PROFORMA FOR ANNUAL REPORT2017-18 (April 2017to March 2018)

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	
KVK, Kalahandi Arkabahalipada Farm, Khariar Road, Bhawanipatna	8763019752	--	kvkkalahandi.ouat@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
OUAT, Bhubaneswar	0674-2397700	0674-2397700	deanextensionouat@yahoo.com deanextension_ouat@rediffmail.com

1.3. Name of the Programme Coordinator with phone & mobile No.

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

1.4. Year of sanction of KVK:1994

1.5. Staff Position (as on 1st April, 2017)

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	Programme Coordinator	Dr. Amitabh Panda	Senior scientist & Head	Horticulture	Rs. 22000/- AGP 8000/- Rs. 24850/-	09.01.2006	Permanent	OT
2	Subject Matter Specialist	Mr. Tapan Kumar Das Scientist	Scientist (Plant Protection)	Entomology	Rs15600-39100/- AGP6000/- Rs.20590/-	26.04.2010	Permanent	OT
3	Subject Matter Specialist	Dr. Lata Malik	Scientist (Soil Science)	Soil science	Rs15600-39100/- AGP6000/- Rs.21390/-	26.10.2009	Permanent	SC
4	Subject Matter Specialist	Miss Madhumita Jena	Scientist (Agril. Extension)	Agril. Extension	Rs15600-39100/- AGP6000/- Rs.20590/-	08.04.2010	Permanent	OT
5	Subject Matter Specialist	Miss Tulasi Majhi	Scientist (Horticulture)	Horticulture	Rs15600-39100/- AGP6000/- Rs.19050/-	22.05.2012	Permanent	ST
6	Subject Matter Specialist	Dr. Hrudananda Malik	Scientist (Animal Science)	Animal Science	Rs15600-39100/- AGP6000/- Rs.16920/-	15.6.2016	Permanent	SC
7	Subject Matter Specialist	--	--				Permanent	OT
8	Programme Assistant	Sri Srikrushna Behera	Programme Asst. (Plant Physiology)	Plant Physiology	Rs9300-34800/- AGP Rs.4200/- Rs.10130/-		Permanent	OT
9	Computer Programmer	Sri Dillip Kumar Barik	Programme Asst. (Computer)	PGDCA	Rs9300-34800/- AGPRs.4200/- Rs.11470/-	04.12.2012	Permanent	OT
10	Farm Manager	Smt. Priyadarsini Swain	(Farm Manager)	Plant breeding	Rs9300-34800/- AGP Rs. 4200/- Rs.11470/-	09.04.2012	Permanent	OT
11	Accountant / Superintendent	--	--	-			Permanent	OT
12	Stenographer	Miss	Steno-cum-	BA	Rs5200-20200/-AGP	28.07.2015	Permanent	SC

		Chandrakanti Mallick	Computer Operator		Rs.2400/- Rs.5670/-			
13.	Driver	Sri Keshab Chandra Sa	Driver-cum-Mechanic	1Oth	Rs. 5200-20200/- AGP Rs.1900/- Rs7130/-	19.07.2008	Permanent	OT
14.	Driver	Sri Pradeep Kumar Pradhan	Driver-cum-Mechanic	10^{th}	Rs. 5200-20200/- AGP Rs.1900/- Rs5640/-	27.07.2015	Permanent	OT
15.	Supporting staff	Sri Bhuta Naik	Peon-cum-Watchman	8^{th}	Rs.4440-7440/- AGP Rs.1300/- Rs.6010/-	26.07.2008	Permanent	SC
16.	Supporting staff	Sri Sangita Gouda	Group-D	8^{th}	Rs. 4750-14680/- AGP Rs.1500/- Rs.5340/-	26.11.2014	Permanent	SC

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	0.6
2.	Under Demonstration Units	0.6
3.	Under Crops	13.0
4.	Orchard/Agro-forestry	2.6
5.	Others with details (IFS)	0.6
	Total	17.4

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		Used	RKVY
8	Farm godown	Not yet started	--	--	--	--		--	--
9.	Dairy unit	Not yet started	--	--	--	--		--	--
10.	Poultry unit	Completed	Completed	Completed	Completed	Completed		Used	RKVY
11.	Goatary unit	Not yet started	--	--	--	--		--	--
12.	Mushroom Lab	Completed	Completed	Completed	Completed	Completed		Used	RKVY
13.	Mushroom production unit	Completed	Completed	Completed	Completed	Completed		Used	RKVY
14.	Shade house	Not yet started	--	--	--	--		--	--

15.	Soil test Lab	Completed	Completed	Completed	Completed	Completed		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	196810	Running condition
Tractor	2005	3,28,000	3140.8hrs	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		All the equipment are in functional condition except Nitrogen analyser and incubator	ICAR
Spectrophotometer	2003			ICAR
Ph meter	2003			ICAR
Conductivity Meter	2003			ICAR
Hot air oven	2003	16,000		ICAR
Chemical balance	2003			ICAR
Mechanical shakeup	2003			ICAR
Water Bath	2003	12,000		ICAR
Incubator	2003	45,000		ICAR
Mridaparikshak kit	2003	86,000		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				
Tractor	2005	3,28,000	Equipments are in	ICAR

Rotavator	2005	16,953	functional condition	ICAR
MB plough	2005	31,000	Damaged	ICAR
c. AV Aids				
Projector	2008	50,000	AV aid is in functional condition	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Tractor	2005	3,28,000	Running condition	ICAR
Rotavator	2005	16,953	Working condition	ICAR
MB plough	2005	31,000	Damaged	ICAR

1.8. Details SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	12.03.2018	50	Plant hopper in Paddy is a severe problem affecting crop yield to a greater extent thus IPM technology may be promoted at farmers field	Assessment of IPM modules for the management of plant hoppers in rice	
			Assessment on varietal trial on Pigeon pea may be taken up to evaluate the yield performance	Assessment of pigeon pea varieties *BRG-4*, *BRG-5* & *Rajeeblochan* under Kalahandi conditions	
			Introduction and popularization of duck and quail farming in tribal pockets of the district to improve their livelihood	Demonstration on duck (*Khaki Cambell*) farming for profitable egg and meat production Demonstration on quail farming for profitable egg and meat production	
			Action must be taken to address the issues regarding *fusarium* wilt and gram pod borer management in pigeon pea	Demonstration on Emmamectin benzoate 5% SG for control of gram pod borer in pigeon pea	
			Research trial may be conducted on performance of micronutrient application in vegetable crops on quality and yield enhancement	Demonstration on foliar application of water soluble fertilizers in chilly Demonstration of Borax and sulphur application in Onion	

			Development of farming system model in module village	Farming system module (Pond based farming system and Horticulture based farming system) is developed in adopted villages (Doubling Farmers' Income)	
			Focus should be made on promotion of fodder cultivation	Demonstration on Fodder cultivation for higher milk production in cattle	

** Salient recommendation of SAC in bullet form*
Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2017-18)

Sl. no.	Item	Information
1	Major Farming system/enterprise	Agriculture & Horticulture
2	Agro-climatic Zone	Western undulating
3	Agro ecological situation	08
4	Soil type	Red soil, Black soil, Red and Black Soil
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Paddy- 42.0q/ha Pigeonpea- 12.0q/ha Greengram-7.2q/ha Cotton-12.15q/ha Onion-139.0q/ha Groundnut-23.2q/ha Sunflower-14.5q/ha
6	Mean yearly temperature, rainfall, humidity of the district	Maximum temperature = 24.0 – 47.0 ^{o}C Minimum temperature = 4.0 – 28.5 ^{o}C Rainfall = 1378 mm

7	Production of major livestock products like milk, egg, meat etc.	

Note: Please give recent data only

2.b. Details of operational area / villages (2017-18)

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1	Boria	Kesinga	Boria	Paddy, Cotton, Arhar, Black gram , Green gram, Groundnut, Banana, poultry	Cotton- High incidence of pest and disease like sucking pest in cotton weed problem and high cost of production Pigoen Pea- Low yield in Pigeon pea due to severe pod borer infestation. Use of Local degenerated Pigeon Pea cultivar (desikandula&kabarakandula). Blanket Fertilizer and no seed inoculation practice. High Seed rate and low yield due terminal drought Paddy- High weed incidence in Kharif paddy. Non availability of drought tolerant variety Green gram- Incedence of YVMV in Greengram	Crop substitution replacing mono cropping of paddy particularly in upland **Promotion of drought resistance short duration paddy varieties** **Cultivation of Kharif potato and onion** **Aquaculture practices in low lying areas** IPM strategies for paddy, cotton and vegetables Integrated crop management practices for vegetables Weed management Popularization of wilt resistant varieties of tomato and brinjal Introduction of low cost improved agricultural implements for small and marginal farmers Backyard poultry and duckery for income generation Awareness for stocking density with appropriate species combination, pre- and post- stocking management practices, and knowledge on supplementary feeding in pisciculture Development of integrated fish farming with livestock and agriculture Development of integrated fish farming with livestock and agriculture Awareness regarding health and nutrient management of mother and child Entrepreneurship development Drudgery reduction in women Soil test based fertilizer application for sustainable yield IPM strategies for paddy, cotton and vegetables Integrated crop management practices for vegetables Weed management
	Boden	Dharmagarh	Boden	Paddy, Groundnut, Banana, Green gram, Vegetable (Brinjal, chilli, Tomato, Cole crop), poultry	Paddy- High weed infestation and incedecne of plant hopper and mite. Vegetables-Wilting in solanaceous crops.leaf curl in chilly and micronutrient deficiency in vegetable crops Greengram- Incedence of YVMV and powdery mildew Groundnut- Non availability of high yielding varieties. Micronutrient deficiency and incidence of early leaf spot and bud necrosis. Banana- Indescriminate use of chemical fertilizer and incidence of sigatoka disease. Poultry- Low growth rate of chicks Low egg laying capacity High rate of chick mortality High rate of vent pecking High rate of cannibalisim Poor egg quality (cracked egg shell)	

	Kamardha	Lanjigarh	Kamardha	Paddy, Cotton, Arhar, Maize, green gram Vegetable (Brinjal, chilli, Tomato, Cole crop), poultry, Goatery	Paddy- High dose of –fertilizer Severe infestation of BPH & WBPH and stem borer. Maize-Non availability of suitable variety of Maize. Pigeon pea- Pod borere and Fusarium wilt Vegetables crops- Low yield due to lack of scientific practices.little leaf in Brinjal and fruit rot in Tomato and poor curd development in Cauliflower Goatery- Increase incidence of worm (ectoparasite and endoparasite) infestation in goat Poor growth rate of kid High mortality rate of kid Green gram-High seed rate and incidence of YMV Poultry- Low egg laying capacity High rate of chick mortality	
	Temri	Golamunda	Temri	Paddy, Ground nut, Green gram, Black gram, Vegetable (Brinjal, chilli, Tomato, Cole crop), poultry	Paddy- High rate of insect pest infestation (BPH& Stem Borer) Overdose of N-fertilizer application. Blackgram & Greengram -High sucking pest incidence like YMV, white flies, Jassiids, etc Tomato- Fruit borer and leaf curl DBM in Cauliflower and leaf webber in Cabbage Poultry- Low egg laying capacity High rate of chick mortality Groundnut- Weed infestation and collar rot & Tikka in Groundnut	
	Mandel	Narla	Dahala	Paddy, Cotton, Arhar, Maize, Groundnut, Black gram, Green gram, poultry, Goatery	Cotton - High incidence of sucking pest and bollworm. Rampant use of fertilizer & indiscriminate use of plant chemicals. High incidence of pest and disease like sucking pest Paddy- High weed incidence, Imbalance dose of fertilizer, application Low yield due terminal drought and Incidence of BLB Blackgram- High seed rate, Farmers do not apply fertilizer and biofertilizer, YMV infestation Goatery- High endoparasitic infestation, high morbidity and mortality rate of kids with lower birth weight Poultry- Low income from poultry due to rearing of local bird	

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2017-18) for its development and action plan

Name of village	Block	Action taken for development
Boria	Kesinga	Demonstration on Integrated Pest Management practices of Gram pod borer in Pigeon Pea . Promotion of Pulse Seed Hub programme (Pigeon pea) On farm testing of insecticides with botanicals and parasites for management of stem borer in Paddy Cultivation of short duration rice *Var-DRR42 & DRR44* for terminal drought YVMV Management in Green gram (Installation of yellow sticky trap and application of Thiomethoxam 25 % WG @ 100 gm/ha) Cluster FLD on Green gram on Rice-fallow cropping system Integrated Disease Management in Banana for higher productivity Alternative income generation through Mushroom production and capacity building programmes Demonstration on dual type Vanaraja poultry birds for egg and meat production
Boden	Dharmagarh	On farm testing of insecticides with botanicals and parasites for management of stem borer in Paddy Cultivation of short duration rice *Var-DRR42 & DRR44* for terminal drought Demonstration on Integrated Pest Management modules for the management of plant hoppers in rice Promotion of market driven production of fruits and vegetables. Cultivation of powdery mildew resistance watermelon Cv.Arka Manika. Demonstration on dual type Vanaraja poultry birds for egg and meat production Promotion of mushroom cultivation for the round the year production Promotion and cultivation of offseason vegetable for higher income
Kamardha	Lanjigarh	Crop diversification: Upland paddy is replace by hybrid maize cultivation for higher productivity Demonstration on Integrated Pest Management modules for the management of plant hoppers in rice Cluster Frontline demonstration on Green gram to control YVMV (Application of Thiomethoxam @ 40 gm/acr of& yellow sticky trap @20 per acr) Cluster frontline demonstration of HYV pigeon pea (ICPL 87119) for higher productivity. Promotion and cultivation of offseason vegetable for higher income Promotion of kharif onion and potato for higher income Promotion of goat farming for sustainable livelihood Demonstration on dual type Vanaraja poultry birds and duck for egg and meat production Promotion of mushroom cultivation for round the year production
Temri	Golamunda	On farm testing of insecticides with botanicals and parasites for management of stem borer in Paddy Cultivation of short duration rice *Var-DRR42 & DRR44* for terminal drought YVMV Management in Green gram (Installation of yellow sticky trap and application of Thiomethoxam 25 % WG @ 100 gm/ha) Cluster FLD on Green gram on Rice-fallow cropping system Integrated Disease Management in Banana for higher productivity

Dahala	Narla	Demonstration of Integrated Pest Management practices in cotton Cluster frontline demonstration on green gram (Application of imazethapyr(2%) + pendimethalin(30%) (RM) @ 1000 ml/ha as pre-emergence for weed control and line sowing of treated seeds 25x10cm) Bio chemical control measures against mealy bug infesting in cotton Cluster frontline demonstration in groundnut (Foliar application of Boron @1kg/ha at pre-flowering stage and for control of bud necrosis spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water Or Acetamiprid 20% S.P. @ 100 gm/liter of water) Demonstration on application of sulphur in onion cultivation for better shelf life and Promotion on onion storage structure Promotion of market driven production of fruits and vegetables. Cultivation of powdery mildew resistance watermelon Cv.Arka Manika. Demonstration on dual type Vanaraja poultry birds for egg and meat production Promotion of mushroom cultivation for the round the year production Mineral supplement and proper vaccination to kids for gain in body weight

2.1 Priority thrust areas

S. No	Thrust area
1.	Crop diversification in rainfed upland situation
2.	Promotion of drought resistance short duration paddy varieties
3.	Cultivation of Kharif potato and onion
4.	Green manuring for sustainable soil health
5.	*Paira* cropping (Greengram/Chick pea/Field pea/Lathyrus)
6.	Organic farming for vegetables and line sowing of paddy and other crops.
7.	Popularization of farm machinery
8.	Coverage of rice fallow areas by pulses
10.	Aquaculture practices in low lying areas
11.	Rearing of Quail, Duck and Ornamental birds
12.	Rearing of dairy goat (Jamunapari) for milk production
13.	Cultivation of fodder grasses (Hybrid napier, Maize, Cowpea)
14.	Up gradation of indigenous cow by selective mating with locally available superior bull.
15.	Mushroom cultivation

3. TECHNICAL ACHIEVEMENTS

3.A.Details of target and achievement of mandatory activities by KVK during the year

OFT						FLD					
No. of technologies:						No. of technologies:					
Number of OFTs		Number of farmers				Number of FLDs		Number of farmers			
Target	Achievement	Target	Achievement			Target	Achievement	Target	Achievement		
			SC/ ST	Others	Total				SC/ ST	Others	Total
11	11	77	26	51	77	20	20	100	24	76	100

Training						Extension activities					
Number of Courses		Number of Participants				Number of activities		Number of participants			
Target	Achievement	Target	Achievement			Target	Achievement	Target	Achievement		
			SC/ ST	Others	Total				SC/ ST	Others	Total
105	97	2335	1125	1010	2135	1834	1834	52691	29521	23170	52691

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
270	270	1.1	1.1

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
--	--	0.00295	0.00295

* Give no. only in case of fish fingerlings

Publication by KVKs		
Item	Number	No. circulated
Research paper	22	--
Seminar/conference/ symposia papers	05	--
Books	--	--

Bulletins	--	--
News letter	01	500
Popular Articles	12	--
Book Chapter	--	--
Extension Pamphlets/ literature	10	200 per copy
Technical reports	04	50
Electronic Publication (CD/DVD etc)	04	--
TOTAL	58	2150

1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Assessment of Bio chemical control measures against mealy bug infesting in cotton
2.	Problem diagnosed	Low yield of cotton due to severe infestation of sucking pest mealy bug during vegetative & flowering stage
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment
4.	Source of Technology	OUAT
5.	Production system and thematic area	Rainfed Upland, Cotton– Fallow and pest management
6.	Performance of the Technology with performance indicators	T1:Spraying of NSKE @ 5 ml/lt. with 15gm surfactant with 5ml of fish oil /lt of water . T2:Application of Flonicamid 175 g/ ha with surfactant. T3: Application of Profenophos 50 EC @ 2ml/lt of water. performance indicators - % of infestation, No of affected plant/10mt2 Pest severity % , No of boll/plant, Boll size , Yield/ha, B:C ratio
7.	Final recommendation for micro level situation	Early sowing with proper plant spacing and application of NSKE @ 5 ml/lt. with 15gm surfactant with 5ml of fish oil /lt of water and need based application of Flonicamid 175 g/ ha with surfactant during pest emergence.
8.	Constraints identified and feedback for research	Unavailability of suitable resistant variety and cost effective
9.	Process of farmers participation and their reaction	Farmers are aware about mealy bug management practices and ready to accept the technology which is cost effective.

