34	41	75
Poultry Management	5	8	12	20	41	64	105				49	76	125
Piggery Management													
Rabbit Management (Goat)	3	27	28	55	1	9	10	8	2	10	36	39	75
Disease Management	2	19	25	44				1	5	6	20	30	50
Feed management	2	10	2	12	2	3	5	20	13	33	32	18	50
Production of quality animal products													
Others, if any (Goat farming)													
TOTAL													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of													

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 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													
Integrated Pest Management	9	119	40	159	29	14	43	12	11	23	160	65	225
Integrated Disease Management	3	40	6	46	11	6	17	8	4	12	59	16	75
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													

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
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													
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													

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													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. specify)													
TOTAL	58	365	401	741	161	199	360	137	187	324	663	787	1450

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	1	0	7	7	0	7	7	0	1	1	0	15	15
Bee-keeping	1	21			4						25		25
Integrated farming	1	0	10	10	0	2	2	0	3	3	0	15	15
Seed production													
Production of organic inputs	1	5	0	5	-	-	-	3	7	10	8	7	15
Planting material production													
Vermi-culture													
Sericulture	1	8	1	9	1	2	3	1	2	3	3	12	15
Protected cultivation of vegetable crops	1	9	-	9	1	-	1	5	-	5	15	-	15
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	1	6	-	6	7	-	7	2	-	2	15	0	15

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	7	0	7	4	0	4	4	0	4	15	0	15
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)													
TOTAL	8	56	18	53	17	11	24	15	13	28	81	49	130

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	2	16	4	20							16	4	20
Integrated Nutrient management	1	2	2	4	0	2	2	2	2	4	4	6	10
Rejuvenation of old orchards													
Value addition													

Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization	1	3	0	3	5	0	5	2	0	2	10	2	10
Information networking among farmers	1	1	2	3	0	3	3	2	2	4	3	7	10
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals	1	5	0	5	3	0	3	2	0	2	10	0	10
Livestock feed and fodder production	1	7	0	7	3	0	3	0	0	0	10	0	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	1	7	2	9	0	1	1	0	0	0	7	3	10
Others if any	3	13	3	16	6	3	9	5	0	5	24	6	30
TOTAL	11	54	13	67	17	9	26	13	4	17	84	28	110

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

Discipline	**Clientele**	**Title of the training programme**	**Duration in days**	**Venue (Off / On Campus)**	**Number of participants**			**Number of SC/ST**		
					Male	**Female**	**Total**	**Male**	**Female**	**Total**
Agronomy	F/FW	Soil Test Based Nutrient management of Rice in rainfed upland situation.	1	off	8	17	25	0	8	8
Agronomy	F/FW	Soil management in irrigated Paddy	1	off				0	9	9
Agronomy	F/FW	Farm mechanization in DSR.	1	off	2	23	25	0	10	10
Agronomy	F/FW	Weed management in upland Rice	1	off	0	25	25	0	15	15
Agronomy	F/FW	Azolla Cultivation and its benefits	1	off	0	25	25	0	11	11
Agronomy	F/FW	Weed management in Cotton	1	off				0	6	
Agronomy	F/FW	Nutrient management in Cotton	1	off	0	25	25	0	6	6
Agronomy	F/FW	Benefits of micronutrients and PGRs in Arhar.	1	off	0	25	25	0	14	14
Agronomy	F/FW	Nutrient management in maize	1	off	0	25	25	0	08	08
Agronomy	F/FW	Weed management in Maize	1	off	0	25	25	0	07	07

Agronomy	F/FW	Planting technique in Sweetcorn.	1	off	0	25	25	0	11	11
Agronomy	F/FW	Establishment methods of Ragi.	1	off	0	25	25	0	05	05
Agronomy	F/FW	Nutrient management in ragi	1	off	0	25	25	0	02	02
Agronomy	F/FW	Weed management in Groundnut	1	off	0	25	25	0	12	12
Agronomy	F/FW	Nutrient management in Greengram	1	off	0	25	25	0	11	11
Agronomy	F/FW	Weed management in Greengram	1	off	0	25	25	0	12	12
Agronomy	F/FW	Weed management in Blackgram	1	off	0	25	25	0	8	8
Plant Protection	F/FW	Integrated management of BPH/WBPH in Kharif & Rabi Rice	1	Off	22	3	25	4	3	7
Plant Protection	F/FW	Integrated blast disease management in paddy	1	Off	25		25	6	0	6
Plant Protection	F/FW	Integrated fall army worm management in kharif maize	1	Off	25		25	5		5
Plant Protection	F/FW	Integrated thrips management in onion	1	Off	25		25	7		7
Plant Protection	F/FW	Integrated sucking pest management in cotton	1	Off	19	6	25			
Plant Protection	F/FW	IPM for management of pod borer complex in pigeonpea	1	Off	18	7	25	4		4
Plant Protection	F/FW	Bacterial wilting management in brinjal & tomato.	1	Off	25		25			
Plant Protection	F/FW	Integrated management of 1mite in Rabi chilli	1	Off	16	9	25	8		8
Plant Protection	F/FW	Integrated management of red spider mite in brinjal	1	Off	5	20	25		7	7
Plant Protection	F/FW	Integrated stem borer management in Rabi rice.	1	Off		25	25		12	12
Plant Protection	F/FW	Integrated fruit fly management in bitter guard.	1	Off	16	9	25	6	4	10
Plant Protection	F/FW	Integrated bacterial wilt management in greengram	1	Off	21	4	25	8	3	11
Plant Protection	F/FW	Bee box maintenance in summer and winter season.	1	Off	18	7	25	6	4	10
Hortiulture	F & FW	Nutrient and hormone application in watermelon	1	Off	-	25	25	-	25	25
Hortiulture	F & FW	Use of drip irrigation system in vegetable	1	Off	-	25	25	-	25	25
Hortiulture	F & FW	Hand pollination method in pumpkin	1	Off	6	19	25	6	19	25
Hortiulture	F & FW	Gerbera cultivation in polyhouse	1	Off	7	18	-	7	18	28
Hortiulture	F & FW	Cultural management in chilli	1	Off	1	24	25	-	-	-
Hortiulture	F & FW	Wilt management in Brinjal	1	Off	-	25	25	-	25	25

