

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	10th	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	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building	Completed	Completed	Completed	Completed	Completed	5929	Used	ICAR
2.	Farmers Hostel	Completed	Completed	Completed	Completed	Completed	756.25	Used	ICAR
3.	Staff Quarters (6)	Completed (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	Completed	Completed	Completed	Completed	Completed	210	Used	RKVY
8.	Farm godown	Completed	Completed	Completed	Completed	Completed		Used	ICAR
9.	Dairy unit	--							
10.	Poultry unit	Completed	Completed	Completed	Completed	Completed	250	used	RKVY
11.	Goatary unit	ongoing							
12.	Mushroom Lab	Completed	Completed	Completed	Completed	Completed	31.72	Used	RKVY
13.	Mushroom production unit	Completed	Completed	Completed	Completed	Completed	35.0	Used	RKVY
14.	Shade house						92.4		
15.	Soil test Lab	Completed	Completed	Completed	Completed	Completed	40.0	Used	ICAR
16.	Portable carp hatchery	Completed	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	7,00,000	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	7,00,000	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.	Salepali	M.rampur	Salepali	Paddy, Maize, Cauliflower, Groundnut Greengram Brinjal watermelon	<ul style="list-style-type: none"> • 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 	<p>Integrated pest management</p> <p>Integrated disease management</p> <p>Crop management practices</p> <p>Micronutrient management practices</p> <p>Use of organic products</p>
3.	Charbahal	Junagarh	Dhaner	Paddy Banana Vegetables Animal Husbandry	<ul style="list-style-type: none"> • 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 	<p>Integrated disease pest management</p> <p>Nutrient management</p> <p>Processing and preservation</p> <p>Proper application of insecticide</p> <p>Market led agriculture</p> <p>Off season farming</p> <p>Feed and health management</p> <p>Vaccination and health management</p>

4.	Majhiguda	Koksara	Majhiguda	Paddy Pigeonpea Maize Blackgram Animal husbandry	<ul style="list-style-type: none"> • 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 	<p>Use of HYV and pest management practices</p> <p>Pest management</p> <p>Crop management</p> <p>Disease management</p> <p>Feeding management</p> <p>Rearing of semi intensive poultry chicks</p>
5.	Bindhani	Karlamunda	Bindhani	Paddy Vegetables Pulses Fruits Animal husbandry	<ul style="list-style-type: none"> • 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 	<p>Weed management</p> <p>Pest and disease management in vegetable crops</p> <p>Production of organic inputs and organic farming</p> <p>Low cost feed management</p> <p>Feed and health management</p>

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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Demonstration on high yielding Pointed gourd variety Arka Neelachal Kriti • Demonstration on Management of Onion Thrips • Demonstration on feeding management in buffalo

		<ul style="list-style-type: none">• Training on Planting method of Pointed gourd \• Nursery management in off season vegetable• Weed management in Blackgram
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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 + Eamectin Benzoate 5SG @ 200gm/ha at 50% flowering and second 15-20 days after 1 ST 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 1 ST 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 + Eamectin Benzoate 5SG @ 200gm/ha at 50% flowering and second 15-20 days after 1 ST 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 at 15-20 days after 1 ST 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 + Eamectin 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 of Cartaphydrochloride 2gm/lit, Buprofenzin 1.5ml/L Thiomethoxam @ 1gm/it TO-2 : 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 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-green gram 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 developed 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 of Cartaphydrochloride 2gm/lit, Buprofenzin 1.5ml/L Thiomethoxam @ 1gm/it

TO-2 : 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

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

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OFT-4

1.	Title of On farm Trial	Assessment of suitable Brinjal variety for Kalahandi district
2.	Problem diagnosed	Low return due to 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 trial 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 to 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./m² 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	1 st week of January	112	76500	168000	91500	2.1
TO2	07	42.5	2 nd week of December	185	101000	277500	176500	2.7
TO3	07	31.8	2 nd 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	T01: 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:

T01: 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%						
T01	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 management
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 Multienzyme 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 probiotics 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 (2 nd Fortnight of September) TO-3 Delaying of planting time by 30 days (2 nd 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. <i>Application of Metarhizium anisopliae @ 5gm/l of water at 15-25 days after sowing</i> Application of Enamectin benzoate @ 0.4 gm/l of water to manage the 2 nd & 3 rd 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 <i>Trichogramma chilonis</i> @ 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	1 0	0	1 0	
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	1 0	0	1 0	
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	1 3	0	1 3	
6.	Cotton	Harvest Technology	Portable cotton picker	--	--	0	0	4	0	9	0	1 3	0	1 3	