Thematic area: Pest Management

Problem definition: Low yield of cotton due to high incidence of sucking pest, indiscriminate application spurious pesticide and lack of awareness about sucking pest management

Technology assessed: Assessment of Bio chemical control measures against mealy bug infesting in cotton

OFT-2

1.	Title of On farm Trial	Assessment of IPM modules for the management of plant hoppers in rice
2.	Problem diagnosed	Low yield in rice due to heavy infestation of BPH & WBPH d during grain maturity stage. (Pooja)
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment
4.	Source of Technology	DRR, OUAT
5.	Production system and thematic area	Irrigated shallow lowland, Rice– Green gram *Integrated Pest Management*
6.	Performance of the Technology with performance indicators	T1:Skip row planting (after 3 m), installation of spider trap @ 25/ ha T2: Need based alternate spraying (based on ETL) of thiomethoxam @ 100g/ ha and buprofezin @ 750 ml/ ha with tank mix of neem oil T3:Skip row planting (after 3 m), installation of spider trap @ 25/ ha. Need based alternate spraying (based on ETL) of Flonicamid 175 g/ ha with tank mix of neem oil BPH & WBPH/ hill, Spiders/ hill, mirid bugs/ hill & % affected Yield/ha, B:C ratio
7.	Final recommendation for micro level situation	Skip row planting (after 3 m), installation of spider trap @ 25/ ha and Need based alternate spraying (based on ETL) of Flonicamid 175 g/ ha with tank mix of neem oil will effectively manage the pest.
8.	Constraints identified and feedback for research	Identification of BPH resistant variety for both Kharif and Rabi season, Identification of prophylactic pest management technology.
9.	Process of farmers participation and their reaction	Farmers are involved in all awareness programme, farmers training and educated through diagnostic field visit.

Thematic area: Integrated Pest Management

Problem definition: Unavailability of resistant rice variety, Lack of awareness about proper pest management schedule, High dose of nitrogenous fertilizer application, High plant population and Application of spurious pesticide with improper doses

Technology assessed: Assessment of IPM modules for the management of plant hoppers in rice.

OFT-3

1.	Title of On farm Trial	Assessment new acaricide against red spider mite in brinjal
2.	Problem diagnosed	Low yield due to heavy mite infestation in Brinjal
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment
4.	Source of Technology	OUAT
5.	Production system and thematic area	Irrigated Medium land, Paddy-Brinjal Pest Management
6.	Performance of the Technology with performance indicators	T1:Application of neem cake @ 250 kg/acre T2:Application of Etoxazole 10 % SC @ 40 gm a.i /ha T3: Application of Propargite57%EC@100ml/ha % of infestation, No of affected leaf/plant, No of affected plant/10mt2, Pest severity (%) , Yield/ha, B:C ratio
7.	Final recommendation for micro level situation	Application of neem cake @ 250 kg/acre during planting and application of Etoxazole 10 % SC @ 40 gm a.i /ha can manage the pest effectively
8.	Constraints identified and feedback for research	Identification of suitable resistant variety, suitable planting time for Kharif, Rabi & summer season and biological management schedule.
9.	Process of farmers participation and their reaction	Farmers are educated by farmers training programme, awareness programme, diagnostic field visit and farmers are reported that the new acaricide molecule can effectively manage the mite in brinjal crop.

Thematic area: Pest Management

Problem definition: low yield due to severe infestation of mite, high dose of nitrogenous fertilizer application, low FYM application, non availability of resistant variety, lack of awareness about mite management in brinjal crop and application of non targeted acaricides

Technology assessed: Assessment new acaricide against red spider mite in brinjal

OFT-4

1.	Title of On farm Trial	Assessment on Performance of Kharif Potato variety *Kufri jyoty, Kufri Ashok & Kufri Pukhraj*
2.	Problem diagnosed	In time unavailability of seed material during Rabi season.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment
4.	Source of Technology	CPRI, Shimla, 2010
5.	Production system and thematic area	Rainfed Upland, Potato-fallow Varietal evaluation
6.	Performance of the Technology with performance indicators	T1:Potato var. Kufri jyoty T2: Potato var. Kufri Himalini T3:Potato var. Kufri Pukhraj Blight Infestation (%), Bulb weight, No. of bulb/plant , Yield, B:C ratio, Net Profit
7.	Final recommendation for micro level situation	Kufri Ashoka and Pukharaj variety resistance to late blight
8.	Constraints identified and feedback for research	Farmers are generally cultivating upland paddy in kharif seasons they are not interested to cultivate kharif potato due to more blight infestation in kharif potato cultivation
9.	Process of farmers participation and their reaction	In kharif potato market price is high hence Farmers were interested to cultivate kharif Potato

Thematic area: Varietal evaluation

Problem definition: In time unavailability of seed material during Rabi season.

Technology assessed: Assessment on Performance of Kharif Potato variety *Kufri jyoty, Kufri Ashoka & Kufri Pukhraj*

OFT-5

1.	Title of On farm Trial	Assessment of marigold variety *Ceracole* & *Pusa Narangi* for optimum usage of unutilized land for sustainable income
2.	Problem diagnosed	Backyard areas are generally remain unutilized
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment
4.	Source of Technology	OUAT,2010,IARI,New Delhi, 1995
5.	Production system and thematic area	Irrigated backyard Marigold-vegetable Varietal evaluation
6.	Performance of the Technology with performance indicators	T1:Marigold var. Ceracole T2:Marigold var. Pusa Narangi Height of the Plant (cm), Flower size (cm), Flower weight (gm), No of flower/plant, Keeping quality (Days) Yield B:C ratio Net profit
7.	Final recommendation for micro level situation	Cultivation of Marigold var. Ceracole and Pusa Narangi
8.	Constraints identified and feedback for research	Farmers are not utilized their Backyard areas for marigold cultivation
9.	Process of farmers participation and their reaction	Farmers get more profit and backyard areas optimum usage of unutilized land for sustainable income.

Thematic area: Varietal evaluation

Problem definition: Backyard areas are remain unutilized

Technology assessed: Assessment of marigold variety *Ceracole* & *Pusa Narangi* for optimum usage of unutilized land for sustainable income

OFT-6

1.	Title of On farm Trial	Assessment of pigeon pea varieties *BRG-4, BRG-5* & *Rajeeblochan* under Kalahandi conditions
2.	Problem diagnosed	Old and degenerated cultivar with more infestation of pod borer affecting yield
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment
4.	Source of Technology	UAS,Banglore,IGKV,Raipur
5.	Production system and thematic area	Rainfed upland Pigeon Pea-fallow Varietal evaluation
6.	Performance of the Technology with performance indicators	T1: Cultivation of Pigeon Pea Var.BRG-4 (Source: UAS, Banglore) T2 : Cultivation of Pigeon Pea Var.BRG-5 (Source: UAS, Banglore) T3: Cultivation of Pigeon Pea Var. Rajeeb lochan (RA-6) (Source: IGKV, Raipur) Plant height (cm), No. of pods/plant , No. of seeds/pod, Seed weight (g) Yield, Net return
7.	Final recommendation for micro level situation	BRG-4
8.	Constraints identified and feedback for research	Seed Availability at farmers' level
9.	Process of farmers participation and their reaction	07 no. of beneficiaries took part in this trail and adoption level to the technology is 75%.

Thematic area: varietal evaluation

Problem definition: practice of old and degenerated varieties with more infestation of pod borer affecting yield and also less rate of disease pest tolerance.

Technology assessed: Assessment of pigeon pea varieties *BRG-4, BRG-5* & *Rajeeblochan* under Kalahandi conditions

OFT-7

1.	Title of On farm Trial	Assessment of seed coating of Green gram with lime
2.	Problem diagnosed	Low yield due to lack of seed inoculation and acidic soil
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment
4.	Source of Technology	OUAT
5.	Production system and thematic area	Irrigated upland Green gram-paddy *soil management*
6.	Performance of the Technology with performance indicators	T1 : STBF+ Inoculation of Rhizobium (Source: OUAT) T2 : STBF+Inoculation of Rhizobium with Lime seed coating (Source: OUAT) Plant height (cm), No. of pods/plant , No. of seeds/pod, Seed weight (g) Yield, Net return
7.	Final recommendation for micro level situation	STBF+Inoculation of Rhizobium with Lime seed coating
8.	Constraints identified and feedback for research	STBF+ Inoculation of Rhizobium technology is also performed well but the uniformity in germination % is a problem.
9.	Process of farmers participation and their reaction	Adoptability is very high and performance is very effective.

Thematic area: soil management

Problem definition: Low yield due to lack of seed inoculation and acidic soil

Technology assessed: Assessment of seed coating of Green gram with lime

OFT-8

1.	Title of On farm Trial	Assessment of Boron on yield and quality of cauliflower
2.	Problem diagnosed	Low market value due to poor development of curds and bronzing patches
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment
4.	Source of Technology	HAU, Hissar
5.	Production system and thematic area	Irrigated Medium, Paddy-cauliflower Nutrient Management
6.	Performance of the Technology with performance indicators	T1:Soil test based fert. (NPK) +10 kg/ha Borax applied as soil application T2:Soil test based fert. (NPK) +0.3% spray at flowering stage (two spray at 15 days interval) Curd weight(kg),Keeping quality of the flower Yield/ha ,B:C Ratio
7.	Final recommendation for micro level situation	Recommended dose of micronutrient Boron improves yield in cauliflower
8.	Constraints identified and feedback for research	Farmers use only NPK fertilizer without boron but due to boron application the poor development of curds are avoided. Boron deficit enhances low uptake of NPK nutrients.
9.	Process of farmers participation and their reaction	Farmers were enthusiastically participated during on farm testing research. They learned and applied Boron in their land to avoid bronzing patches in curd.

Thematic area: Nutrient Management

Problem definition: poor development of curds and bronzing patches .

Technology assessed: Assessment of Boron on yield and quality of cauliflower

OFT-9

1.	Title of On farm Trial	Assessment of Fruit cracking and Blossom end rot of Tomato by application of Boron and calcium
2.	Problem diagnosed	Farmers do not use micronutrient Boron and also Calcium
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment
4.	Source of Technology	KVK, Rauri
5.	Production system and thematic area	Irrigated Medium land, Paddy-Tomato Nutrient Management
6.	Performance of the Technology with performance indicators	T1:NPK - 150:120:55 + FYM 10 tonne per ha. T2:NPK - 150:120:55 + FYM 10 tonne per ha. + Foliar application of Boric acid @0.4% + Calcium Chloride @ 0.5% at fruit development stage No. of fruits per plant,% of fruit cracking Yield/ha,Net income ,B:C Ratio
7.	Final recommendation for micro level situation	Recommended dose of micronutrients increases production in tomato.
8.	Constraints identified and feedback for research	Fruit cracking will be avoided by application of Boron and calcium. Calcium improves fruit quality in tomato.
9.	Process of farmers participation and their reaction	Farmers were enthusiastically participated during on farm testing research. They learned and applied Boron and calcium in their land.

Thematic area: Nutrient Management

Problem definition: Low yield and Fruit cracking and Blossom end rot in Tomato

Technology assessed: Assessment of Fruit cracking and Blossom end rot of Tomato by application of Boran and calcium

OFT-10

1.	Title of On farm Trial	**Assessment on effect of feed supplements on performance of Cattle**
2.	Problem diagnosed	Low rate of milk production and poor growth rate of calf
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment
4.	Source of Technology	OUAT, 2012
5.	Production system and thematic area	Rain fed Upland, Paddy-Cattle Livestock Production
6.	Performance of the Technology with performance indicators	T1:Feeding of indigenous cattle with 1kg of concentrate diet and 20 kg of grass daily for three month (varies with body weight) T2: Feeding of indigenous cattle with 100 gm of mineral supplements (Deficiency selected by soil testing), 1kg of concentrate diet and 20 kg of grass daily for three month (varies with body weight) Growth rate, Body weight gain and incidence of disease occurrence Yield/Cow,B:C Ratio
7.	Final recommendation for micro level situation	Recommended dose of mineral supplements with sufficient fodder grass should be fed to cow for enhanced milk production.
8.	Constraints identified and feedback for research	Fodder grasses are not available during summer (April-June). So perennial fodder grasses should be more cultivated.
9.	Process of farmers participation and their reaction	Farmers were enthusiastically participated during on farm testing research. They learned and practiced fodder cultivation in their land.

Thematic area: Livestock Production

Problem definition: low milk yield and growth rate of calf

Technology assessed: Effect of mineral supplements on performance of cattle

OFT-11

1.	Title of On farm Trial	**Evaluation of CARI model of duck farming in polythene ponds**
2.	Problem diagnosed	High mortality rate, low growth rate of duck, low egg laying capacity of duck
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment
4.	Source of Technology	CARI, 2012
5.	Production system and thematic area	Rain fed Upland, Paddy-Cattle *Poultry Production*
6.	Performance of the Technology with performance indicators	T1: Rearing of duck in polythene pond of dimension up to 10ft X 10ft X2.5 ft for age group of 2 weeks and above T2: Feeding of indigenous cattle with 100 gm of mineral supplements (Deficiency T2: 50-100 gm of feed daily during scavenging and vaccinate with i) Duck cholera- 1ml/sc at 3-4 wk ii) Duck plague-1ml/sc at 8-12 wk Growth rate, Mortality rate and incidence of disease occurrence Egg production/duck, B:C Ratio
7.	Final recommendation for micro level situation	Rearing of duck in polythene pond of dimension of 10ft X 10ft X2.5 ft for age group of 2 weeks and above .
8.	Constraints identified and feedback for research	Scantily availability of water bodies for duck rearing
9.	Process of farmers participation and their reaction	Farmers were enthusiastically participated during on farm testing research. They learned how to rear and manage duck in their back yard.