Hortiulture	F & FW	Nursery raising techniques for Kharif onion	1	Off	-	25	25	-	7	7
Hortiulture	F & FW	Nursery Management in off season vegetable	1	Off	22	3	25	1	1	2
Hortiulture	F & FW	Wilt management in solanaceous crops	1	Off	2	23	25	2	20	22
Hortiulture	F & FW	Single trellis system in bittergourd	1	Off	6	19	25	2	15	17
Hortiulture	F & FW	Integrated nutrient management in drumstick	1	Off	21	4	25	2	1	3
Hortiulture	F & FW	Weed management in onion	1	Off	-	25	25	-	25	25
Hortiulture	F & FW	Propagation method in drumstick	1	Off	-	25	25	-	-	-
Hortiulture	F & FW	IPM module for management of YMV in cowpea	1	Off	-	25	25	-	3	3
Animal Science	F/FW	Feeding management of cows and buffalo	1	off	11	14	25	7	8	15
Animal Science	F/FW	Management of FMD in CB cows	1	off	9	16	25	1	5	6
Animal Science	F/FW	Fertility management of CB cows.	1	off	12	13	25	12	13	25
Animal Science	F/FW	Feeding management of Kalahandi buffalo for sustainable milk production	1	off	9	16	25	3	10	13
Animal Science	F/FW	Fodder cultivation and silage making	1	off	22	3	25	12	1	13
Animal Science	F/FW	Hydroponics for green fodder production	1	off	10	15	25	10	15	25
Animal Science	F/FW	Feeding management in goat for better performance	1	off	10	15	25	10	15	25
Animal Science	F/FW	Management of worm infestation in goat	1	off	22	3	25	8	1	9
Animal Science	F/FW	Artificial insemination in goat.	1	off	13	12	25	13	12	25
Animal Science	F/FW	Heat and stress management in goats under semi intensive goat rearing system.	1	off	11	14	25	0	0	0
Animal Science	F/FW	Sustainable back yard poultry rearing.	1	off	11	14	25	0	4	4
Animal Science	F/FW	Feeding management in back yard poultry	1	off	2	23	25	0	6	6
Animal Science	F/FW	Brooding,vaccination management in fowl	1	off	25	0	25	18	0	18
Animal Science	F/FW	Management of duck at back yard for egg laying	1	off	1	24	25	0	12	12
Animal Science	F/FW	Disease management of duck in semi-intensive rearing system	1	off	25	0	25	25	0	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	
Vermicomposting	Production of organic inputs	Vermicomposting	2	10	5	15	Vermicomposting	03	06	0
Organic inputs	Production of organic inputs	Organic formulations, Panchagavya and Jeevamrit	2	12	3	15	Production of organic inputs	01	01	0
Groundnut	IDM	Integrated collar rot disease management in groundnut.	2	15		15	Crop production	One	12	0
Vegetable	IPM	Safe application of chemical pesticides in Rabi vegetable crop (Tomato, brinjal, chilli)	2	15		15	Vegetable production	One	15	0
Protected cultivation	Protected cultivation	Low cost community nursery by protected cultivation	1	9	6	15	Protected cultivation	01	01	0
Bullock	Production management	Semen sexing and its application	2 days	on	15	0	--	9	0	9
Goat	Disease management	Management PPR and goat pox diseases in goat	2 days	on	15	0	--	8	0	8
Integrated Farming system	IFS	Round the year income generation through pond based farming system	2	0	15	15	IFS	One	4	0
Mushroom	Mushroom Production	Small scale mushroom production unit	2	0	15	15	Mushroom unit	3	8	0

Sponsored Training Programmes

Sl. No	Title	Thematic area	Month	Duration (days)	Client PF/RY /EF	No. of courses	No. of Participants										Sponsoring Agency
							Male			Female			Total				
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1	Scientific beekeeping	Bee keeping	March	7	RY	1	19	6	0	0	0	0	0	0	0	25	ATARI, Kolkata & NBB Govt. of India