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 ₂ O ₅	K ₂ O					
Pigeon pea	Kharif	Rainfed	Sandyloam	169.5	45.58	163.0	Fallow	1 st week of July	2 nd week of November	744.6	60
Ragi	Kharif	Rainfed	Red soil	196.5	78.65	109.6	Fallow	1 st week of July	2 nd week of November	1048	71
Rice	Kharif	Irrigated	Black cotton	204	48	424	Greengram	3 rd week of July	1 st week of December	744.6	60
Maize	Kharif	Rainfed	Sandy loom	169	47	210	Fallow	4 th week of June	1 st week of November	1048	71
Onion	Rabi	Irrigated	Black soil	209	54	328	Rice	2 nd week of November	4 th week of February	3.8	1
Rice	Summer	Irrigated	Clay loom	202	87	220	Rice	2 nd week of February	continuing	9.2	2
Bittergourd	Kharif	Rainfed	clay loamy to black soil	369.5	34	238	Brinjal	3 rd week of June	4 th week of September	911.2	49
Onion	Rabi	Irrigated	Sandy loam to black soil	404.84	29	367	Paddy	2 nd week of December	1 st week of March	9.2	2
Watermelon	Rabi	Irrigated	Sandy loam	423.4	40	362	Paddy	2 nd week of January	4 th week of april	9.2	2
Ragi	Kharif	Rainfed	Red soil	194	41	410	Fallow	1 st week of July	2 nd week of November	1048	71
Cotton	Kharif	Rainfed	Black soil	197.5	48.58	133.0	Cotton	2 nd week of june	2 nd 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

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

		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
Buffalo																	
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl.specify)																	
Total																	

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

** BCR= GROSS RETURN/GROSS COST

Fisheries

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

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

** BCR= GROSS RETURN/GROSS COST

Other enterprises

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

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

** BCR= GROSS RETURN/GROSS COST

Women empowerment

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

[illegible]

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)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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

[illegible]

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

[illegible]

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

i. Farmers & Farm Women

[illegible]

[illegible]

[illegible]

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

[illegible]

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
Horticulture	F & FW	Nutrient and hormone application in watermelon	1	Off	-	25	25	-	25	25
Horticulture	F & FW	Use of drip irrigation system in vegetable	1	Off	-	25	25	-	25	25
Horticulture	F & FW	Hand pollination method in pumpkin	1	Off	6	19	25	6	19	25
Horticulture	F & FW	Gerbera cultivation in polyhouse	1	Off	7	18	-	7	18	28
Horticulture	F & FW	Cultural management in chilli	1	Off	1	24	25	-	-	-
Horticulture	F & FW	Wilt management in Brinjal	1	Off	-	25	25	-	25	25

Horticulture	F & FW	Nursery raising techniques for Kharif onion	1	Off	-	25	25	-	7	7
Horticulture	F & FW	Nursery Management in off season vegetable	1	Off	22	3	25	1	1	2
Horticulture	F & FW	Wilt management in solanaceous crops	1	Off	2	23	25	2	20	22
Horticulture	F & FW	Single trellis system in bittergourd	1	Off	6	19	25	2	15	17
Horticulture	F & FW	Integrated nutrient management in drumstick	1	Off	21	4	25	2	1	3
Horticulture	F & FW	Weed management in onion	1	Off	-	25	25	-	25	25
Horticulture	F & FW	Propagation method in drumstick	1	Off	-	25	25	-	-	-
Horticulture	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	No. of courses	No. of Participants										Sponsoring Agency
					PF/RY /EF		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
KisanGhoshthi											
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
59 th 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							

[illegible]

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 and 2019-20)	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	Krusha 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. RAWF/ 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 1 ST 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 and 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 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 1 st 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
<i>H</i>				
<i>I</i>				
<i>J</i>	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 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st 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:

<i>Sl. No.</i>	<i>Description</i>	<i>Unit</i>	<i>Achievements</i>
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

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

12. Schedule caste Output & Outcome achievements

<i>Sl. No.</i>	<i>Indicator/Activities</i>	<i>Unit of Indicator</i>	<i>Achievements</i>
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

14.

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	
P							

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	1 2	30	
Black gram (PU-31)	6.6	6	4	12	5	13	9	31	1 8	49	
Arhar (PRG-176)	13.8	4	3	8	5	7	5	19	1 3	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	<ul style="list-style-type: none"> • 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 • 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	<ul style="list-style-type: none"> • 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 + Enamectin 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	<ul style="list-style-type: none"> • 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	

		<p>to control annual and perennial grass weeds.</p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 	<p>Rs. 258240/-</p> <p>Rs. 27070/-</p>	30	
6.	Assessment of different plant growth regulator for crop regulation in mango	<p>Application of paclobutrazol@ 0.25g a.i./m² canopy spread</p> <ul style="list-style-type: none"> • Application of ethephon 5-8 sprays @ 200ppm fortnightly interval 	<p>Rs. 176500/-</p> <p>Rs. 145000/-</p>	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	<ul style="list-style-type: none"> 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							

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
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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										

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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	