Thematic area: Poultry Production

Problem definition: High mortality rate, less growth rate, low egg laying capacity

Technology assessed: **Evaluation of CARI model of duck farming in polythene ponds**

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.)						
Assessment of Bio chemical control measures against mealy bug infesting in cotton	07	Infestation rate during September (%) T1:15 T2:11 T3:16			Infestation rate during August (%) T1:12 T2:8 T3:10	T1:21.5 T2:23 T3:20	28,000 29,000 29,000	107,500 1,15,000 100000	T1:79500 T2:86000 T3:71000	T1:2.83 T2:2.96 T3:2.44
Assessment of IPM modules for the management of plant hoppers in rice	07	No. of insect /Hill T1:370 T2:265 T3:187			Infestation % T1:7 T2:5 T3:3	T1:34 T2:36 T3:41	21,000 21,000 21,000	52,700 55,800 63,550	T1:31700 T2:34800 T3:42550	T1:1.50 T2:1.65 T3:2.0
Assessment new acaricide against red spider mite in brinjal	07		No. of Fruit/Plant T1:108	Fruit Wt. (g) T1:213		T1:301.4	T1:56500	T1:150700	T1:94200	T1:2.6
Assessment on Performance of Kharif Potato variety *Kufri jyoty*, *Kufri Ashoka* & *Kufri Pukhraj*	07			Bulb Wt (g) T1:78 T2:82	Blight Infestation(%) T1:8 T2:6	T1:132.5± 1.16[b] T2:145 ± 0.99[c]	T1:38000 T2:38000	T1:106000 T2: 116000	T1:68000 T2: 78000	T1: 2.7 T2: 3.0
Assessment of marigold variety *Ceracole* & *Pusa Narangi* for optimum usage of	07			Height of the Plant (Cm) T1- 121 T2- 112 T3-89		T1- 107.2 T2- 141.2 T3- 146.5	T1- 45000 T2- 52000 T3- 52000	T1-107200 T2- 141200 T3- 146500	T1- 62200 T2- 89200 T2- 94500	T1-2.3 T2- 2.7 T3- 2.8

unutilized lanfor sustainable income				No. of Flower/Plant T1- 87 T2-154 T3- 148						
Assessment of pigeon pea varieties *BRG-4*, *BRG-5* & *Rajeeblochan* under Kalahandi conditions	07	No. of branches T1:17.00 T2:16.5 T3:18.9	No. of pods/plant T1:74.56 T2:68.59 T3:71.58	100 Seed weight (g) T1:9.68 T2:8.75 T3:9.23	No. of seeds/pod T1:4.35 T2:3.98 T3:3.67	T1:14.4 T2:11.9 T3:12.4	T1:49180 T2:65863 T3:48743	T1:79500 T2:86000 T3:71000	T1:30320 T2:20137 T3:22257	T1:2.62 T2:4.27 T3:3.19
Assessment of seed coating of Green gram with lime	07	No. of seeds/pod T1:7.59 T2:8.72	No. of pods/plant T1:18.69 T2:19.47	Seed weight (g) T1:25.97 T2:27.69	Plant height (cm) T1:27.49 T2:28.63	T1: 7.14 T2: 7.59	T1:33348 T2:34648	T1: 48000 T2: 52000	T1:14652 T2:17352	T1:3.27 T2:2.99
Assessment of Boron on yield and quality of cauliflower	07			Curd weight(gm) T1:750 T2:830 T3:950		T1: 210±0.90 T2: 257±0.81 T3: 271.5±0.71	T1:48400 T2:52200	T1:101750 T2: 115500	T1:53350 T2: 65300	T1:2.1 T2:2.3
Assessment of Fruit cracking and Blossom end rot of Tomato by application of Boran and calcium	07		No. of Fruit/Plant T1:78 T2:105 T3:122	Fruit Wt. (g) T1:42 T2:51 T3:80		T1: 157.6±0.77 T2: 176.7±0.72 T3: 206±0.79	T1:40500 T2:42500	T1:87750 T2: 102440	T1:47250 T2: 59940	T1:2.12 T2:2.41
Assessment on effect of feed supplements on performance of Cattle	07	Feed conversion ratio (FCR) T1:1.8 T2:1.48 T3:1.55		Avg. Body weight gain (g/day) T1:67.5±1.60[b] T2:	Infection rate/3 month T1:2 T2:2	T1: 4.9±0.23[b] T2: 4.77±0.15[b]	T1:5000 T2:5000	T1:11300 T2:10600	T1:6300 T2:5600	T1:2.26 T2:2.12

				64.29±1.50[b]						
Evaluation of CARI model of duck farming in polythene ponds	07			Annual Egg Production (no.) T1:166 T2:202 T3:227	Mortality rate (%) T1:23 T2:11 T3:9	Avg. Body weight gain (g/day) T1:5.5 T2:6.5 T3:7.4	T1:500 T2:550 T3:600	T1:980 T2:1230 T3:1435	T1:480 T2:680 T3:835	T1:1.96 T2:2.23 T3:2.39

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	
1.	Chilly	Nutrient management	Foliar spray of NPK 19:19:19 at a concentration of 3 gm/lit at 45 ,60 and 70	1.0	1.0	1	4	5	
2.	Sweet Potato	Varietal demonstration	Cultivation of Sweet Potato variety Kanchan	1.0	1.0	3	2	5	
3.	Brinjal	Varietal demonstration	Demonstration on on Performance of Brinjal variety Arka Neelachal Shyama	1.0	1.0	2	3	5	
4.	Mango	Nutrient management	Beheading the plant at 75 cm above ground induces primary branching and again cutting individual primary branches at 45 cm length, which make the plant with bushy canopy	1.0	1.0	4	1	5	

			and low height						
5.	Onion	Nutrient management	T1:Soil application of sulfex@20kg/ha and Borax 10 kg/ha with STBF T2: Soil application of sulfex@20kg/ha+Borax 10 kg/ha & spraying of Borax@0.5% during bulb formation stage with STBF	1.0	1.0	2	3	5	
6.	Banana	Nutrient management	FYM-10-15 kg per pit, 300-100-300 gm NPK per pit, N 200gm at 2,4,6 months and K 300gm at 2,6 months after planting	1.0	1.0	1	4	5	
7.	Green gram	Nutrient management	*Rhizobium @ 20g/kg of seed* + FYM @ 2.5 t/ha + VAM (soil host root based culture, 10kg/ha) with75% of STBF.	1.0	1.0	2	3	5	
8.	Maize	Nutrient management	INM (Biofertilizer Azotobactor, Azospirilum & PSB @ 3kg each with FYM @ 10 tones/ ha +N:P:K on soil test based	1.0	1.0	3	2	5	
9.	Goat	Production management	Demonstration of health management in goat for enhanced milk and meat production	25 no. of goat	25 no. of goat	3	2	5	
10.	Cattle	Production management	Feeding to lactating cow with 20 kg Maize& Hybrid Napier (Cut after 2 months of sowing), supplemented with 1kg of concentrate mixture daily	25 no. of cattle	25 no. of cattle	2	3	5	
11.	Duck	Production management	Rearing of duck (*Khaki Cambell*) with a shed area of 2 ft^2/duck with supplementary feeding @ 50-100 gm duck/day and	50 no. of duck	50 no. of duck	1	4	5	

			vaccinate with i) Duck cholera- 1ml/sc at 3-4 wk ii) Duck plague-1ml/sc at 8-12 wk.						
12.	Quail	Production management	Rearing of Japanese quail , Verities: *Cari uttam* (Broiler quail) and Cari pearl (Egg type quail) in a shed area of $1m^2$/5 bird and fed quail with 20 gm of feed supplements/day	1.0	1.0	2	3	5	
13.	Groundnut	Nutrient management	Application of Oxyflurofen 23.5EC@200ml/ha two days after sowing	1.0	1.0	5	5	10	Though the groundnut crop has tendency of more weed infestation so weedicide application is a cost effective phenomena
14.	Paddy	Varietal demonstration	For varietal evaluation basis Short duration(120 days) drought tolerant, tolerant to BLB, rainfed upland paddy, Avg. yield 40 q/ha.	1.0	1.0	6	4	10	-
15.	Sesame	Varietal demonstration	Spacing 25cmx10cm with RDF and prophylactic plant protection measures Seed rate 10kg/ha, Nirmala	1.0	1.0	7	3	10	-
16.	Greengram	Nutrient management	Application of $ZnSO_4$ soil application @25 kg/ha, Borax@10kg/ha, seed treatment with Rhizobium culture @200gm/10kg seed and soil test based fertilizer	1.0	1.0	8	2	10	-
17.	Pigeon pea	Pest management	Application Emmamectin benzoate @ 11 gm a.i./ha @ 0.4 ml/liter of water & Installation of pheromone trap @ 12/ha. For pest monitoring and mass trapping	1.0	1.0	2	5	7	

18.	Paddy	Disease management	Demonstration on combine fungicide Tricyclozole +Propiconazole) 52.5 SC @ 4ml /10 lit of water at 15 days interval	1.0	1.0	3	4	7	
19.	Greengram	Disease management	IPM for YMV management. Application of Ozoneem @ 2.5 ml/lit of water twice at 15 DAS & 30 DAS Fixation of yellow sticky trap @ 50 /ha Need based Foliar spraying of Thiomethoxam 25% WG @ 0.6gm per liter of water	1.0	1.0	1	7	8	
20.	Chilli	Pest management	Suitable management schedule for mite infestation in Chilli. Removal of affected plant part + Spraying of water to break the webs Application of Fenazaquin 10 EC @ 1 ml/lit. at 7-8 days interval. Application of Fenpyroximate 5 EC @1 ml/	1.0	1.0	0	7	7	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P_2O_5	K_2O					
Chilly	Kharif	Rainfed	Red & Yellow	375	22	295	Chilly	25.07.2017	10.10.2017	1155.8	45
Sweet Potato	Kharif	Rainfed	Forest	485	36	285	Sweet Potato	29.06.2017	12.12.2017	1358.4	52
Brinjal	Rabi	Irrigated	Black & red	320	19	275	Brinjal	16.11.2017	20.02.2018	--	--
Mango	Rabi	Irrigated	Mixed red & yellow	342	22	271	Mango	--	--		
Onion	Rabi	Irrigated	Mixed red & yellow	341	21	274	Onion	02.08.18	19.10.17	1906.0	48
54Banana	Kharif	Irrigated	Black & Red	348	31	277	Banana	11.06.2017	05.03.2017	1390.4	54
Gr54een gram	Rabi	Irrigated	Red & Yellow	320	19	275	Green gram	18.11.2017	27.01.18	1447.4	54
Maiz	Rabi	Rainfed	Mixed red & yellow	375	22	295	Maize	15.11.2017	27.02.18	1447.4	57
Goat	Kharif	--	--	--	--	--	Goat	--	--		
Cattle	Kharif	--	--	--	--	--	Cattle	--	--		
Duck	Rabi	--	--	--	--	--	Duck	--	--		
Quail	Rabi	--	--	--	--	--	Quail	--	--		
Groundnt	Rabi	Irrigated	Mixed Red	348	31	277	Groundnut	25.11.2017	18.03.2018	1479.4	57
Paddy	Kharif	Rainfed	Mixed Black & red	345	28	274	Paddy	25.07.2017	10.12.2017	1155.8	45
Sesamum	Kharif	Rainfed	Mixed Black & red	348	31	277	Sesamum	20.07.2017	30.10.2017	1158.8	45
Green gram	Rabi	Irrigated	Mixed Black & red	325	20	270	Green gram	25.12.2017	12.03.2018	1479.4	64
Pigeon pea	Kharif	Rainfed	Mixed red & yellow	340	23	272	Pigeon pea	10.07.2017	20.12.2017	1155.8	45
Green gram	Rabi	Irrigated	Mixed Black & red	325	22	275	Green gram	25.12.2017	12.03.2018	1479.4	64
Chilly	Rabi	Irrigated	Red & Yellow	378	23	290	Chilli	20.10.2017	25.01.2018	616.2	70
Paddy	Kharif	Rainfed	Mixed red	340	26	274	Paddy	25.07.2017	10.12.2017	1155.8	45

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

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Groundnut (Kharif)	Production management	Application Gypsum 250kg/ha in the soil during final ploughing Line sowing of seeds (30cmx15 cm) Seed treatment with Vita vax Power (Carboxin) @ 5 gm/kg of seed before sowing. Application of Imazethapyr @ 750 ml/ha as (20-30 days after sowing based on weed density) as post emergence First hoeing to be done three weeks after sowing and the second one before commencement of flowering. Foliar application of Boron @1kg/ha at pre-flowering stage. To control early leaf spot spraying of Tebuconazol 25.9% EC @ 1ml/lit and for bud necrosis spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water Or Acetamiprid 20% S.P. @ 100 gm/liter of water	50	40	15.65	13.75	13.5	24500	78250	53750	3.19	23600	68750	45150	2.91
Groundnut (Rabi)	Production management		30	37	19.1	17.5	9.1	30000	91500	61500	3.05	29500	87500	59500	2.9
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	Production management	Line sowing of seed with spacing 90cmx60cm.Seed inoculation with Rhizobium culture (20gm per kg of seeds).Application of Pendimethalin (0.75 kg ai/ha) as pre- emergence (3days after sowing of seed) followed by two hand weeding after 21 DAS & 45 DAS to control weed population. Application of Delta+Triazophous@1lit/ha to control Aphid/Thrip population Application of Azadirachtin 0.15%@ 1.5 Lit./ ha + Flubendiamide 48 SC @ 200 ml /h (First spraying at 50% flowering and second 15-20 days after 1ST spraying) to manage pod borer infestation. Application of plant hormone (planofix) 4ml/15lit of water at pre-flowering stage	70	50	12.9	10.8	87.1	24200	51600	27400	2:1	22650	43200	20550	1:9

Black gram	Production management	Line sowing of seed 25x10cm (40 plants/m2) Seed Treatment with Thiomethoxam 75 WG @ 5 gm / Kg seed to protect from sucking pests. Application of imazethapyr(2%) + pendimethalin(30%) (RM) @ 1000 ml/ha as pre-emergence spray in pre-rabi black gram to manage weed infestation. Application of Delta+Triazophous@1lit/ha to control jassid population. Application of Thiomethoxam 25 % WG @ 0.6 gm/ liter of water & yellow sticky trap @50 per ha for mass trapping. Application planofix hormone @4ml/15lit of water before flowering for better crop yield.	39	30	6.7	6.1	93.3	18500	43550	24400	2.35	17700	39650	21950	2.24

Green gram	Production management	Line sowing of seed 25x10cm (40 plants/m2).Seed Treatment with Thiomethoxam 75 WG @ 5 gm / Kg seed to protect from sucking pests. Application of imazethapyr(2%) + pendimethalin(30%) (RM) @ 1000 ml/ha as pre-emergence spray in pre-rabi black gram to manage weed infestation. Application of Delta+Triazophous@1lit/ha to control jassid population.Application of Thiomethoxam 25 % WG @ 0.6 gm/ liter of water & yellow sticky trap @50 per ha for mass trapping. Application planofix hormone @4ml/15lit of water before flowering for better crop yield.	25	20	6.3	5.7	93.7	15100	31500	16400	2.08	14600	28500	13900	1.95
Total															

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

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Chilly	Nutrient management	Foliar spray of NPK 19:19:19 at a concentration of 3 gm/lit at 45 ,60 and 70	05	1.0	49.8	38.6	29.0	Plant Height (Cm)-156 Fruit Wt. (g)-0.56	Plant Height (Cm)-121 Fruit Wt. (g)-0.25	34600	79680	45080	2:3	28500	61760	33260	2:1
Sweet Potato	Varietal demonstration	– Cultivation of Sweet Potato variety Kanchan	05	1.0	251.2	194	29.4	No. of Tuber/Plant-9.2 Fruit Wt. (g) -232	No. of Tuber/Plant-15 Fruit Wt. (g) -102	39200	113040	73840	2.8	32500	87300	54800	2.6
Brinjal	Varietal demonstration	Cultivation of Brinjal Variety Arka Neelachal Shyama	05	1.0	301.4	236.2	27.6	No. of Fruit/Plant-108 Fruit Wt. (g)-213	No. of Fruit/Plant-112 Fruit Wt. (g) -96	56500	150700	94200	2.6	48000	118100	70100	2.4
Onion	Nutrient management	Soil application of sulfex@20kg/ha and Borax 10 kg/ha with STBF	05	1.0	161	144	11.80	Bulb Wt.(g)-57 Bulb Size (Cm) -3.6	Bulb Wt.(g)-44 Bulb Size (Cm)-2.5	55000	123970	68970	2.3	53000	110880	57880	2.1
Banana	Nutrient management	: FYM-10-15 kg per pit, 300-100-300 gm NPK per pit, N 200gm at 2,4,6 months and K 300gm at 2,6 months after planting	05	1.0	377.4	341.2	10.60	Bunch Weight (Kg)-31 Bunch length (Cm)-90.5	Bunch Weight (Kg)-24 Bunch length (Cm)-85.7	125800	264180	138380	2.1	123000	238840	115840	1.9
Green gram	Nutrient management	*Rhizobium @ 20g/kg of seed* + FYM @ 2.5 t/ha + VAM (soil host root based culture, 10kg/ha) with 75% of STBF.	05	1.0	5.82	4.3	35.34	No of Pod/plant-27 % of YMV infested plant-05	No of Pod/plant -18 % of YMV infested plant -24	10720	20370	9649	1.9	10000	15050	5050	1.5