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											
KisanMela (OUAT Rabi Farmers Fair)	1	20	0	20	20	3	3	6	23	3	26
KisanGhosthi											
Exhibition											
Film Show	6	189	131	320	37	12	12	24	201	143	344
Method Demonstrations	10	141	24	165	31	4	6	10	145	30	175
Farmers Seminar											
Workshop											
Group meetings											
Lectures delivered as resource persons	12	312	68	380	47	6	6	12	318	74	392
Advisory Services	52	49500	44750	94250	30/20	500	250	750	50000	45000	95000
Scientific visit to farmers field	149	688	171	859	39	70	79	149	758	250	1008
Farmers visit to KVK	427	299	128	427	62	80	32	112	379	160	539
Diagnostic visits											
Exposure visits											
Ex-trainees Sammelan	2	49	1	50	22	10	2	12	59	3	62
Soil health Camp											
Animal Health Camp	1	33	17	50	35%	3	1	4	36	18	54

Agri mobile clinic											
Soil test campaigns											
Farm Science Club Conveners meet											
Self Help Group Conveners meetings											
Mahila Mandals Conveners meetings											
Celebration of important days (Poshan Maah)	1	0	90	90	60	4	5	9	4	95	99
Celebration of important days (Agriculture Education Day)	1	20	10	30	30	2	2	4	22	12	34
Celebration of important days (World Soil Day)	1	12	11	23	60	6	2	8	18	13	31
Celebration of important days (PM Samaan Nidhi Yojana)	1	0	39	39	40	3	2	5	3	41	44
Celebration of important days (International Women Day)	1	0	55	55	30	0	3	3	0	58	58
Celebration of important days (World Water Day)	1	43	7	50	32	3	3	6	46	10	56
Sankalp Se Siddhi											
Swatchta Hi Sewa											
Mahila Kisan Divas	1	0	74	74	42	3	4	7	3	78	91
59th Foundation day of OUAT	1	11	4	15	40	3	3	6	14	7	21
Total	668	51317	45580	96897	592	712	415	1127	52029	45995	98034

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	05
Radio talks	04
TV talks	--
Popular articles	--
Extension Literature	01
Other, if any	

3.5 a. Production and supply of Technological products

Village seed

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

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Paddy	MTU-1001	160 q	5,21,760	N/A	N/A	N/A	N/A
Paddy	Lalat	160 q (EXP)	5,21,760	N/A	N/A	N/A	N/A
Dhanicha	N/A	1.5	6000	N/A	N/A	N/A	N/A
Dhanicha	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grand Total		321.5	1049520				

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	Tetris, Megha	6000	15000	8	4	15	27
Cabbage	Kohinoor	2500	6250		5	8	13
Tomato	Laxmi	14290	35725	12	-	21	33
Brinjal	S.Shakti, S. Ajay, VNR-212	14876	37190		15	19	34
Chilli							
Onion	AFDR, NHRDF Red-3	63000	31500	28	15	12	55
Others							
Fruits							
Mango	Dasheri, Amrapali	150	6000	5	8	-	13
Guava							
Lime							

Papaya	Red Lady	360	9000	18	5	-	23
Banana							
Others	PKM-1	212	3180	-	12	6	18
Ornamental plants							
Medicinal and Aromatic							
Plantation							
Spices							
Turmeric							
Tuber							
Elephant yams							
Fodder crop saplings							
Forest Species							
Others, pl.specify	Dragon fruits	30	1200	-	-	5	5
Total		101418	145045	71	64	86	221

Production of Bio- product by KVKs

Bio -product	Name of the Bio - product	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers
Bio- fertilisers		**A&N Islands**				**Odisha**				**West bengal**				**Total**			
Non Symbiotic Azotobacter																	
Vermi compost							2425	36375	37								
Azolla																	
Earth worms																	
Compost																	
Worms																	
Blue green algae																	
NADEP																	
Azatobactor																	
Azospirillum																	
PSB																	

Bio -product	Name of the Bio - product	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers
Bio- fertilisers		**A&N Islands**				**Odisha**				**West bengal**				**Total**			
Rhizobium																	
Azolla culture																	
Total																	
Bio- pestisides																	
Neem extract																	
Tobacco extract																	
Trichoder-maviride																	
Panchagavya																	
Trichoderma																	
Total																	
Worms																	
Eudriluseuniae																	
Total																	
Earth worm																	
Eiseniafoetida																	
Earth worm																	
Total																	
Bio- fungicides																	
Trichoder maviridae																	
Total																	
others																	
Vermiculture																	
Mushroom-spawn	Spawn					1621	--	25936	66								
Cuelure																	
Mineral mixture																	
Cow dung(dry)																	
Cow dung(wet)																	
Total																	

Bio -product	Name of the Bio - product	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers	Quantity (no.)	Quantity (Kg.)	Value (Rs.)	Number of farmers
Bio- fertilisers		**A&N Islands**				**Odisha**				**West bengal**				**Total**			
Grand Total																	

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
Dairy animals							
Cows							
Buffaloes							
Calves							
Others (Pl. specify)							
Small ruminants							
Sheep							
Goat							
Other, please specify							
Poultry							
Broilers							
Layers							
Duals (broiler and layer)	Vanaraja, Chhabro, Kaveri, RIR, Kalinga Brown	5050	303485	22+19+35=76			
Japanese Quail							
Turkey							
Emu							
Ducks							
Others (Pl. specify)							
Piggery							
Piglet							
Hog							
Others (Pl. specify)							
Fisheries							

Indian carp				
Exotic carp				
Mixed carp				
Fish fingerlings				
Spawn	V.Volvaceae P.Sajarkaju P.Florida	1621	25936	14+22+15=51
Others (Mushroom)	V.Volvaceae P.Sajarkaju P.Florida	107.6kg	12795	18+33+41=92
Grand Total				