Maize	Nutrient management	INM (Biofertilizer Azotobactor, Azospirilum & PSB @ 3kg each with FYM @ 10 tones/ ha +N:P:K on soil test based	05	1.0	41.5	31.6	31.32	No. of Cobs per plant-3	No. of Cobs per plant-3	19700	41500	21800	2.1	18500	31500	13000	1.7
Ground nut	Nutrient management	Application of Oxyflurofen 23.5EC@200ml/ha two days after sowing	05	1.0	13.9	11.4	21.9	No. of Pods/plant-33.7 No. of branches-8.7	No. of Pods/plant-27.3 No. of branches-6.8	18000	55100	37100	1.48	16890	44900	27600	1.62
Rice	Varietal demonstration	Popularization of improved drought tolerant variety of paddy *CR Borodhan-2*	05	1.0	38.15	32.59	17.0	No. of tillers-13.57 No. of grains/panicle -164.69	No. of tillers-16.87 No. of grains/panicle -151.63	21000	46500	25500	1.82	18500	45000	26500	1.69
Sesamum	Varietal demonstration	Performance of improved variety of Sesamum *Nirmala*	05	1.0	4.96	3.8	29.7	**No. of capsules/plant -15.8 1000 seed wt 3.24**	**No. of capsules/plant 17.2 1000 seed wt** 2.92	18000	52000	34000	1.52	15600	42000	26400	1.59
Greengram	Micronutrient management	Soil application of $ZnSO_4$ @25 kg/ha, Borax@10kg/ha, TO2-seed treatment with Rhizobium culture @200gm/10kg seed and soil test based fertilizer	05	1.0	7.5	6.8	15.3	**No. of pods/plant** 19.4 **Seed weight (g)** 27.6	**No. of pods/plant** 15.3 **Seed weight (g)** 23.3	14500	48000	33500	1.43	12000	36000	24000	1.5
Pigeon pea	Nutrient management	Application Emmamectin benzoate @ 11 gm a.i./ha @ 0.4 ml/liter of water & Installation of pheromone trap @ 12/ha. For pest monitoring and mass trapping	05	1.0	14.8	10.6	39.6	No of infected pod/plant -12 % of insect infestation-9	No of infected pod/plant-56 % of insect infestation -34	25,400	74,000	48600	2.7	22,300	53,000	30700	1.8

Paddy	Disease management	Demonstration on combine fungicide Tricyclozole +Propiconazole) 52.5 SC @ 4ml /10 lit of water at 15 days interval	05	1.0	36.6	27.5	24.8	Disease incidence %- 5	Disease incidence %- 16	20,000	56,730	36730	1.9	18,000	42,625	24625	1.4
Greengram	Disease management	IPM for YMV management. Application of Ozoneem @ 2.5 ml/lit of water twice at 15 DAS & 30 DAS Fixation of yellow sticky trap @ 50 /ha Need based Foliar spraying of Thiomethoxam 25% WG @ 0.6gm per liter of water	05	1.0	**6.5**	**4.7**	27.69	No of affected plan/M2- 2 % of infestation- 2	No of affected plan/M2- 9 % of infestation- 13	9,000	32,500	**23,500**	2.6	8,000	23,500	15,500	1.9
Chilli	Pest management	Suitable management schedule for mite infestation in Chilli. Removal of affected plant part + Spraying of water to break the webs Application of Fenazaquin 10 EC @ 1 ml/lit. at 7-8 days interval. Application of Fenpyroximate 5 EC @1 ml/	05	1.0	47	32	31	% of infestation- 4 No of plant affected/m2- 1	% of infestation- 12 No of plant affected/m2- 3	63,500	2,35,000	171500	4.28	53,000	1,60,000	107000	2.89

	Total			

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. Of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
quail	Production management	: Rearing of Japanese quail , Verities: *Cari uttam* (Broiler quail) and Cari pearl (Egg type quail) in a shed area of $1m^2$/5 bird and fed quail with 20 gm of feed supplements/day	05		Annual Egg Production (no.)-280	Annual Egg Production (no.)-90	211	Avg. Body weight gain (g/day)-4.16	Avg. Body weight gain (g/day)-4.05	2800	6000	3200	2.14	2500	5400	2900	1.86
Poultry																	
Rabbitry																	
cattle	Production management	Feeding to lactating cow with 20 kg Maize& Hybrid Napier (Cut after 2 months of sowing), supplemented with 1kg of concentrate mixture daily	05		Avg. milk production (L/day) - 5.45	Avg. milk production (L/day)-4.15	Milk prod.-31.32 B. wt gain-29.14	Avg. Body weight gain (g/day)-67.8 Infection rate/3 month -1	Avg. Body weight gain (g/day)-52.5 Infection rate/3 month-3	5200	13500	8300	2.59	4000	8200	4200	2.05

Sheep and goat	Production management	Administration of deworming drug fenbendazole (5mg/kg bwt) orally for once for 3 months with supplementary feeding @ 100 gm concentrate feed and 10 gm mineral mixture for lactating goat and vaccinate with PPR, entero toxemia and goat pox vaccine (1 ml/sc for each vaccine**)**	05		Milk production (L/day)-1.6	Milk production (L/day)-1.1	B.wt gain-44 Milk prod**.-45.45**	Avg. Body weight gain (g/day)-55 Infection rate (%)-11	Avg. Body weight gain (g/day)-38 Infection rate (%**)-23**	1900	6280	4380	3.30	1200	3385	2185	2.82

Duckery	Production management	: Rearing of duck (*Khaki Cambell*) with a shed area of 2 ft^2/duck with supplementary feeding @ 50-100 gm duck/day and vaccinate with i) Duck cholera-1ml/sc at 3-4 wk ii) Duck plague-1ml/sc at 8-12 wk.	05		Annual Egg Production (no.)-232	Annual Egg Production (no.)-140	B.Wt gain-17.54 Egg prod-21.31	Avg. Body weight gain (g/day)-6.54 Mortality rate (%)-9	Avg. Body weight gain (g/day)-5.23 Mortality rate (%)-15	455	1435	980	3.15	300	840	540	2.8
Others (pl.specify)																	
Total																	

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

** BCR= GROSS RETURN/GROSS COST

Fisheries

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

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

** BCR= GROSS RETURN/GROSS COST

Other enterprises

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

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

** BCR= GROSS RETURN/GROSS COST

Women empowerment

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

Farm implements and machinery

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

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

Demonstration details on crop hybrids

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

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

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1.	Onion	Farmers were enthusiastically adopted front line demonstration technology in their land. They learned and applied sulfer and Boron in their land .
2.	Banana	Farmers were enthusiastically adopted front line demonstration technology in their land. They learned and applied required amount NPK in their land .
3.	Greengram	Farmers were enthusiastically adopted front line demonstration technology in their land. They learned and applied VAM in Greengram in their land .
4.	Maize	Farmers were enthusiastically adopted front line demonstration technology in their land. They learned and applied Biofertilizer in their land .
5.	Groundnut	Application of Oxyflurofen 23.5EC@200ml/ha two days after sowing shows effective result in weed control and gives better yield.
6.	Greengram	Application of $ZnSO_4$ soil application @25 kg/ha, Borax@10kg/ha, seed treatment with Rhizobium culture @200gm/10kg seed and soil test based fertilizer gives better result than FP
7.	Sesame	Spacing 25cmx10cm with RDF and prophylactic plant protection measure seed rate 10kg/ha preferable and widely accepted by farmers of Kalahandi
8.	Paddy	For varietal evaluation basis Short duration (120 days) drought tolerant, tolerant to BLB, rainfed upland paddy, Avg. yield 40 q/ha.

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training				
3.	Media coverage				
4.	Training for extension functionaries				

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2017 and Rabi 2017-18:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1	Groundnut	TAG 24	13.75	15.2	14.6	17	Groundnut (ICGV 91114) Application Gypsum 250kg/ha in the soil during final ploughing Line sowing of seeds (30cmx15 cm) Seed treatment with Vita vax Power (Carboxin) @ 5 gm/kg of seed before sowing. Application of Imazethapyr @ 750 ml/ha as (20-30 days after sowing based on weed density) as post emergence . First hoeing to be done three weeks after sowing and the second one before commencement of flowering. Foliar application of Boron @1kg/ha at pre-flowering stage. To control early leaf spot spraying of Tebuconazol 25.9% EC @ 1ml/lit and for bud necrosis spraying	50	40	16.5	14.8	15.65	2.90	6.70	-8.62

							of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water Or Acetamiprid 20% S.P. @ 100 gm/liter of water								

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.	Ground nut (ICGV9114) Application Gypsum 250kg/ha in the soil during final ploughing Line sowing of seeds (30cmx15 cm) Seed treatment with Vita vax Power (Carboxin) @ 5 gm/kg of seed before sowing. Application of Imazethapyr @ 750 ml/ha as (20-30 days after sowing based on weed density) as post emergence . First hoeing to be done three weeks after sowing and the second one before commencement of flowering. Foliar application of Boron @1kg/ha at pre-flowering stage. To control early leaf spot spraying of Tebuconazol 25.9% EC @ 1ml/lit and for bud necrosis spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water Or Acetamiprid 20% S.P. @ 100 gm/liter of water	23600	68750	45150	2.91	24500	78250	53750	3.19

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1.	Groundnut (ICGV 91114)	1565	250	50	400	250	next season farming	60

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	Application of Gypsum 250kg/ha in the soil during final ploughing Line sowing of seeds (30cmx15 cm) Seed treatment with Vita vax Power (Carboxin) @ 5 gm/kg of seed before sowing. Application of Imazethapyr @ 750 ml/ha as (20-30 days after sowing based on	Yes, the technology and variety is perfectly suitable to the farming system	Suitable variety and weed management and micronutrient application for better pod development	The variety and technical intervention is affordable by the farmers, but in few cases the high price of critical input (weedicide) is somewhat not affordable by all the farmers.	No such cases has been recorded	Yes, the technology and variety is acceptable by the villagers/beneficiries	

	weed density) as post emergence . Foliar application of Boron @1kg/ha at pre-flowering stage. To control early leaf spot spraying of Tebuconazol 25.9% EC @ 1ml/lit and for bud necrosis spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water Or Acetamiprid 20% S.P. @ 100 gm/liter of water						

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
High yielding variety (q/ha)	16.5	15.2	Farmers have experienced high yield from ICGV91114 over local cultivar. The shelling turnover percentage is more than the existing variety and ICGV91114 is highly preferred due to high oil content then the local cultivar.
Haulm yield (Q/ha)	24.75	18.5	
Average shelling turnover (%)	75	70	
Oil content (%)	48	43	

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Distribution of Critical input	03.07.2017 Dumria, Bhawanipatna	50
2.	Monitoring the sowing status of the crop	19.07.2017 Barfa, Bhawanipatna	50
3.	Distribution of critical input (Weedicide)	14.08.2017 Dumria, Barfa, Bhawanipatna	50
4.	Monitoring the crop growth	02.09.2017 Dumria, Barfa, Bhawanipatna	50
5.	Field visit to monitor insect pest infestation	17.09.2017 Dumria, Barfa, Bhawanipatna	50
6.	To monitor peg initiation and pod development	14.10.2017 Dumria, Barfa, Bhawanipatna	50
7.	Record keeping on yield and other related parameters	23.10.2017 Dumria, Barfa, Bhawanipatna	80

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

H. Farmers' training photographs

I. Quality ActionPhotographs 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.)
Ground nut	i) Critical input	2,96,000	2,96,000	Nil
	ii) TA/DA/POL etc. for monitoring	10,000	10,000	Nil
	iii) Extension Activities (Field day)	30,000	30,000	Nil
	iv)Publication of literature	4,000	4,000	Nil
	Total	3,40,000	3,40,000	Nil

K. List of Farmer under FLD (Crop wise)

Crop1-Groundnut Kharif

Name of farmer	Father'sname	Village	Block	Mobile No.	Email ID	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/ No)	Recommendations based on soil test value	Brief technology intervention	Variety	Seed quantity used	Demo. Yield (q/ha)			Yield of local check q/ha	% increase
													H	L	A		
						Latitude	Longitude										
Dhanjaya Bhoi	Ahaliya Bhoi	Barafa	Bhawanipatna	--	--	$82^0$59' 14"	$20^0$07' 24"	Yes	20:40:20	Application Gypsum 250kg/ha in the soil during final ploughing Line sowing of seeds (30cmx15 cm) Seed treatment with Vita vax Power (Carboxin) @ 5 gm/kg of seed before sowing. Application of Imazethapyr @ 750 ml/ha as (20-30 days after sowing based on weed density) as post emergence . Foliar application	ICGV-91114	125kg seed/ha	16.5	14.8	15.8	13.75	14.9

										of Boron @1kg/ha at pre-flowering stage. To control early leaf spot spraying of Tebuconazol 25.9% EC @ 1ml/lit and for bud necrosis spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water Or Acetamiprid 20% S.P. @ 100 gm/liter of water							
Kailasha Bhoi	Rameshwar Bhoi	Barafa	Bhawanipatna	9938595719	--	82^{0}59’14”	20^{0}07’24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.2	13.75	10.5
Krushnachandra Seth	Arjun Seth	Barafa	Bhawanipatna	--	--	82^{0}59’14”	20^{0}07’24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.5	13.75	20
Ranjit Kumar Mishra	Sudarshan Mishra	Barafa	Bhawanipatna	--	--	82^{0}59’21”	20^{0}08’13”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.1	13.75	17.1
Pramod Kumar Bhoi	Sudarshan Bhoi	Barafa	Bhawanipatna	--	--	82^{0}59’14”	20^{0}07’24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.1	13.75	17.1
Brusha Bhanu Bhoi	Sudarshan Bhoi	Barafa	Bhawanipatna	9938711773	--	82^{0}59’04”	20^{0}08’05”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.2	13.75	10.5
Parameswar Sahu	Kandarpa Sahu	Barafa	Bhawanipatna	8018414602	--	82^{0}59’14”	20^{0}07’24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.4	13.75	12
Sudhanshu Sahu	Parameswar Sahu	Barafa	Bhawanipatna		--	82^{0}59’14”	20^{0}07’24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.5	13.75	20
Pitambar Sahu	Ramchandra Sahu	Barafa	Bhawanipatna		--	82^{0}59’14”	20^{0}07’24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	14.8	13.75	7.64
Seta Harijan	Ramchandra Sahu	Barafa	Bhawanipatna	9777136498	--	82^{0}59’21”	20^{0}08’13”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.9	13.75	15.6
Kumuda kanta Sahu	Dukhishyam Sahu	Barafa	Bhawanipatna	--	--	82^{0}59’21”	20^{0}08’13”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.4	13.75	12
Laxmi Narayan	Jadumani Sahu	Barafa	Bhawanipatna	7894363689	--	82^{0}59’14”	20^{0}07’24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.2	13.75	17.8

Sahu																	
Pramila Sahu	Nitya Sahu	Barafa	Bhawanipatna	9178243266	--	82^{0}59’21”	20^{0}08’13”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.5	13.75	12.7
Dhanu Nag	Banabas Nag	Barafa	Bhawanipatna	--	--	82^{0}59’21”	20^{0}08’13”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15	13.75	9.09
Labani Sahu	Mohan Sahu	Barafa	Bhawanipatna	9938942502	--	82^{0}59’21”	20^{0}08’13”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.2	13.75	10.5
Akbar Chhtria	Parameswar Chhatria	Barafa	Bhawanipatna	9078281745	--	82^{0}00’08”	20^{0}08’15”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.1	13.75	9.82
Dhania Mahananda	Madhu Mahannda	Barafa	Bhawanipatna	9938530269	--	82^{0}00’08”	20^{0}08’15”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.1	13.75	9.82
Dilip Harijan	Gicha Harijan	Barafa	Bhawanipatna	8658087013	--	82^{0}00’08”	20^{0}08’15”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.4	13.75	19.3
Niranan Sahu	Sudam Sahu	Barafa	Bhawanipatna	9938694288	--	82^{0}59’10”	20^{0}08’03”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	14.8	13.75	7.64
Gunu Barik	Tariani Barik	Barafa	Bhawanipatna	9938694288	--	82^{0}59’04”	20^{0}08’05”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.2	13.75	10.5
Dambarudhar Barik	Tariani Barik	Barafa	Bhawanipatna	--	--	82^{0}59’04”	20^{0}08’05”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	14.8	13.75	7.64
Mayadhar Majhi	Bajarsingh Majhi	Barafa	Bhawanipatna	--	--	82^{0}59’04”	20^{0}08’05”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.2	13.75	10.5
Chaturbhuja Majhi	Udi Majhi	Barafa	Bhawanipatna	9668412378	--	82^{0}59’04”	20^{0}08’05”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.5	13.75	12.7
Ganesh Sahu	Tulasha Sahu	Barafa	Bhawanipatna	8018406322	--	82^{0}59’14”	20^{0}07’24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.2	13.75	17.8
Tebha Sahu	Chitramani Sahu	Barafa	Bhawanipatna	7894233989	--	82^{0}59’14”	20^{0}07’24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.9	13.75	15.6
Bira Kishor Naik	Krutabas Naik	Barafa	Bhawanipatna	--	--	82^{0}59’10”	20^{0}08’03”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.2	13.75	17.8
Denga Naik	Sadhu Naik	Barafa	Bhawanipatna	--	--	82^{0}59’04”	20^{0}08’05”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.4	13.75	12
Rajani Kanta Sahu	Hrushikesh Sahu	Barafa	Bhawanipatna	8018524564	--	82^{0}59’21”	20^{0}08’13”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16	13.75	16.4
Sudarsan Majhi	Jagatram Majhi	Barafa	Bhawanipatna	--	--	82^{0}59’10”	20^{0}08’03”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.3	13.75	11.3
Binod Sahu	Belamati Sahu	Barafa	Bhawanipatna	9777123613	--	82^{0}00’08”	20^{0}08’15”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.8	13.75	14.9
Nuru Naik	Bahadur Naik	Barafa	Bhawanipatna	9668740402	--	82^{0}59’14”	20^{0}07’24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.4	13.75	19.3
Bhakta ram Sahu	Pitabas Sahu	Barafa	Bhawanipatna	9668205743	--	82^{0}59’14”	20^{0}07’24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.2	13.75	10.5
Rusahari Mahananda	Chndramani Mahananda	Barafa	Bhawanipatna	--	--	82^{0}00’08”	20^{0}08’15”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.5	13.75	12.7
Brahma Harijan	Munim Harijan	Barafa	Bhawanipatna	--	--	82^{0}00’08”	20^{0}08’15”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	14.8	13.75	7.64
Keshab Malik	Budu Malik	Barafa	Bhawanipatna	9178629017	--	82^{0}59’10”	20^{0}08’03”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	14.5	13.75	5.45