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

i) Name of Seed Hub Centre:

Name of Nodal Officer :	Dr Amitabh Panda
Address :	Krishi Vigyan Kendra At- Arkabahalipada Agriculture Farm, Khariar Road, Bhawanipatna-766001
e-mail :	Kvkkalahandi.ouat@gmail.com
Phone No. : Mobile :	9437297307 6372568845

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	Pigeonpea	PRG 176	600	94	245	CS
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	50	6.75482	33.24518	
2017-18	-	26.40666	34.65428	
2018-19	-	16.95769	45.84255	
2019-20	-	7.39663	50.36451	

iv) Infrastructure Development

Item	Progress
Seed processing unit	Seed processing plant and storage godown work has been completed and processing work started from the year 2019-20 onwards.
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	Krushi Kalika	Senior Scientist & Head and scientists	02	200
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature				
Technical reports	SAC 2020-21 Annual Report 2020-21 Annual Action Plan 2020-21	Senior Scientist & Head	03	10 10 10
Electronic Publication (CD/DVD etc)				
TOTAL			05	230

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.					
2.					
3.					
4.					
5.					
6.					
7.					

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

Name of farmer	Gopabandhu Sahu
Address	Village-Matia, Grampanchayat-Matia, Block-Bhawanipatna
Contact details (Phone, mobile, email Id)	91-6370147767
Landholding (in ha.)	8.0 ha (leased in 1.6 ha) Cotton-4 ha (Kharif) Paddy-3 ha(Kharif) Pulses-1ha (Rabi) Onion-2 ha (Rabi) Vegetables- 1 ha (All season)
Name and description of the farm/ enterprise	The young farmer of 34 years old has a total of 8 ha of cultivable land is the primary source of livelihood. In irrigated patch of land vegetables is the main crop and in rainfed area Cotton and paddy is grown. This young farmer is very enthusiastic to practice innovative agricultural practices and cultivates the produce considering consumers demand and prevailing markets price which helps him to incur profit from his agricultural practices. Learning the techniques from various capacity building programmes of KVK and adopting those practices at right time grant him a positive result in the field in terms of production and income. Demonstration on performance of Onion (Cv.Bhima shakti & Bhima Super), herbicide application (Pre & post emergence)for weed control, FLD on Tomato (Cv. Swarna Sampad) , IPM management of vegetable crops, micronutrient application, Pest & disease management in Paddy, sucking pest infestation in cotton and most importantly use of hi-tech horticulture, drip system of irrigation(per drop more crop), use of water soluble nutrients, off seasonal vegetables cultivation and production of high value low volume exotic crops etc was promoted by KVK through various extension programmes.

Economic impact	Previously he could able to earn hardly around 5,00,000 per annum but now with his strong determination and adopting the agricultural innovative practice, technical knowledge and improved methods and processes he could able to get a net profit of Rs.7, 20,000/- (Rupees Seven lakh twenty thousand) only
Social impact	Witnessing the profit gained from the crops (specific-vegetable) others educated youth also trying to follow his footsteps. The village is known in the district for vegetable cultivation and specifically for onion cultivation. To promote onion farming, farmers are supported with low cost onion storage structure. by district horticulture Department
Environmental impact	--
Horizontal/ Vertical spread	His farm land is been visited by farmers of in and out of the district and been renowned as technical expert in his village in terms of veg.farming.

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

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

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

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Paddy	Dry neem leaf of 5 kg is mixed in 2qlt of Grain(cereal and pulses) and kept in a air tight bin/ container (made out of hey/ loose paddy straw) stored for 6-8 month to protect the seed from pest.	Seed storage

b. Give details of organic farming practiced by the farmer

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

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

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed
1.	Group discussion	To be acquaint with the agricultural scenario of the village
2.	Brain storming session	To highlight the emerging issue of the village relating to agriculture and allied sector
3.	Focused group discussion	To address the specific problem encountered by the farmers and find out possible solutions
4.	Checklist	To find out the present condition or progress In terms of agricultural development
5.	Questionnaire	To find out the baseline data of a village
6.	Survey method	To find out the baseline data of a village
7.	Participatory rural appraisal (PRA)	Resource inventory
8.	Problem Tree	To identify the problems and various factor associated with
9.	Root cause Analysis	To find out the grounds of the constrains and possible solution to solve it.

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

Sl. No	Name of the Equipment	Qty.
1.	Nitrogen analyser	01
2.	Spectrophotometer	01
3.	Ph meter	01
4.	Conductivity Meter	01
5.	Hot air oven	01
6.	Chemical balance	01
7.	Mechanical shaker	01
8.	Water Bath	01
9.	Incubator	01
10.	Mridaparikshak kit	01
11.	Weighing Balance	01

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			
69	-	69	280	24	-

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	30	-	-	50	50

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

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

3.13. Technology week celebration

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

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

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
31.12.2020	Prof.Pawan Agrawal Vice Chancellor, OUAT, BBSR	To inaugurate the seed processing plant under Pulse Seed Hub programme
31.12.2020	Prof. Gadanayak Dean, Extension Education	To inaugurate the seed processing plant under Pulse Seed Hub programme

4. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Mushroom cultivation	20	55	Rs.45000 per unit	Rs. 1,20,000 per unit
Poultry rearing	20	40	Rs.50000 per unit	Rs. 2,00,000 per unit
Pigeonpea seed production	30	75	Rs. 28000per ha	Rs. 46000 per ha
IPM in Rice	30	65	Rs. 22500per ha	Rs. 42000 per ha
IDM in Rice	21	52	Rs. 22500per ha	Rs. 42000 per ha
IPM in Pigeonpea	50	60	Rs. 32000per ha	Rs. 65000 per ha
Sucking pest management in Cotton	50	55	Rs. 45000per ha	Rs. 75000 per ha
Thrips and Mite management in Chilly	20	42	Rs. 80000per ha	Rs. 115000 per ha
Paclobutrazole application in mango	7	18	Rs.91500 per ha	Rs.176500 per ha
Ethrel application in watermelon	13	20	Rs. 55100 per ha	Rs. 71600 per ha
Cotton oil cake as feed supplement to increase milk production in CB cows	15	56%	4700/- per cow	7600/- per cow
Demonstration of probiotics in backyard poultry	32	45%	4450/- per 10 birds	6800/- per 10 birds
Demonstration on portable brooder to check early chick mortality	15	24%	Rs. 1985/- per 10 birds	Rs. 3850/- per 10 birds

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
Pigeon pea seed production	50 ha
Hybrid maize production	500ha
Popularisation of single trellis system in Bittergourd (Trellis system with GI wire and plastic twine)	20% horizontal spread in the Kalahandi district
Demonstration of Kadaknath poultry bird	10560 nos. kadakntah poultry birds reared across district
Demonstration of low cost silage	50 Acres of land was covered with maize cultivation that used for silage preparation.

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.	Pod borer management in pigeonpea	Application of Azadirachtin 0.15%@ 1.5 Lit./ ha + Emamectin Benzoate 5SG @ 200gm/ha at 50% flowering and second 15-20 days after 1ST spraying gives good result	No of larvae/plant- 01 Pod borer incidence is reduced and avg. yield is 16q/ha
2.	Management of major insect pest of rice	Application of Flubendiamide 240 SC + Thiacloprid 240 SC (Belt Expert) @ 300 ml/ha twice i.e. at Tillering & P.I. stage for management of rice stem borer, gall midge, leaf-folder and BPH	Incidence of silver shoot ad dead heart is reduced upto 90%
3.	Application of herbicide for weed management in onion	Pre emergence application of pendimethalin 750 g/ha followed by application of Quizalophop-p-ethyl 50 g/ha at 20 DAS in onion crops.	pre emergence application of Pendimethalin followed by quizalophop-ethyl is less no. of weed Population count 1.2 in compare to farmers practices 8.5 and to get higher yield 297.2q/ha.
4.	Portable cotton picker	The output/ day is 24.54 kg while the manual picking is 22.04kg which is 11.4% more than the traditional method of picking	portable cotton picker is light weighted machine and easy to operate (hand operated machine, has a pair of chain with small sharp edged teeth. It is operated by a light weight 12V battery)
5.	Demonstration of low cost silage	Farmers are fed their cows with silage as feed supplement which reduces the cost of of production.	30 acre of barren land is now diversified to maize cultivation which ultimately used for silage production.
6.	Demonstration of kadaknath poultry birds	Farmers shows interest to rear kadaknath chicken at their back yard in compare to deshi chicken	The income level of farmers improved by rearing kadaknath poultry bird. On an average 10560 nos. of poultry bird are reared in the district.

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	Poultry rearing and brooding farm
Name & complete address of the entrepreneur	Mr. Godabarish Patra, Vill. Temra, Block-Koksara
Role of KVK with quantitative data support:	KVK scientist imparted training regarding brooding and rearing of poultry to the entrepreneur. KVK also supplied different types of poultry birds for his entrepreneurship. He was trained to a skill trainer in poultry sector by KVK scientists.
Timeline of the entrepreneurship development	1.5 years
Technical Components of the Enterprise	Poultry brooding and rearing. Poultry chicks were brooded up to three weeks and subsequently marketing
Status of entrepreneur before and after the enterprise	Before enterprise, the annual income was Rs.250000/- and after the annual income rise up to Rs.525000/-. After enterprise gradually he developed a training centre for poultry farming. He is supplying 15 days chicks to the various part of the district.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	The day old chicks were procured from CPDO and other private farm in the state. No labour constraints were felt in the poultry farm because very limited numbers of labour is required to manage the farm. Marketing is a no issue because there is heavy demand for poultry chicks in the district. Annually he is earning on an average Rs.525000/-. The enterprise is sustainable and viable.
Horizontal spread of enterprise	27%

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Deputy Director of Agriculture, Kalahandi	Diagnostic field visit, e-pest surveillance, technological backstopping through training and demonstration. Member of PKVY and Governing Board member of ATMA
Agriculture Technology Management Agency (ATMA)	Organizing farmer- scientist interaction, Diagnostic field visit and extension activities (Akhaya Trutiya, Environment day Celebration, World Food Day, Women in Agriculture Day), awareness campaign (BPH and seed treatment) are conducted in a collaborative mode.
National Horticulture Mission	Monitoring and verification of quality planting material (QPM) and training cum demonstration on hi-tech horticulture.
NABARD	Monitoring of WADI activities
Syngenta Foundation, India & KARRTABYA NGO	Delivering lecture as resource person in various sponsored training programme and monitoring the activities of Hybrid Paddy Seed production and capacity building of grass root Extension worker.
Leading NGOs of the district	Capacity building of the farmers through training programme and demonstrations are conducted in a collaborative mode. Technical guidance on crop & horticulture production system, organic farming,Millet production, sustainable livelihood support in rural areas