Bhuleswar Shau	Dukhishyam Sahu	Barafa	Bhawanipatna	7894032013	--	82^{0}59’ 21”	20^{0}08’ 13”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.1	13.75	9.82
Jatindra Sahu	Dukhishyam Sahu	Barafa	Bhawanipatna	9937554813	v	82^{0}59’ 21”	20^{0}08’ 13”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.2	13.75	17.8
Garudadhwaja Sahu	Dukhishyam Sahu	Barafa	Bhawanipatna	8018414602		82^{0}59’ 21”	20^{0}08’ 13”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	14.8	13.75	7.64
Gajaman Harijan	Asal Harijan	Barafa	Bhawanipatna	--		82^{0}59’ 04”	20^{0}08’ 05”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	14.5	13.75	5.45
Dhubleswar Bhoi	Deba Bhoi	Barafa	Bhawanipatna	--		82^{0}59’ 14”	20^{0}07’ 24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.8	13.75	14.9
Kaliahati Naik	Bansi Naik	Barafa	Bhawanipatna	--	--	82^{0}59’ 04”	20^{0}08’ 05”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.2	13.75	10.5
Udhaba Rana	Goutam Rana	Barafa	Bhawanipatna	--	--	82^{0}00’ 08”	20^{0}08’ 15”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	14.8	13.75	7.64
Mindhar Majhi	Chandra Majhi	Barafa	Bhawanipatna	--	--	82^{0}00’ 08”	20^{0}08’ 15”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.1	13.75	17.1
Arun Kumar Sahu	Labani Sahu	Barafa	Bhawanipatna	--	--	82^{0}00’ 08”	20^{0}08’ 15”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	14.5	13.75	5.45
Rebati Sahu	Rajani Sahu	Barafa	Bhawanipatna	--	--	82^{0}59’ 21”	20^{0}08’ 13”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	15.1	13.75	9.82
Baidyanath Majhi	Khage Majhi	Barafa	Bhawanipatna	--	--	82^{0}59’ 10”	20^{0}08’ 03”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	14.8	13.75	7.64
Tankadhar Majhi	Jagatram Majhi	Barafa	Bhawanipatna	--	--	82^{0}59’ 10”	20^{0}08’ 03”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	14.5	13.75	5.45
Dulamani Bhoi	Rameswar Bhoi	Barafa	Bhawanipatna	8658420910	--	82^{0}59’ 14”	20^{0}07’ 24”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.4	13.75	19.3
Damrudhar Majhi	Basanta Majhi	Barafa	Bhawanipatna	9938257895	--	82^{0}00’ 08”	20^{0}08’ 15”	Yes	20:40:20	-do-	ICGV-91114	125kg seed/ha	16.5	14.8	16.2	13.75	17.8
Thakur Majhi	Sitaram Majhi	Barafa	Bhawanipatna	--	--	82^{0}00’ 08”	20^{0}08’ 15”	Yes	20:40:20	-do-	ICGV-91114						

Cluster Frontline Demonstration on Groundnut (Rabi)

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P

1.	Groundnut	TAG 24	17.5	19.5	17.8	20	Groundnut (ICGV 91114) Application Gypsum 250kg/ha in the soil during final ploughing Line sowing of seeds (30cmx15 cm) Seed treatment with Vita vax Power (Carboxin) @ 5 gm/kg of seed before sowing. Application of Imazethapyr @ 750 ml/ha as (20-30 days after sowing based on weed density) as post emergence . First hoeing to be done three weeks after sowing and the second one before commencement of flowering. Foliar application of Boron @1kg/ha at pre-flowering stage. To control early leaf spot spraying of Tebuconazol 25.9% EC @ 1ml/lit and for bud necrosis spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water Or Acetamiprid 20% S.P. @ 100 gm/liter of water	38	30	19.1	17.5	18.3	-1.2	0.5	-1.7

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.	Ground nut (ICGV9114) Application Gypsum 250kg/ha in the soil during final ploughing Line sowing of seeds (30cmx15 cm) Seed treatment with Vita vax Power (Carboxin) @ 5 gm/kg of seed before sowing. Application of Imazethapyr @ 750 ml/ha as (20-30 days after sowing based on weed density) as post emergence . First hoeing to be done three weeks after sowing and the second one before commencement of flowering. Foliar application of Boron @1kg/ha at pre-flowering stage. To control early leaf spot spraying of Tebuconazol 25.9% EC @ 1ml/lit and for bud necrosis spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water Or Acetamiprid 20% S.P. @ 100 gm/liter of water	29500	87500	59500	2.9	30000	91500	61500	3.05

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1.	Groundnut (ICGV 91114)	1830	100	50	300	350	For kharif farming	55

D. Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	Application Gypsum 250kg/ha in the soil during final ploughing Line sowing of seeds (30cmx15 cm) Seed treatment with Vita vax Power (Carboxin) @ 5 gm/kg of seed before sowing. Application of Imazethapyr @ 750 ml/ha as (20-30 days after sowing based on weed density) as post emergence . Foliar application of Boron @1kg/ha at pre-flowering stage. To control early leaf spot spraying of Tebuconazol 25.9% EC @ 1ml/lit and for bud necrosis spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water Or Acetamiprid 20% S.P. @ 100 gm/liter of water	Yes, the technology and variety is perfectly suitable to the farming system	Suitable variety and disease management and micronutrient application for better pod development	The variety and technical intervention is affordable by the farmers, but in few cases the high price of critical input (weedicide) is somewhat not affordable by all the farmers.	No such cases has been recorded	Yes, the technology and variety is acceptable by the villagers/beneficiaries	--

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
High yielding variety (q/ha)	17.5	15.2	Farmers have experienced high yield from ICGV91114 over local cultivar. The shelling turnover percentage is more than the existing variety and ICGV91114 is highly preferred due to high oil content then the local cultivar.
Haulm yield (Q/ha)	24.5	19.9	
Average shelling turnover (%)	75	70	
Oil content (%)	48	43	

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
8.	Distribution of Critical input	10.11.2017, Dorapadar, Narla	35
9.	Monitoring the sowing status of the crop	21.11.2017, Dorapadar, Narla	35
10.	Distribution of critical input (Weedicide)	19.12.2017, Dorapadar, Narla	30
11.	Monitoring the crop growth	25.01.2018, Dorapadar, Narla	32
12.	Field visit to monitor insect pest infestation	10.02.2018, Dorapadar, Narla	28
13.	Sr, Scientist, ATARI, Kolkata visited CFLD Oilsed	14.02.2018, Dorapadar, Narla	40
14.	To monitor peg initiation and pod development	17.02.2018, Dorapadar, Narla	32
15.	Record keeping on yield and other related parameters	23.02.2018, Dorapadar, Narla	30

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

9. Farmers' training photographs

10. Quality Photographs of field visits/field days and technology demonstrated.

11. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Ground nut	i) Critical input	2,13,750	2,42,462	Rs. **2,42,462/-**is utilized under CFLD oilseed (Groundnut) during Rabi, 2018 so there is need for release of fund of **Rs.28,712/-** for payment of the critical inputs under the programme.
	ii) TA/DA/POL etc. for monitoring	Nil	--	
	iii) Extension Activities (Field day)	Nil	--	
	iv)Publication of literature	Nil	--	
	Total	2,13,750	2,42,462	

12. List of Farmer under FLD (Groundnut)

Name of farmer	Father's name	Village	Block	Mobile No.	Email ID	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Recommendations based on soil test value	Brief technology intervention	Variety	Seed quantity used	Demo. Yield (q/ha)			Yield of local check q/ha	% increase
						Latitude	Longitude						H	L	A		
Anadi Padhan	Chaitanya Padhan	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40	Application Gypsum 250kg/ha in the soil during final ploughing Line sowing of seeds (30cmx15 cm) Seed treatment with Vita	ICGV-91114		19.1	17.5	18.5	17.5	5.71
Chaitanya Padhan	Uchhaba Padhan	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	1832	17.5	4
Dhanu Padhan	Bishnu Padhan	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.4	17.5	5.14
Mukunda Padhan	Shiba Padhan	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.2	17.5	4

Nilamani Padhan	Bishnu Padhan	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40	vax Power (Carboxin) @ 5 gm/kg of seed before sowing. Application of Imazethapyr @ 750 ml/ha as (20-30 days after sowing based on weed density) as post emergence . Foliar application of Boron @1kg/ha at pre-flowering stage. To control early leaf spot spraying of Tebuconazol 25.9% EC @ 1ml/lit and for bud necrosis spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water Or Acetamiprid 20% S.P. @ 100	ICGV-91114		19.1	17.5	17.5	17.5	0
Janaka Padhan	Nakula Padhan	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.0	17.5	2.86
Lalit Majhi	Ghasiram Majhi	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.9	17.5	8
Anta Padhan	Pitambar Padhan	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.2	17.5	4
Pitambar Padhan	Shiba Padhan	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	19.1	17.5	9.14
Narendra Padhan	Trilochan Padhan	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	19.0	17.5	8.57
Durjyodhan Padhan	Trilochan Padhan	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.8	17.5	7.43
Daya Padhan	Trilochan Padhan	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.5	17.5	5.71
Bijay Padhan	Trilochan Padhan	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.4	17.5	5.14
Rukdhar Majhi	Bhuja Majhi	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	17.7	17.5	1.14
Debarchan Majhi	Bhuja Majhi	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	17.9	17.5	2.29
Tanu Majhi	Bhagaban a Majhi	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	17.5	17.5	0
Gokula Majhi	Sagri Majhi	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.0	17.5	2.86

Srihari Majhi	Guman Majhi	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40	gm/liter of water	ICGV-91114		19.1	17.5	19.0	17.5	8.57
Benu Majhi	Shankar Majhi	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.9	17.5	8
Bama Majhi	Shankar Majhi	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.2	17.5	4
Purundhar Majhi	Bada Majhi	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.4	17.5	5.14
Kedar Majhi	Nartama Majhi	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	17.9	17.5	2.29
Gobardhan Majhi	Nartama Majhi	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.0	17.5	2.86
Baikuntha Majhi	Pabitra Majhi	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	17.8	17.5	1.71
Kandarpa Padhan	Rabananda Majhi	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	17.5	17.5	0
Abhimanyu Majhi	Duchan Majhi	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	17.9	17.5	2.29
Rebananda Padhan	Bholanath Padhan	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.0	17.5	2.86
Nalini Padhan	Narendra Padhan	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.0	17.5	2.86
Sadhabi Padhan	Ananti Padhan	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.1	17.5	3.43
Sukanti Padhan	Daya Padhan	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.7	17.5	6.86

Rebati Majhi	Nishamani Majhi	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	19.0	17.5	8.57
Parbati Pradhan	--	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.8	17.5	7.43
Satyanarayan Majhi	--	Dorapadar	Narla	--	--	20°3'45"	83°20'27"	Yes	20:40:40		ICGV-91114		19.1	17.5	17.5	17.5	0
Ajit kumar Naik	Padma Charan Naik	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.1	17.5	3.43
Jagjiban naik	Gandadhar Naik	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.5	17.5	5.71
Ranjit Naik	Padma charan Naik	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.9	17.5	8
Padmacharan Naik	Gangadhar Naik	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.9	17.5	8
Jatindra Naik	Gandadhar Naik	Dorapadar	Narla	--	--	20°3'40"	83°20'50"	Yes	20:40:40		ICGV-91114		19.1	17.5	18.5	17.5	5.71

Cluster Frontline Demonstration on Pigeon pea (*Kharif* 2017)

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology Demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1.	Pigeon pea	Maruti	10.8	9.96	4.45	15.0	ICPL 87119 Line sowing of seed with spacing 90cmx60cm Seed inoculation with Rhizobium culture (20gm per kg of seeds) Application of Pendimethalin (0.75 kg ai/ha) as pre- emergence (3days after sowing of seed) followed by two hand weeding after 21 DAS & 45 DAS to control weed population. Application of Delta+Triazophous@1lit/ha to control Aphid/Thrip population.	70	50	14.0	11.8	12.9	2.94 q	8.45 q	-2.1 q

							Spraying of Azadirachtin 0.15%@ 1.5 Lit./ ha + Flubendiamide 48 SC @ 200 ml /h (First spraying at 50% flowering and second 15-20 days after 1ST spraying) to control pod borer infestation. Spraying of plant hormone (planofix) 4ml/15lit of water at pre-flowering stage								

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1.	ICPL 87119 Line sowing of seed with spacing 90cmx60cm Seed inoculation with Rhizobium culture (20gm per kg of seeds) Application of Pendimethalin (0.75 kg ai/ha) as pre- emergence	22650	43200	20550	1.9	24200	51600	27400	2.1

	(3days after sowing of seed) followed by two hand weeding after 21 DAS & 45 DAS to control weed population. Application of Delta+Triazophous@1lit/ha to control Aphid/Thrip population. Spraying of Azadirachtin 0.15%@ 1.5 Lit./ ha + Flubendiamide 48 SC @ 200 ml /h (First spraying at 50% flowering and second 15-20 days after 1ST spraying) to control pod borer infestation. Spraying of plant hormone (planofix) 4ml/15lit of water at pre-flowering stage								

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)

1.	Pigeon pea , ICPL 87119	1290	50	40	100	190	for next season farming and house expenses	90

D. Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	ICPL 87119 Line sowing of seed with spacing 90cmx60cm Seed inoculation with Rhizobium culture (20gm per kg of seeds) Application of Pendimethalin (0.75 kg ai/ha) as pre- emergence (3days after sowing of seed) followed by two hand weeding after 21 DAS & 45 DAS to control weed population. Application of Delta+Triazophous@1lit/ha to control Aphid/Thrip	Yes, the variety and IPM technology is perfectly suitable to the farming system	Due to its potential yield, more no of pod per plant than the locally available cultivars. That's why this variety is liked by the farmers	It is low water intake plant and cost of cultivation is very much marginal.	No such cases has been recorded	Yes, the technology and variety is acceptable by the villagers/beneficiaries	--

	population. Spraying of Azadirachtin 0.15%@ 1.5 Lit./ ha + Flubendiamide 48 SC @ 200 ml /h (First spraying at 50% flowering and second 15-20 days after 1ST spraying) to control pod borer infestation. Spraying of plant hormone (planofix) 4ml/15lit of water at pre-flowering stage						

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
High yielding variety (q/ha)	12.9	9.9	Pigeon pea ICPL 87119 is liked by the farmers due to its higher productivity, vigorous crop growth, more no of pod per plant and moreover this HYV is tolerant to fusarium wilt.
Avg. No.of Pod/Plant	146	121	
100seed weight (gm)	51	47	

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training cum critical input distribution to the beneficiaries	06.07.2017, Boria, Kesinga Sanachiching, Narla	70
2.	Scientist visit to farmers field to monitor the crop condition	11.08.2017, Kesinga & Narla	50
		06.09.2017, & 26.09.2017 Boria, Kesinga	30
		09.09.2017, Sanachiching, Narla	20
		04.10.2017, 28.10.2017 Sanachiching, Narla 06.10.2017, 30.10.2017 Boria, Chicharla, Kesinga	30
3.	Scientist visit to farmers field to collect biometric observation	07.11.2017, 25.11.2017 Sanachiching, Narla	20
		01.12.2017, 15.01.2018, 20.01.2018 Boria, Kesinga	30
4.	Scientist visit to farmers field to collect yield related data	23.01.2018, 25.01.2018, 19.02.2018 Sanachiching, Narla	20
		13.02.2018, 14.02.2018, 22.02.2018, 26.02.2018 Boria, Chicharla,Kesinga	25
5.	Field day and farmers feed back	20.01.2018, Boria, Kesinga	100

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

9. Farmers' training photographs

10. Quality Photographs of field visits/field days and technology demonstrated.

11. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input	3,31,475	3,31,475	Nil
	ii) TA/DA/POL etc. for monitoring	5,000	5,000	Nil
	iii) Extension Activities (Field day)	21,948	21,948	Nil
	iv)Publication of literature	15,377	15,377	Nil
	Total	3,73,800	3,73,800	Nil

12. List of Farmer under FLD (Crop wise)

a) Crop1

Name of farmer	Village	Block	Mobile No.	Email ID	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Recommendations based on soil test value	Brief technology intervention	Variety	Seed quantity used	Demo. Yield (q/ha)			Yield of local check q/ha	% increase
					Latitude	Longitude						H	L	A		
Alakha Sahu	Boria, Kesinga	Kesinga	7894659218	--	83°17'22"	20°13'04"	Yes	40:20:20	Line sowing of seed with spacing 90cmx60cm Seed inoculation with Rhizobium culture (20gm per kg of seeds) Application of Pendimethalin (0.75 kg ai/ha) as pre-emergence (3days after sowing of seed) followed by two hand weeding after 21 DAS & 45 DAS to control weed population. Application of Delta+Triazophous@ 1lit/ha to control Aphid/Thrip population. Spraying of Azadirachtin 0.15%@ 1.5 Lit./ ha + Flubendiamide 48 SC @ 200 ml /h (First spraying at 50% flowering and second 15-20 days after 1ST spraying) to control pod borer infestation. Spraying of plant horone (planofix)	PRG - 176	16	14.0	11.8	13.5	9.96	26.2

									4ml/15lit of water at pre-flowering stage							
Jujesh Sahu	Boria, Kesinga	Kesinga	--	--	83°17'22"	20°13'04"	Yes	40:20:20	-do-	PRG - 176	08	14.0	11.8	12.8	9.96	22.2
Chairman Sahu	Boria, Kesinga	Kesinga	--	--	83°17'22"	20°13'04"	Yes	40:20:20	-do-	PRG - 176	08	14.0	11.8	13.8	9.96	27.8
Pradeep Kumar Sahu	Boria, Kesinga	Kesinga	--	--	83°17'22"	20°13'04"	Yes	40:20:20	-do-	PRG - 176	08	14.0	11.8	14	9.96	28.9
Khageswar Sahu	Boria, Kesinga	Kesinga	--	--	83°17'25"	20°13'05"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	13.5	9.96	26.2
Saroj Chandra Sahu	Boria, Kesinga	Kesinga	--	--	83°17'25"	20°13'05"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	12.8	9.96	22.2
Chittaranjan Bhoi	Boria, Kesinga	Kesinga	--	--	83°17'22"	20°13'04"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	13.7	9.96	27.3
Bharat kumar Pradhan	Boria, Kesinga	Kesinga	--	--	83°18'22"	20°13'09"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	12.9	9.96	22.8
Abadhut Podh	Boria, Kesinga	Kesinga	--	--	83°17'22"	20°13'04"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	13.7	9.96	27.3
Bharat Podh	Boria, Kesinga	Kesinga	--	--	83°18'22"	20°13'09"	Yes	40:20:20	-do-	PRG - 176	12	14.0	11.8	12.5	9.96	20.3
Pankaja Bagarty	Boria, Kesinga	Kesinga	--	--	83°18'22"	20°13'09"	Yes	40:20:20	-do-	PRG - 176	12	14.0	11.8	13.4	9.96	25.7
Hemanta Bag	Boria, Kesinga	Kesinga	--	--	83°18'22"	20°13'09"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	13.5	9.96	26.2
Tapibara Swain	Boria, Kesinga	Kesinga	9938090828	--	83°17'42"	20°14'35"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	13.2	9.96	24.5
Banabiharoi Sahu	Boria, Kesinga	Kesinga	--	--	83°18'02"	20°15'11"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	13.4	9.96	25.7
Padman Sahu	Boria, Kesinga	Kesinga	--	--	83°18'02"	20°15'11"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	13.5	9.96	26.2
Garuda Majhi	Nagupalla	Kesinga	--	--	83°24'25"	20°12'10"	Yes	40:20:20	-do-	PRG - 176	08	14.0	11.8	12.4	9.96	19.7

Bikram Majhi	Nagupalla	Kesinga	--	--	83°24'25"	20°12'10"	Yes	40:20:20	-do-	PRG - 176	08	14.0	11.8	13.5	9.96	26.2
Rudra Prasad Bag	Nagupalla	Kesinga	--	--	83°24'25"	20°12'10"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	14	9.96	28.9
Kambhupani Bag	Nagupalla	Kesinga	--	--	83°24'25"	20°12'10"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	12.8	9.96	22.2
Jagabandhu Suna	Nagupalla	Kesinga	--	--	83°24'25"	20°12'10"	Yes	40:20:20	-do-	PRG - 176	08	14.0	11.8	14	9.96	28.9
Dolamani Majhi	Nagupalla	Kesinga	--	--	83°17'51"	20°14'40"	Yes	40:20:20	-do-	PRG - 176	12	14.0	11.8	12.8	9.96	22.2
Srikanta Pradhan	Nagupalla	Kesinga	--	--	83°17'55"	20°14'42"	Yes	40:20:20	-do-	PRG - 176	12	14.0	11.8	13.9	9.96	28.3
Rosan Pradhan	Nagupalla	Kesinga	-	--	83°17'55"	20°14'42"	Yes	40:20:20	-do-	PRG - 176	12	14.0	11.8	13.9	9.96	28.3
Ekadashi Goud	Nagupalla	Kesinga	--	--	83°17'55"	20°14'42"	Yes	40:20:20	-do-	PRG - 176	12	14.0	11.8	13.2	9.96	24.5
Hadibandhu Goud	Chicharla	Kesinga	--	--	83°17'55"	20°14'42"	Yes	40:20:20	-do-	PRG - 176	12	14.0	11.8	13.5	9.96	26.2
Khitish Chandra Bagarty	Chicharla	Kesinga	--	--	83°17'51"	20°14'40"	Yes	40:20:20	-do-	PRG - 176	12	14.0	11.8	12.8	9.96	22.2
Rameswar Sahu	Chicharla	Kesinga	9776621213	--	83°17'51"	20°14'40"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	13.5	9.96	26.2
Trinath Suna	Chicharla	Kesinga	--	--	83°17'51"	20°14'40"	Yes	40:20:20	-do-	PRG - 176	12	14.0	11.8	13.4	9.96	25.7
Trinath Sahu	Chicharla	Kesinga	--	--	83°17'51"	20°14'40"	Yes	40:20:20	-do-	PRG - 176	12	14.0	11.8	12.8	9.96	22.2
Girish Chandra Nayak	Chicharla	Kesinga	--	--	83°18'02"	20°15'11"	Yes	40:20:20	-do-	PRG - 176	12	14.0	11.8	13.1	9.96	24
Sarojini Majhi	Chicharla	Kesinga	--	--	83°18'02"	20°15'11"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	13.8	9.96	27.8
Bishnu Prasad Nayak	Chicharla	Kesinga	--	--	83°18'02"	20°15'11"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	11.9	9.96	16.3

Bharat Chandra Majhi	Chicharla	Kesinga	--	--	83°24'25"	20°20'33"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	13	9.96	23.4
Gima Chandra Majhi	Chicharla	Kesinga	--	--	83°24'25"	20°20'33"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	12.8	9.96	22.2
Durgamadhab Bagarty	Chicharla	Kesinga	--	--	83°24'25"	20°20'33"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	11.8	9.96	15.6
Naukhali Deep	Chicharla	Kesinga	--	--	83°24'25"	20°20'33"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	11.9	9.96	16.3
Brahmadhar Nayak	Chicharla	Kesinga	--	--	83°24'25"	20°20'33"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	12.9	9.96	22.8
Nathuram Nayak	Chicharla	Kesinga	--	--	83°17'52"	20°14'44"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	12.6	9.96	21
Bhola Chhura	Chicharla	Kesinga	--	--	83°17'52"	20°14'44	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	13.1	9.96	24
Dibakar senapati	Chicharla	Kesinga	--	--	83°17'52"	20°14'44	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	12.8	9.96	22.2
Karuna Nag	Chicharla	Kesinga	--	--	83°18'02"	20°15'11"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	11.9	9.96	16.3
Raben Suna	Chicharla	Kesinga	--	--	83°17'42"	20°14'35"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	13.5	9.96	26.2
Bidyadhar Suna	Chicharla	Kesinga	--	--	83°17'42"	20°14'35"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	11.8	9.96	15.6
Tabira Suna	Chicharla	Kesinga	--	--	83°17'42"	20°14'35"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	12.5	9.96	20.3
Ketan odia	Chicharla	Kesinga	--	--	83°17'42"	20°14'35"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	12.4	9.96	19.7
Krushna Chandra Jal	Sanchiching	Narla	--	--	83°18'26"	19°58'20"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	11.8	9.96	15.6
Trinath Jal	Sanchiching	Narla	--	--	83°18'26"	19°58'20"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	11.8	9.96	15.6
Surendra Jal	Sanchiching	Narla	--	--	83°18'26"	19°58'20"	Yes	40:20:20	-do-	PRG - 176	16	14.0	11.8	12.4	9.96	19.7

Thakur Jal	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 2	9.96	18.4
Giridhari Jal	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 8	9.96	22.2
Niranjan Jal	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 7	9.96	21.6
Pankaj Jal	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 4	9.96	19.7
Himanshu Jal	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	13. 5	9.96	26.2
Barik Bhoi	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 8	9.96	22.2
Kurupati Jal	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 9	9.96	22.8
Ganesh Chandra Jal	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 5	9.96	20.3
Raj Goud	Sanchichin g	Narla	--	--	83°18'2 9"	19°58'2 8"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 6	9.96	21
Kshyama Jal	Sanchichin g	Narla	--	--	83°18'2 9"	19°58'2 8"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 4	9.96	19.7
Jaharlal Jal	Sanchichin g	Narla	--	--	83°18'2 9"	19°58'2 8"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 7	9.96	21.6
Ramchandra Jal	Sanchichin g	Narla	--	--	83°18'2 9"	19°58'2 8"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 8	9.96	22.2
Ramanchal Jal	Sanchichin g	Narla	--	--	83°18'2 9"	19°58'2 8"	Yes	40:20:20	-do-	PRG - 176	12	14. 0	11. 8	13. 2	9.96	24.5
Bhul Jal	Sanchichin g	Narla	--	--	83°18'2 9"	19°58'2 8"	Yes	40:20:20	-do-	PRG - 176	12	14. 0	11. 8	12. 4	9.96	19.7
Laxman Jal	Sanchichin g	Narla	--	--	83°18'2 9"	19°58'2 8"	Yes	40:20:20	-do-	PRG - 176	12	14. 0	11. 8	12. 5	9.96	20.3
Mukunda Jal	Sanchichin g	Narla	--	--	83°18'2 9"	19°58'2 8"	Yes	40:20:20	-do-	PRG - 176	12	14. 0	11. 8	14	9.96	28.9

Dushmanta Jal	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	12	14. 0	11. 8	12. 4	9.96	19.7
Shibaram Bhoi	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	12	14. 0	11. 8	12. 4	9.96	19.7
Debarchan Bhoi	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	12	14. 0	11. 8	11. 9	9.96	16.3
Archhu Karuan	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 4	9.96	19.7
Parshu Karuan	Sanchichin g	Narla	--	--	83°18'2 6"	19°58'2 0"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 8	9.96	22.2
Kadam Karuan	Sanchichin g	Narla	--	--	83°18'2 9"	19°58'2 8"	Yes	40:20:20	-do-	PRG - 176	16	14. 0	11. 8	12. 3	9.96	19

Cluster Frontline Demonstration on Blackgram

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1.	Blackgram	T-9	6.1	6.0	5.0	9.0	Line sowing of seed 25x10cm (40 plants/m2)Seed Treatment with Thiomethoxam 75 WG @ 5 gm / Kg seed to protect from sucking	39	30	7.3	6.1	6.7	11. 6	3 4	18.4 2

							pests. Seed treatment with appropriate Rhizobium culture (bacteria culture) @20 grams of culture per 1kg of seed before sowing greatly helps in germination. Application of imazethapyr(2%) + pendimethalin(30%) (RM) @ 1000 ml/ha as pre- emergence spray in pre-rabi black gram to control weed infestation Application of Delta+Triazophous@1lit/ ha to control jassid population.For control of whitefly population in Black gram spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water. Application planofix hormone @4ml/15lit of water before flowering for better pod development.								

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.	Ujala (OBG 17) Line sowing of seed 25x10cm (40 plants/m2)Seed Treatment with Thiomethoxam 75 WG @ 5 gm / Kg seed to protect from sucking pests. Seed treatment with appropriate Rhizobium culture (bacteria culture) @20 grams of culture per 1kg of seed before sowing greatly helps in germination. Application of imazethapyr(2%) + pendimethalin(30%) (RM) @ 1000 ml/ha as pre- emergence spray in pre-rabi black gram to control weed infestation Application of Delta+Triazophous@1lit/ha to control jassid population.For control of whitefly population in Black gram spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water. Application planofix hormone @4ml/15lit of water before flowering for better pod development	17700	39650	21950	2.24	18500	43550	24400	2.35

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1.	Blackgram Ujala (OBG 17)	760	40	65	50	100	for next season farming and house expenses	25

D. Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any

1.	Ujala (OBG 17) Line sowing of seed 25x10cm (40 plants/m2)Seed Treatment with Thiomethoxam 75 WG @ 5 gm / Kg seed to protect from sucking pests. Seed treatment with appropriate Rhizobium culture (bacteria culture) @20 grams of culture per 1kg of seed before sowing greatly helps in germination. Application of imazethapyr(2%) + pendimethalin(30%) (RM) @ 1000 ml/ha as pre- emergence spray in pre-rabi black gram to control weed infestation Application of Delta+Triazophous@1lit/ha to control jassid population.For control of whitefly population in Black gram spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water. Application planofix hormone @4ml/15lit of water before flowering for better pod development	Yes, the IPM technology and variety is perfectly suitable to the farming system	Weed management and control of YVMV in Blackgram	The variety and technical intervention is completely affordable by the farmers.	No such cases has been recorded	Yes, the technology and variety is acceptable by the villagers/beneficiaries	--

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
High yielding variety (q/ha)	7.6	6.1	Variety is perfectly suitable for pre rabi season with high yielding potential. Moderately tolerant to YVMV & Powdery mildew.
Avg. No.of Pod/Plant	36	30	
Pod length (cm)	4.6	4.4	
1000seed weight (gm)	45	39	

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
6.	Training cum critical input distribution to the beneficiries	22.08.2017, Golamunda	30
7.	Scientist visit tofarmers field to monitor the crop condition	12.09.2017, Narla & Kesinga	50
8.	Scientist visit tofarmers field to collect biometric observation	04.10.2017 Golamunda	30
9.	Scientist visit tofarmers field to collect biometric observation	13.10.2017 Narla & Kesinga	50
10.	Scientist visit tofarmers field to collect yield related data	20.10.2017 Golamunda	50
11.	Scientist visit tofarmers field to collect yield related data	28.10.2017 Narla & Kesinga	50

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

9. Farmers' training photographs

10. Quality Photographs of field visits/field days and technology demonstrated.

11. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input	1,92,500	1,92,500	Nil
	ii) TA/DA/POL etc. for monitoring	10,000	10,000	Nil
	iii) Extension Activities (Field day)	17,500	17,500	Nil
	iv)Publication of literature	5,000	5,000	Nil
	Total	2,25,000	2,25,000	Nil

12. List of Farmer under FLD (Blacjgram)

b) Crop1

Name of farmer	Father's name	Village	Block	Mobile No.	Email ID	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Recommendations based on soil test value	Brief technology intervention	Variety	Seed quantity used	Demo. Yield (q/ha)			Yield of local check q/ha	% increase
						Latitude	Longitude						H	L	A		
Mukunda Majhi	Kanak Majhi	Kodabhata	Golamunda	8658843483		19°30'33"	82°19'03"	Y	20:40:20	Line sowing of seed 25x10cm (40 plants/m2)Seed Treatment with Thiomethoxam 75 WG @ 5 gm / Kg seed to protect from sucking pests. Seed treatment with appropriate Rhizobium culture (bacteria culture) @20 grams of culture per 1kg of seed before sowing greatly helps in germination. Application of imazethapyr(2%) + pendimethalin(30%) (RM) @ 1000 ml/ha as pre- emergence spray in pre-rabi black gram to control weed infestation Application of Delta+Triazophous@1lit/ha to control jassid population.For control of whitefly population in Black gram spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water. Application planofix	Ujala (OBG 17)	16	7.3	6.1	7.3	6.1	19.7

										hormone @4ml/15lit of water before flowering for better pod development							
Biranchi Majhi	Kanak Majhi	Kodabhata	Golamunda	--		19°30'33"	82°19'03"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.6	6.1	8.2
Keshab Majhi	Kanak Majhi	Kodabhata	Golamunda	--		19°30'33"	82°19'03"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.8	6.1	11.5
Kanka Majhi	Basu Majhi	Kodabhata	Golamunda	--		19°30'33"	82°19'03"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.2	6.1	1.64
Balamat majhi	Bhakachan Majhi	Kodabhata	Golamunda	--		19°30'33"	82°19'03"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.2	6.1	1.64
Madan Majhi	Shiva Majhi	Kodabhata	Golamunda	--		19°31'43"	82°20'13"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.3	6.1	3.28
Jaga majhi	Jubraaj Majhi	Kodabhata	Golamunda	--		19°31'43"	82°20'13"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.4	6.1	4.92
Dina Majhi	Kusa Majhi	Kodabhata	Golamunda	--		19°31'43"	82°20'13"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.5	6.1	6.56
Pabitra majhi	Sadananda Majhi	Kodabhata	Golamunda	--		19°31'43"	82°20'13"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.2	6.1	1.64
Chamar Majhi	Kusa Majhi	Kodabhata	Golamunda	--		19°31'43"	82°20'13"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.7	6.1	9.84
Paramanand Majhi	Jubraaj Majhi	Kodabhata	Golamunda	--		19°31'43"	82°20'13"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.6	6.1	8.2
Chandramani Majhi	Jubraaj Majhi	Kodabhata	Golamunda	--		19°33'25"	82°20'42"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	7.1	6.1	16.4
Kartik Majhi	Shiva Majhi	Kodabhata	Golamunda	--		19°33'25"	82°20'42"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.3	6.1	3.28