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

a) Programmes for infrastructure development

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

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

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

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area(Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1	Polyhouse	2011	300	-	Vegetable seedling	101418	32886	145045	Unit is functional
2	vermicompost	2011	--	--	Vermicompost	2425 kg	14400	36375	Unit is functional
3	Poultry unit	2012	250	(vanaraja, chhabro, RIR, Kalinga brown)	Chicks (21days old)	5050	141,000/-	303485	Unit is functional
4	Mushroom spawn	2012	31.72	V.Volvaceae P.Sajarkaju P.Florida	Spawn	1161	12000	25776	Unit is functional
5	Mushroom production	2012	35.0	.Volvaceae P.Sajarkaju P.Florida	Mushroom	107.6kg	6000	12795	Unit is functional
Total							206286	523476	

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy	22.06.2020	24.11.2020	5.0	Lalat	FS	160q (EXP)	1,75,000	5,21,760	Processing awaited
Paddy	22.07.2020	01.12.2020	5.0	MTU-1001	FS	160q	1,75,000	5,21,760	Seed testing report awaited
Dhanicha	01.08.2020	12.11.2020	2.0	N/A	TL	1.5q	2000	6000	To be used as green manuring

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	

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Poultry birds	Dual purpose bird (vanaraja, chhabro, RIR, Kalinga brown)	21 days and adult poultry birds	5050	141,000/-	303485	

6.5 Utilization of hostel facilities Yes

Accommodation available (No. of beds)-25

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

(For whole of the year)

6.6 Utilization of staff quarters

Whether staff quarters has been completed: Yes

No. of staff quarters: 02

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
Saving Account	State Bank of India	Main Branch, Bhawanipatna	11083460368
Saving Account	State Bank of India	Main Branch, Bhawanipatna	39488837909
Saving Account	State Bank of India	Main Branch, Bhawanipatna	31944687691

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

Item	Released by ICAR		Expenditure		Unspent balance as on -
	Kharif	Rabi	Kharif	Rabi	

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2013
	Kharif	Rabi	Kharif	Rabi	
		0.9		0.58062	0.31938

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

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	8400000	8400000	8400000
2	Traveling allowances	100000	100000	100000
3	Contingencies	1400000	1400000	1320000
A				
B				
C				
D				
E				
F				
G				

Sl. No.	Particulars	Sanctioned	Released	Expenditure
H				
I				
J	Swachhta Expenditure			
TOTAL (A)		9900000	9900000	9820000
B. Non-Recurring Contingencies				
1				
2				
3				
4				
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		9900000	9900000	9820000

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
2015-16				
2016-17				
2017-18	Nil	4.52840	5.77225	--
2018-19	1.75734	2.80378	5.40260	--
2019-20	1.525948	6.66429	6.90000	--

7.6. (i) Number of SHGs formed by KVKs- Nil
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities- 52
(iii) Details of marketing channels created for the SHGs- Marketing of the bulk produce is mainly done by ORMAS and leading NGOs also create avenues for disposal of their produce in nearby district and local vender.

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
World soil Day	01	Rabi	With line department	--	
Mushroom training of Extension professional	01	Rabi	--	--	With both

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
Blast	Rice	08.09.20	45000	21	27000
Wilting	Cotton	22.08.20	15000	18	9000
Fusarium wilting	Pigeonpea	10.09.20	5000	28	4000
Rust, powdery mildew	Blackgram	19.11.20	17000	26	12000
Powdery mildew, YMV	Greengram	14.12.20	16000	30	12000
Rust, Tikka, leaf spot, stem rot	Groundnut	16.08.20	5000	20	3000

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)
FMD	Cattle, Buffalo	No outbreak	26%	450	
PPR	Goat	No outbreak	42%	380	
HS	Cattle	No outbreak	23%	420	
BQ	Cattle	No outbreak	33%	320	

9.1. Nehru Yuva Kendra (NYK) Training

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

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

Type of message	No. of messages	No. of farmers covered
Crop	5	95000
Livestock	10	95000
Fishery	-	-
Weather	10	95000

Marketing	2	95000
Awareness	10	95000
Training information	5	95000
Other	10	95000
Total	52	95000

9.3. *KVK* Portal and Mobile App

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

9.4. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken

b. Details of Swachhta activities with expenditure

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

6. Used water for agriculture/ horticulture application		
7. Swachhta Awareness at local level		
8. Swachhta Workshops		
9. Swachhta Pledge		
10. Display and Banner		
11. Foster healthy competition		
12. Involvement of print and electronic media		
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)		
14.No of Staff members involved in the activities		
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
Total		

9.5. Observation of National Science day

Date of Observation	Activities undertaken

9.6. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants

9.7. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used

Give good quality 1-2 photograph(s)

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

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

9.9. Details of Swachhta Hi Sewa programme organized

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

9.10. Details of Mahila Kisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1.	Essay writing Debate competition Drawing competition	06	50	--	--