Judihisti Majhi	Sadhu Mjahi	Kodabhata	Golamunda	--		19°33'25"	82°20'42"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.2	6.1	1.64
Kailash Kumar Naik	Chaitu Majhi	Dahal	Narla	7894770678		20°3'40"	83°20'50"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.1	6.1	0
Jagajiban Naik	Gangadharr Naik	Dahal	Narla	9861695535		20°3'45"	83°20'27"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.2	6.1	1.64
Subit kumar Naik	Gadadhar Naik	Dahal	Narla	--		20°3'45"	83°20'27"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.2	6.1	1.64
Krushnachandra Naik	Gopabandhu Majhi	Dahal	Narla			20°14'35"	83°17'42"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.4	6.1	4.92
Mukesh Kumar Majhi	Gadadhar Naik	Dahal	Narla			20°14'35"	83°17'42"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.5	6.1	6.56
Akshaya Kumar Naik	Gadadhar Naik	Dahal	Narla	9668093831		20°3'45"	83°20'27"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.8	6.1	11.5
Ajit Naik	Padmacharan Naik	Dahal	Narla	9777870404		20°3'40"	83°20'50"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	7.2	6.1	18
Ekadashi Goud	Gopal	Nagupalla	Kesinga	--		20°14'35"	83°17'42"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.2	6.1	1.64
Hadibandhu Goud	Radhagovinda Goud	Boria	Kesinga	--		20°14'35"	83°17'42"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.1	6.1	0
Rameswar Sahu	Govinda Sahu	Boria	Kesinga	--		20°14'35"	83°17'42"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.5	6.1	6.56
Durga Madhab Bagarty	Virendra Bagarty	Boria	Kesinga	--		20°15'06"	83°17'59"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.8	6.1	11.5
Trinath Suna	Raghu Suna	Nagupalla	Kesinga	--		20°15'06"	83°17'59"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.5	6.1	6.56
Girish Chandra	Madhab Nayak	Boria	Kesinga	--		20°15'06"	83°17'59"	Y	20:40:20	-do-	Ujala (OB	8	7.3	6.1	6.5	6.1	6.56

Nayak											G 17)						
Ratnamani Swain	Mahipal Swain	Boria	Kesinga	--		20°15'06"	83°17'58"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.5	6.1	6.56
Hrudananda Swain	Durbadala Swain	Boria	Kesinga	--		20°14'55"	83°17'58"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.8	6.1	11.5
Indubhusan Swain	Tapibara Swain	Boria	Kesinga	--		20°14'55"	83°17'58"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	7.2	6.1	18
Padmanabha Swain	Durjyodhan Swain	Boria	Kesinga	--		20°14'55"	83°17'59"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.5	6.1	6.56
Kulamani Swain	Danar swain	Boria	Kesinga	--		20°15'06"	83°17'59"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.5	6.1	6.56
Hiradhar Pradhan	Mohan Pradhan	Boria	Kesinga	--		20°15'06"	83°17'59"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.2	6.1	1.64
Dolamani Majhi	Pitabasa Majhi	Boria	Kesinga	--		20°15'06"	83°17'59"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.5	6.1	6.56
Nalini Majhi	Trinath Majhi	Boria	Kesinga	--		20°15'06"	83°17'42"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.8	6.1	11.5
Srikanta Pradhan	Jagdish Pradhan	Boria	Kesinga	--		20°14'35"	83°17'42"	Y	20:40:20	-do-	Ujala (OBG 17)	8	7.3	6.1	6.5	6.1	6.56
Kruta Odia	Siddheswar Odia	Boria	Kesinga	--		20°14'35"	83°17'42"	Y	20:40:20	-do-	Ujala (OBG 17)	8	7.3	6.1	6.4	6.1	4.92
Bharat Pradhan	Hrudananda Pradhan	Nagupalla	Kesinga	--		20°14'35"	83°17'42"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.2	6.1	1.64
Chandrasekhar Pradhan	Jagannath Pradhan	Nagupalla	Kesinga			20°14'35"	83°17'42"	Y	20:40:20	-do-	Ujala (OBG 17)	16	7.3	6.1	6.1	6.1	0

Cluster Frontline Demonstration on Green gram (Summer 2018)

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1.	Green gram	Kalamuga	5.7	6.8	4.6	7.3	Line sowing of seed 25x10cm (40 plants/m2) Seed Treatment with Thiomethoxam 75 WG @ 5 gm / Kg seed to protect from sucking pests. Application of imazethapyr(2%) + pendimethalin(30%) (RM) @ 1000 ml/ha as pre-emergence spray in Greengram to manage weed infestation. Application of Delta+Triazophous@1lit/ha to manage jassid population. For control of whitefly population in Greengram spraying of Imidacloprid	25	20	7.0	5.7	6.3	0.6	-0.5	1.6

							17.8% S.L. @ 2ml/5 liter of water & yellow sticky trap @20 per ha. Application of copper oxychloride 1gm/liter of water or sulfex 2.5gm/lit of water to manage Powdery mildew Application planofix hormone @4ml/15lit of water before flowering for better pod development								

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.	APM 2-14 Line sowing of seed 25x10cm (40 plants/m2) Seed Treatment with Thiomethoxam 75 WG @ 5 gm / Kg seed to protect from sucking pests. Application of imazethapyr(2%) + pendimethalin(30%) (RM) @ 1000 ml/ha as pre-emergence spray in Green gram to manage weed infestation. Application of Delta+Triazophous@1lit/ha to manage jassid population. For control of whitefly population in Green gram	14600	28500	13900	1.95	15100	31500	16400	2.08

	spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water & yellow sticky trap @20 per ha. Application of copper oxychloride 1gm/liter of water or sulfex 2.5gm/lit of water to manage Powdery mildew Application planofix hormone @4ml/15lit of water before flowering for better pod development								

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	630	20	50	30	200	Nest farming season	20

D. Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	Seed Treatment with Thiomethoxam 75 WG @ 5 gm / Kg seed to protect from sucking pests	The variety and disease management technology is perfectly suitable to the farming system	This variety is completely suitable for summer sowing and field is free from pest infestation and incidence of YVMV is hardly	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	--
2.	Application of copper oxychloride 1gm/liter of water or sulfex 2.5gm/lit of water to manage						

	Powdery mildew		noticed.				
3.	Application planofix hormone @4ml/15lit of water before flowering for better pod development						

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
No. of Pod/plant	25	21	This variety is perfectly suitable for summer season with high potential yield and tolerant to YVMV.
No of seed/pod	10	09	
1000seed weight (gm)	20.7	19.9	

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training cum critical input distribution to the beneficiaries	10.01.2018 Sankhairmal, Bhawanipata	15
2.	Training cum critical input distribution to the beneficiaries	22.01.2018 Singaribahal, Kesinga	15
3.	Scientist visit to farmers field to collect on germination status of the crop	31.01.2018 Singaribahal, Kesinga	20
4.	Scientist visit to farmers field to monitor crop growth	10.02.2018 Sankhairmal, Bhawanipata	25
5.	Scientist visit to farmers field to c monitor crop growth	13.02.2018 Singaribahal, Kesinga	18
6.	Scientist visit to farmers field to monitor crop growth	04.03.2018 Singaribahal, Kesinga	20
7.	Scientist visit to farmers field to collect the data on yield related parameters	16.03.2018, Sankhairmal, Bhawanipata	25
8.	Scientist visit to farmers field to collect the data on yield related parameters	20.03.2018 Singaribahal, Kesinga	30

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

9. Farmers' training photographs

10. Quality Photographs of field visits/field days and technology demonstrated.

11. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Green gram	i) Critical input	Nil	1,20,000	Nil
	ii) TA/DA/POL etc. for monitoring	Nil	10,000	Nil
	iii) Extension Activities (Field day)	Nil	15,000	Nil
	iv)Publication of literature	Nil	5,000	Nil
	Total	Nil	1,50,000	Nil

12. List of Farmer under FLD (Greengram)

c) Crop1

Name of farmer	Village	Block	Mobile No.	Email ID	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Recommendations based on soil test value	Brief technology intervention	Variety	Seed quantity used	Demo. Yield (q/ha)			Yield of local check q/ha	% increase
					Latitude	Longitude						H	L	A		
Ketuchandra Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	Line sowing of seed 25x10cm (40 plants/m2) Seed Treatment with Thiomethoxam 75 WG @ 5 gm / Kg seed to protect from sucking pests. Application of imazethapyr(2%) + pendimethalin(30%) (RM) @ 1000 ml/ha as pre-emergence spray in Green gram to manage weed infestation. Application of Delta+Triazophous@1lit/ha to manage jassid population. For control of whitefly population in Green gram spraying of Imidacloprid 17.8% S.L. @ 2ml/5 liter of water & yellow sticky trap @20 per ha. Application of copper oxychloride 1gm/liter of water or sulfex 2.5gm/lit of water to manage Powdery mildew Application planofix hormone @4ml/15lit of water before flowering for better pod development	IPM 2-14	20	7.0	5.7	6.2	5.7	8.77

Santosh Kumar Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	5.8	5.7	1.75
Saroj Kumar Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.9	5.7	21.1
Chaturbhoj Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6	5.7	5.26
Bipin Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.2	5.7	8.77
Jogewar Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	5.9	5.7	3.51
Rajesh Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	5.9	5.7	3.51
Sunil Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	5.7	5.7	0
Prabin Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.2	5.7	8.77
Ajit Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.2	5.7	8.77
Lingaraj Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.1	5.7	7.02
Naresh Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.7	5.7	17.5
Nakhetra Bhoi	Singaribahal	Kesinga	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.8	5.7	19.3
Bhubaneswar Pradhan	Sankhairmal	Bhawanipatna	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	7	5.7	22.8

Ananta Pradhan	Sankhairmal	Bhawanipatna	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.5	5.7	14
Tikeram Majhi	Sankhairmal	Bhawanipatna	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.2	5.7	8.77
Narayan Sahu	Sankhairmal	Bhawanipatna	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.8	5.7	19.3
Prabina Sahu	Sankhairmal	Bhawanipatna	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.8	5.7	19.3
Parthaba Majhi	Sankhairmal	Bhawanipatna	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.5	5.7	14
Debarchan Sahu	Sankhairmal	Bhawanipatna	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	7	5.7	22.8
Narendra Biswal	Sankhairmal	Bhawanipatna	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	5.8	5.7	1.75
Bhubane Naik	Sankhairmal	Bhawanipatna	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.9	5.7	21.1
Dhuruba Goud	Sankhairmal	Bhawanipatna	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.6	5.7	15.8
Pitambar pradhan	Sankhairmal	Bhawanipatna	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.8	5.7	19.3
Chaitanya Goud	Sankhairmal	Bhawanipatna	--	--	20^0 29' 26"	83^0 39' 22"	Yes	20:40:40	-do-	IPM 2-14	20	7.0	5.7	6.3	5.7	8.77

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

A) Farmers and farm women (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													

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
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any Goat farming													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction													

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
technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and													

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
fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL													

B) Rural Youth (on campus)

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

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
Poultry production													
Ornamental fisheries													
Enterprise development													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
TOTAL													

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	1	4	1	5	1	-	1	4	-	4	9	1	10
Value addition	1	7	1	8	-	-	-	2	0	2	9	1	10
Integrated Pest Management	2	7	2	9	7	-	7	3	1	4	17	3	20
Integrated Nutrient management	1	5	-	5	2	-	2	3	-	3	10	-	10
Rejuvenation of old orchards	1	8	1	9	1	0	1	-	-	-	9	1	10
Protected cultivation technology	1	5	0	5	-	-	-	3	2	5	8	2	10
Formation and Management of SHGs													
Group Dynamics and farmers organization	1	3	0	3	1	2	3	4	0	4	8	2	10
Information networking among farmers	1	5	1	6	1	0	1	3	0	3	9	1	10
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													

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
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
TOTAL													

D) Farmers and farm women (off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production	1	18	-	18	-	-	-	7	-	7	25	-	25
Weed Management													
Resource Conservation Technologies													
Cropping Systems	1	-	-	-	21	2	23	2	-	2	23	2	25
Crop Diversification	2	-	-	-	20	18	38	4	8	12	24	26	50
Integrated Farming													
Water management	2	26	4	30	-	-	-	14	6	20	40	10	50
Seed production	3	28	2	30	12	8	20	22	3	25	62	13	75
Nursery management													
Integrated Crop Management	1	12	-	12	7	-	7	6	-	6	25	-	25
Fodder production													
Production of organic inputs	2	20	6	26	-	2	2	22	-	22	42	8	50
Others, (cultivation of crops)													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	3	31	5	36	9	3	12	12	15	27	52	23	75
Water management	1	16	5	21	2	2	4	-	-	-	18	7	25
Enterprise development	1	-	-	-	10	6	16	9	-	9	19	6	25
Skill development	2	29	1	30	4	-	4	15	-	15	49	1	50
Yield increment	1	19	-	19	-	-	-	6	-	6	25	-	25
Production of low volume and high value crops													
Off-season vegetables	1	19	-	19	2	-	2	4	-	4	25	-	25
Nursery raising	1	17	-	17	-	-	-	8	-	8	25	-	25
Export potential vegetables	2	32	-	32	4	-	4	12	2	14	48	2	50
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)	1	22	-	22	-	-	-	3	-	3	25	-	25
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards	1	13	4	17	-	-	-	6	2	8	18	7	25
Export potential fruits	2	26	4	30	-	5	5	15	-	15	41	9	50
Micro irrigation systems of orchards	2	17	8	25	5	-	5	16	4	20	38	12	50
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management	2	24	-	24	8	-	8	15	3	18	47	3	50
Production and use of organic inputs	2	24	2	26	6	2	8	10	6	16	40	10	50
Management of Problematic soils	1	10	6	16	-	-	-	9	-	9	19	6	25
Micro nutrient deficiency in crops	4	48	3	51	11	6	17	20	12	32	79	21	100
Nutrient Use Efficiency													
Soil and Water Testing	1	9	3	12	3	-	3	10	-	10	22	3	25
Others, if any													
IV. Livestock Production and Management													
Dairy Management	1	-	-	-	3	3	6	10	9	19	12	13	25
Poultry Management	2	32	-	32	-	4	4	14	-	14	46	4	50
Piggery Management	2	28	-	28	-	5	5	17	-	17	45	5	50
Rabbit Management	1	13	-	13	-	-	-	11	1	12	24	1	25
Disease Management	2	-	-	-	20	18	38	4	8	12	24	26	50
Feed management	1	16	-	16	-	-	-	9	-	9	25	-	25
Production of quality animal products	1	-	-	-	15	2	17	5	-	5	20	5	25
Others, if any Goat farming													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
VII. Plant Protection													
Integrated Pest Management	2	-	20	20	3	19	22	1	7	8	4	46	50
Integrated Disease Management	3	11	25	11	-	-	-	28	11	39	39	36	75
Bio-control of pests and diseases	2	26	4	30	5	-	5	15	-	15	46	4	50
Production of bio control agents and bio pesticides	1	-	-	-	4	2	6	9	10	19	13	12	25
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													

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
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL													

E)RURAL YOUTH (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	1	-	1	1	-	4	4	-	10	10	-	15	15
Bee-keeping													
Integrated farming	1	-	-	-	12	-	12	3	-	3	12	3	15
Seed production	1	8	-	8	5	2	7	-	-	-	13	2	15
Production of organic inputs	2	7	11	18	2	-	2	8	2	10	17	13	30
Integrated Farming													
Planting material production													
Vermi-culture	1	8	-	8	3	-	3	4	-	4	15	-	15
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production	1	8	2	10	3	-	3	2	-	2	13	2	15
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops	1	7	2	9	4	2	6	-	-	-	11	4	15
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying	1	11	-	11	-	-	-	4	-	4	15	-	15
Sheep and goat rearing													