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.	Sri. Bikash Pradhan	Village-Sikerguda, Grampanchayat-Chancher Block-Bhawanipatna 9438402775	Integrated Farming system
2.	Sri. Mahadev Behera	Village-Bhainri, Grampanchayat-Mingur Block-Kalampur 9078640750	Poultry farming
3.	Sri, Indu Bhusan Swain	Village-Boria , Grampanchayat-Boria Block-Kesinga 9938090828	Pigeon pea seed production and Banana cultivation
4.	Aditya Kumar Sahoo	Village-Dhaner , Grampanchayat-Charbahal Block-Junagarh 9853891533	Hi-tech horticulture
5.	Manoj Patra	Village-Baner , Grampanchayat-Baner Block-Jaipatna 8637292187	Mushroom and spawn production unit

9.12. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	2017-18	5250	KVK RF
2.	2018-19	13090	KVK RF
3.	2019-20	36920	KVK RF

9.13. Resource Generation:

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

9.14. Performance of Automatic Weather Station in KVK

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

9.15. Contingent crop planning

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

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

a) Year:
b) Introduction / General Information:

	Title	Objective	Treatment details	Date of sowing	Replication	Result with photographs

Experiment 1						
Experiment 2						
Experiment 3						
…						
..						
Others (If any)						

11. Details of TSP

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

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

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

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

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

(ii) Table:

Sl. No.	***Description***	***Unit***	***Achievements***
1	Number of Technologies Identified after Assessment	Number	
2	Upgraded Skills and Knowledge of farmers	Number	
3	Oriented extension personnel in frontier areas of agricultural technology	Number	
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	
2	Extension personnel trained by KVKs	Number	
3	On-farm trials conducted by KVKs	Number	
4	Frontline demonstrations conducted by KVKs	Number	
5	Quantity of seeds produced	Quintal	
6	Planting materials Produced	Number	
7	Livestock strains and fingerlings produced	Number	
8	Soil & water samples tested	Number	

13**.** Information pertaining to ARYA Project

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	
Renovation of community pond	1	1	1.5	12	6	19	7	22	14	49	27	76	
Construction of jalkund	1	1	0.5	6	1	8	4	16	7	30	12	42	

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	
Rice-Swarna shreeya	05	3	2	4	0	3	0	10	2	12	
Brinjal (VNR-212)	4.8	12	5	8	5	10	4	30	14	44	
Tomato (Utkal kumari)	5.0	8	9	5	4	11	5	24	18	42	

Chilli (Agnirekha)	4.3	5	3	4	2	9	7	18	12	30	
Black gram (PU-31)	6.6	6	4	12	5	13	9	31	18	49	
Arhar (PRG-176)	13.8	4	3	8	5	7	5	19	13	32	

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	
Vaccination camp against FMD Cattle & PPR against goat	340 nos.	340 nos.		12	5	8	4	10	6	30	15	45	
Vaccination for PPR in goat and Ranikhet in Poultry.	350	350		6	2	12	4	7	3	25	9	37	
Deworming	250	250		3	5	11	3	7	5	21	13	34	
Mineral mixture	240 nos.	240 nos.		4	2	7	5	11	9	22	16	38	

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
Crop Management	3	3	23	7	25	5	32	15	75	90
Livestock Management	3	4	22	8	32	8	16	20	70	90

Natural resource management	1	0	0	2	8	0	20			30
Pest and disease management	3	5	22	3	19	2	39	10	80	90

Extension activities

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

Detailed report should be provided in the circulated Performa

15. Awards/Recognition received by the KVK

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

Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
1.	Progressive farmer Award at OUAT Foundation day	Aditya Kumar Sahoo Dhaner, Junagarh	2020	OUAT, BBSR	--	Hi-tech horticulture

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

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

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

18. Integrated Farming System (IFS)

Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
1.	Fish rearing	0.4	6.0	18000	90000	15	30
2.	Pigeonpea cultivation in bund	0.2	3.0	12000	23400	22	35

19.Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1.	Application of combine insecticides for management of major insect pest of rice	• Application of Flubendiamide240 SC + Thiacloprid 240 SC (Belt Expert) @ 300 ml/ha twice i.e. at Tillering & P.I. stage for management of rice stem borer, gall midge, leaf-folder and BPH • Application of Ethiprole 40% + Imidacloprid 40% (Glamore) @ 125 g/ha twice i.e. at Tillering & P.I. stage for management of rice stem borer, gall midge, leaf-folder and BPH	50195	25	
2.	Eco-friendly management of pod borer complex in pigeonpea	• Application of Azadirachtin 0.15%@ 1.5 Lit./ ha + Spinosad 45 SC @ 200 ml / ha at 50% flowering and second 15-20 days after 1ST spraying. • Application of Azadirachtin 0.15%@ 1.5 Lit./ ha + Emamectin Benzoate 5 SG @ 200 gm / ha at 50% flowering and second 15-20 days after 1ST spraying.	89800	45	
3.	Demonstration on application of herbicide for weed management in onion	• Pendimethalin is an herbicide used in pre emergence and post emergence applications to control annual grasses and certain broadleaf weeds. • Quizalofop-P-ethyl is a selective, post emergence phenoxy herbicide. It is used	Rs. 151560/-	40	

		to control annual and perennial grass weeds. • The compound is absorbed from the leaf surface and is moved throughout the plant. • It accumulates in the active growing regions of stems and roots.			
4.	Demonstration on ethrel application in watermelon for enhanced fruit setting	• Nursery Preparation for watermelon with polythene bags of 200 gauge, 10cm diameter and 15 cm height. FYM 15-20 t/ha, NPK dose @ 80:50:50 Kg/ha. • Spray Ethrel 2.5 ml/10 lit of water 4 times at weekly intervals commencing from 15 days after sowing.	Rs. 71600/-	50	
5.	Assessment of suitable Brinjal variety for Kalahandi district	• Cultivation of Brinjal var. Swarna Shakti Fruits are oblong, medium length (15-17 cm), weight (250-300 g) and attractive shiny light purple colour, resistant to phomopsis blight and bacterial wilt, seed rate- 150-200g/ha, maturity- 55-65 DAP, Average yield- 70-75 t/ha • Cultivation of Brinjal var. Swarna Ajay Fruits are oblong, medium length (10-12 cm), weight (100-120 g) and attractive light purple colour, resistant to phomopsis blight and bacterial wilt, seed rate- 150-200g/ha, maturity- 50-55 DAP, Average yield- 70-75 t/ha	Rs. 258240/- Rs. 27070/-	30	
6.	Assessment of different plant growth regulator for crop regulation in mango	Application of paclobutrazol@ 0.25g a.i./m^2 canopy spread • Application of ethephon 5-8 sprays @ 200ppm fortnightly interval	Rs. 176500/- Rs. 145000/-	30	
7.	Demonstration on Kadaknath poultry bird	Rearing of Kadaknath in back yard with 30-50 gm of feed per bird, vaccination against RD on 7th day, 28 day, IBD on	Rs.3890/- per 10 bird per annum	42	

		14th day.			
8.	Demonstration on low cost silage making for feeding cows during lean period	Maize fodder chaffed to approximately 2-3 cm size, added with 5% molasses, put inside a plastic bag in airtight manner be maintained for 8 week and feed the silage @ 25% to total feed	Rs. 4500/- per cow per annum	36	
9.	On farm testing on different Oil Cakes as Feed Supplement in Cross bred Cow	• Feeding of cow @ 2.5 kg of concentrate feed + with 1 kg cotton oil cake + 10 kg green fodder per day • Feeding of cow @ 2.5 kg of concentrate feed + with 1 kg groundnut oil cake+ 10 kg green fodder per day	Rs. 6800/- per cow per annum	25	

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

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

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

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

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

Year	Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants	Whether uploaded to SDMS Portal (Y/N)	Fund utilized for the training (Rs.)
2016-17							

2017-18							
2018-19							
2019-20	Assistant Gardener	Tulasi Majhi	20.02.2020	04.03.2020	20	No	55850
2019-20	Vermicompost producer	Tapan Kumar Das	28.01.20	22.03.20	20	Y	179400

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	
Beekeeping	Scientific beekeeping	56	0	0	0	0	25	0	25	0	25	

23. Information on NARI Project (if applicable)

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

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

Krishi Kalyan Abhiyan- I and II

A. Training

Name of programme	***No. of programmes***	***No. of farmers benefitted***									***No. of officials attended the programme***
		SC		**ST**		**Others**		**Total**			
		M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**	

KKA-I	**26**	**210**	**185**	**242**	**215**	**338**	**110**	**790**	**510**	**1300**	**82**
KKA-II	**26**	**234**	**147**	**221**	**258**	**298**	**142**	**753**	**547**	**1300**	**88**

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	*Distribution of critical inputs*	*12280*	*12500*			*1032*	*254*	*933*	*125*	*2879*	*286*	*4844*	*656*	*5500*	*321*
KKA-II	*Distribution of critical inputs*	*50*	*4500*			*268*	*55*	*240*	*65*	*587*	*35*	*1095*	*155*	*1250*	*288*

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	*Vaccination and deworming*	*5540*	*6005*			*187*	*0*	*124*	*0*	*266*	*0*	*577*	*0*	*577*	*120*

KKA-II	***Vaccination and deworming***	***6550***	***2810***			***217***	***0***	***214***	***0***	***187***	***0***	***618***	***0***	***618***	***120***

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	576	0	489	0	681	0	1746	0	1746	52
	NADEP Pit established	120	0	188	0	130	0	440	0	440	87
	Farm implements distributed	58	0	42	0	114	0	214	0	214	38
	Others, if any										
KKA-II	Soil Health Card Distributed	274	0	228	0	470	0	1032	0	1032	57
	NADEP Pit established										
	Farm implements distributed	57	0	32	0	51	0	140	0	140	30
	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	***267***	***30***	***0***	***21***	***0***	***38***	***0***	***89***	***0***	***89***	

25. Nutri-garden

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

Please provide one or two good quality photographs

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

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

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

28. SC SP quarter-wise

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

Physical Output 2020-2021

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

Sl. No.	Indicator/Activities	Unit of Indicator	Quarterly Breakup (Target)	Targets Achieved	No. of Beneficiaries	Outcome
			Q-2 Q-3 Q-4	Q-2 Q-3 Q-4	Q-2 Q-3 Q-4	
6	**Planting materials Produced**	**Number**	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	
7	**Livestock strains and fingerlings produced**	**Number**	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	
8	**Soil & water samples tested**	**Number**	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	Q-1 Q-2 Q-3 Q-4	