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
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	-	2	2	2	1	3	2	8	10	4	11	15
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing	1	-	9	9	-	-	-	-	6	6	9	6	15
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any	3	24	15	39	-	-	-	6	-	6	30	15	45
TOTAL													

F) Extension Personnel (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management	2	7	1	8	4	2	6	6	0	6	17	3	20
Integrated Nutrient management	1	5	1	6	2	0	2	2	0	2	9	1	10
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization	1	7	1	8	1	0	1	1	0	1	9	1	10
Information networking among farmers	1	3	0	3	3	1	4	2	1	3	8	2	10
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													

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
Crop intensification													
TOTAL													

G) Consolidated table (ON and OFF Campus)

i. Farmers& Farm Women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	1	18	-	18	-	-	-	7	-	7	25	-	25
Resource Conservation Technologies													
Cropping Systems	1	-	-	-	21	2	23	2	-	2	23	2	25
Crop Diversification	2	-	-	-	20	18	38	4	8	12	24	26	50
Integrated Farming													
Water management	2	26	4	30	-	-	-	14	6	20	40	10	50
Seed production	3	28	2	30	12	8	20	22	3	25	62	13	75
Nursery management													
Integrated Crop Management	1	12	-	12	7	-	7	6	-	6	25	-	25
Fodder production													
Production of organic inputs	2	20	6	26	-	2	2	22	-	22	42	8	50
Others, (cultivation of crops)													
TOTAL													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	3	31	5	36	9	3	12	12	15	27	52	23	75
Water management	1	16	5	21	2	2	4	-	-	-	18	7	25
Enterprise development	1	-	-	-	10	6	16	9	-	9	19	6	25
Skill development	2	29	1	30	4	-	4	15	-	15	49	1	50
Yield increment	1	19	-	19	-	-	-	6	-	6	25	-	25
Production of low volume and high value crops													
Off-season vegetables	1	19	-	19	2	-	2	4	-	4	25	-	25
Nursery raising	1	17	-	17	-	-	-	8	-	8	25	-	25
Exotic vegetables like Broccoli													
Export potential vegetables	2	32	-	32	4	-	4	12	2	14	48	2	50
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)	1	22	-	22	-	-	-	3	-	3	25	-	25
TOTAL													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards	1	13	4	17	-	-	-	6	2	8	18	7	25
Export potential fruits	2	26	4	30	-	5	5	15	-	15	41	9	50
Micro irrigation systems of orchards	2	17	8	25	5	-	5	16	4	20	38	12	50
Plant propagation techniques													
Others, if any(INM)													
TOTAL													
c) Ornamental Plants													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management	2	24	-	24	8	-	8	15	3	18	47	3	50
Production and use of organic inputs	2	24	2	26	6	2	8	10	6	16	40	10	50
Management of Problematic soils	1	10	6	16	-	-	-	9	-	9	19	6	25
Micro nutrient deficiency in crops	4	48	3	51	11	6	17	20	12	32	79	21	100
Nutrient Use Efficiency													
Soil and Water Testing	1	9	3	12	3	-	3	10	-	10	22	3	25
Others, if any													
TOTAL													
IV. Livestock Production and Management													
Dairy Management	1	-	-	-	3	3	6	10	9	19	12	13	25
Poultry Management	2	32	-	32	-	4	4	14	-	14	46	4	50
Piggery Management	2	28	-	28	-	5	5	17	-	17	45	5	50
Rabbit Management	1	13	-	13	-	-	-	11	1	12	24	1	25
Disease Management	2	-	-	-	20	18	38	4	8	12	24	26	50
Feed management	1	16	-	16	-	-	-	9	-	9	25	-	25
Production of quality animal products	1	-	-	-	15	2	17	5	-	5	20	5	25
Others, if any (Goat farming)													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
TOTAL													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
TOTAL													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
TOTAL													
VII. Plant Protection													
Integrated Pest Management	2	-	20	20	3	19	22	1	7	8	4	46	50
Integrated Disease Management	3	11	25	11	-	-	-	28	11	39	39	36	75
Bio-control of pests and diseases	2	26	4	30	5	-	5	15	-	15	46	4	50
Production of bio control agents and bio pesticides	1	-	-	-	4	2	6	9	10	19	13	12	25
Others, if any													
TOTAL													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental													

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
fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
TOTAL													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL													

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	-	1	1	-	4	4	-	10	10	-	15	15
Bee-keeping													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Integrated farming	1	-	-	-	12	-	12	3	-	3	12	3	15
Seed production	1	8	-	8	5	2	7	-	-	-	13	2	15
Production of organic inputs	2	7	11	18	2	-	2	8	2	10	17	13	30
Planting material production													
Vermi-culture	1	8	-	8	3	-	3	4	-	4	15	-	15
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production	1	8	2	10	3	-	3	2	-	2	13	2	15
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops	1	7	2	9	4	2	6	-	-	-	11	4	15
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying	1	11	-	11	-	-	-	4	-	4	15	-	15
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	-	2	2	2	1	3	2	8	10	4	11	15
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing	1	-	9	9	-	-	-	-	6	6	9	6	15
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)	3	24	15	39	-	-	-	6	-	6	30	15	45
TOTAL													

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	1	4	1	5	1	-	1	4	-	4	9	1	10
Integrated Pest Management	4	14	3	17	11	2	13	9	1	10	34	6	40
Integrated Nutrient management	2	10	1	11	4	0	4	5	-	5	19	1	20
Rejuvenation of old orchards	1	8	1	9	1	0	1	-	-	-	9	1	10
Value addition	1	7	1	8	-	-	-	2	0	2	9	1	10
Protected cultivation technology	1	5	0	5	-	-	-	3	2	5	8	2	10
Formation and Management of SHGs													
Group Dynamics and farmers organization	2	10	1	11	2	2	4	5	0	5	17	3	20
Information networking among farmers	2	8	1	9	4	1	5	5	1	6	17	3	20
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
TOTAL													

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

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	

*training title should specify the major technology /skill transferred

I) Sponsored Training Programmes

Sl. No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants										Sponsoring Agency
							Male			Female			Total				
					PF/RY/EF		Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1.	Gender firendlly small farm toos and implements	Skill transfer	Harvest and post harvest period	12	RY	12	--	--	--	152	225	123	152	225	123	500	Watershed mission, Govt. of Odisha

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

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	05	419	81	500	38	35	13	48	454	94	548
KisanMela	03	948	225		45	118	48				
KisanGhosthi	--	--	--	--	--	--	--	--	--	--	--
Exhibition	02	389	111		38	54	29				
Film Show	25	523	277		65	24	37				
Method Demonstrations	10	81	19		45	10	18				
Farmers Seminar	01	50	--		25	08	04				
Workshop	01	37	13		18	10	07				

Group meetings	10	288	112		39						
Lectures delivered as resource persons	10	381	69		58	24	26				
Advisory Services	--										
Scientific visit to farmers field	178	999	306		42	152	204				
Farmers visit to KVK	1450	1138	312		52						
Diagnostic visits	78	85	21		31	38	40				
Exposure visits	02	50	10		50	04	--				
Ex-trainees Sammelan	02	58	22		05	06					
Soil health Camp	02	161	39		54	06	06				
Animal Health Camp	02	172	28		54	06	06				
Agri mobile clinic	--										
Soil test campaigns	--										
Farm Science Club Conveners meet	03	75	--		48	02	05				
Self Help Group Conveners meetings											
MahilaMandals Conveners meetings	04	--	120		35	05	08				
Celebration of important days (Agriculture Education Day, World Food Day, Jai Vigyan Jai Kissan, Women in Agriculture)	04	119	81		38	14	16				
Sankalp Se Siddhi											
Swatchta Hi Sewa	04	218	182		32	12	12				
MahilaKisan Divas	01	--	50		50	02	03				
Any Other (Specify)											
Total											

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	12
Radio talks	05
TV talks	10
Popular articles	12
Extension Literature	10
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
Total					

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided
Paddy	MTU-1001	139	3,29,430	--
Paddy	Pratikhya	131	3,10,470	--
Grand Total		270	6,39,900	--

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided
Vegetable seedlings				
Cauliflower	Kimaya, Megha	20000		
Cabbage	Kohinoor	15000		
Tomato	VNR3082,Laxmi	30,000		
Brinjal	VNR-212,Blue star	35,000		
Chilli	SuperJhankar,VNR205	10000		
Onion				
Others				
Fruits				
Mango				
Guava				
Lime				
Papaya				
Banana				
Others				
Ornamental plants				
Medicinal and Aromatic				
Plantation				
Spices				
Turmeric				
Tuber				
Elephant yams				
Fodder crop saplings				
Forest Species				
Others, pl.specify				
Total				

Production of Bio-Products

Name of product	Quantity Kg	Value (Rs.)	No. of Farmers benefitted
Bio-fertilizers (Vermicompost)	2000	10,000	10
Bio-pesticide			
Bio-fungicide			
Bio-agents (Earthworm E.foetida)	08kg	4000	10
Others, please specify. Mushroom production	100kg		138

Mushroom spawn production			
Total			

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Small ruminants				
Sheep				
Goat				
Other, please specify				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)	Vanaraja	1200	60000	
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Mixed carp				
Fish fingerlings				
Spawn				
Others (Pl. specify)				
Grand Total				

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

i) Name of Seed Hub Centre:

Name of Nodal Officer :	Dr. Amitabha Panda
Address :	KVK, Kalahandi Arkabahalipada Farm, Khariar Road, Bhawanipatna
e-mail :	Kvkkalahandi.ouat@gmail.com
Phone No. : Mobile :	9437297307

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2017	Pigeon pea	PRG -176	200	25	199.6	FS
	Blackgram	PU-31	150	30	58.06	CS
Rabi 2017-18	Green gram	IPM 2-03	250	50	--	CS
	Green gram	IPM 2-14	300	60	--	CS
Summer/Spring 2018						

iii) Financial Progress

Fund received (2016-17 and 2017-18)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2016-17	50.0	40.0	33.24518	--
2017-18	--	60.0 (Not yet received)	23.06207	No fund has received under revolving unit in the financial year 2017-18

iv) Infrastructure Development

Item	Progress
Seed processing unit	Construction of seed processing plant and storage godown is completed and all the equipments have been purchased.It will be handed over by end of june , 2018 after completely furnishing the total structure.
Seed storage structure	

3.6. (A) Literature Developed/Published (with full title, author & reference)

Item	Title	Author's name	Number	Circulation
Research paper	Impact of crop loan on adoption improved tecnology In cultivation of hybried rice: evidence from Village level study in state of Odisha.	[1]R.K. Rout, **[2]S. Behera**, [3]L.K. Das, [4] N. Ranasingh and [5]S. Behera	2017 6(5): 3145-3153	International Journal of Science, Environment and Technology 2278-3687
	Krishi vigyan kendra training programmes and suggestions of the tribal people of odisha -an overview.	Narayan Bar[1], Aditya Kiran Padhiary[1]*, **Srikrushna Behera[2]** and Sandeep Rout[3]	2017 VII(XXIV):125-128	Multi logic in science 2277-7601
	Efficacy of the selected herbicides on Growth and yield performance of groundnut	**S. Behera[1]*,** R K Rout, B Sinha, C Patra, A Nayak, D Behera and T Das	2017 6(5): 3035-3043	International Journal of Science, Environment

				and Technology 2278-3687
	Influence of plant growth regulators on chlorophyll content of different Sesame (*Sesamum indicum* L.) cultivars.	**S. Behera[1*],** A. K. Padhiary[2], P.K. Nanda[3], S. Rout[4], A.Nayak[5] and D. Behera[6]	2017 5(5): 1439-1444	International Journal of pure and applied bioscience 2320-7051
	Effect of plant growth regulators on Morpho-physiological and yield parameters of some Sesame (*Sesamum indicum* L.) cultivars.	**S. Behera[1*],** A. K. Padhiyari[2], S. Rout[3], A.Nayak[4], D. Behera[5] and P.K. Nanda[6]	2017 6(11):1784 -1809	International Journal of current microbiology And applied sciences 2319-7706
	A study on adoption of entrepreneurial activities women self help group for sustainable livelihood.	M. Jena[1], l. L. Meena[2], **S. Behera[3]** and s. Das[4]	2017 5(5):1493-1501	International Journal of pure and applied bioscience 2320-7051
	Effect of different level of sulphur and phosphorus on growth and yield attributes of Sesamum.	A. K. Pagal*, A. P. Singh, **S. Behera** and C. Meher	2017 6(11): 3278-3285	International Journal of current microbiology And applied sciences 2319-7706
	Comparative Economics of major cash crops in western odisha - The Evidence from Village Level Study.	[1]R. K. Rout, [2]**S. Behera**, [3]L. K. Das, [4]N. Ranasingh, [5]S. Behera, [6]T. Das	2017 5(5): 1401-1405	International Journal of pure and applied bioscience 2320-7051
	Response of Zinc and Boron on growth and yield characters of green	**S. Behera**, B. Sinha, A. Padhiary, A. Nayak, D. Behera, T.	2017 15(2): 102-106	E-Planet 0974 – 4398

	gram.	Das and R.Rout		
	A study on resource use efficiency of sugarcane farms: evidence from village level study in Orissa.	R. K. Rout, **S.Behera***, A. Padhiary, P. K. Nanda, A. Nayak, D. Behera and T. Das	2017 6(11): 1955-1962	International Journal of current microbiology And applied sciences 2319-7706
	Nutrient uptake and dry matter accumulation of different rice varieties grown under shallow water depth.	R. K. Swain, A. K. Padhiary*, **S. Behera**, S. P. Mishra, M jena, S. Swain, s. Rout	2017 5(5): 1335-1342	International Journal of pure and applied bioscience 2320-7051
	Root phenology and biochemical changes in rice genotypes under drought stress	**S.Behera***, R. K. Rout, B. Sinha, A. Padhiary, A. Nayak, D. Behera, T. Das	2017 6(11): 1818-1828	International Journal of current microbiology And applied sciences 2319-7706
	Effect of drought stress on growth and yield attributes of paddy	**S. Behera***, R. K. Rout, A. Padhiary, P. K. Nanda, A. Nayak, D. Behera, T. Das	2017 5(5): 1371-1377	International Journal of pure and applied bioscience 2320-7051
	Biochemical changes in some rice varieties in response to waterlogged and submerged conditions	B. Das, *A.K. Padhiary, **S. Behera,** S. P. Mishra, M. Jena, S. Swain, S. Rout	2017 5(5): 972-978	International Journal of pure and applied bioscience 2320-7051
	Partitioning of dry matter in different rice varieties in response to water logged and submerged	B. Das, *A.K. Padhiary, **S.Behera,** S. P. Mishra, M. Jena, S. Swain,	2017 6(11): 4037-4044	International Journal of current microbiology

	condition	S.Rout		And applied sciences 2319-7706
	Effect of submergence stress on morpho-physiological characters of paddy	B. Das, A. K. Padhiary*, **S.Behera**, S. Mishra, S. Swain, S. Rout	2017 5(5): 1113-1122	International Journal of pure and applied bioscience 2320-7051
	A comparative analysis in cost and returns of sugarcane production in odisha	R.K. Rout, L.K.Das, **S.Behera**, A. Padhiary, N. R. Mohapatra and N. Ranasingh	2017 6(11): 3827-3839	International Journal of current microbiology And applied sciences 2319-7706
	Morpho physiological traits of some rice varieties in respose to shallow water depth"	R. K. Swain, A. K. Padhiary*, **S.Behera**, S. P. Mishra, M Jena, S Swain, S Rout	2017 6(11): 3950-3957	International Journal of current microbiology And applied sciences 2319-7706
	Strengthening of self help groups through forward And backward linkages - a study in odisha	M. Jena[1]*, L. Mallick[2], T. Majhi[3], **S. Behera**[4] and L.L. Meena[5]	2017 6(6): 3326-3337	International Journal of Science, Environment and Technology 2278-3687
	Effect of seed coating materials on seed quality during storage of paddy	S. K. padhi, **S.Behera**[2],S P Mishra, A K Padhiary, B Nayak[5]	2017 6(6): 1263-1279	Journal of Pharmacognosy and Phytochemistry 2278-4136
	Biochemical traits of	R.K. Swain, A.K.	2017	International

	some rice varieties grown under shallow water depth	Padhiary*, S. Behera, S.P. Mishra, M Jena, S Swain and S Rout	6(6): 3270-3275	Journal of Science, Environment and Technology 2278-3687
	Assessment of growth, yield and quality of onion genotypes under red and laterite zone of West Bengal	TK Behera, J Mandal, S mohanta, AK Padhiary, **S Behera**, D Behera and RK Rout	2017 6(6): 493-497	Journal of Pharmacognosy and Phytochemistry 2278-4136
Seminar/conference/ symposia papers	Third International Conference on Bio-resource and Stress Management (ICBSM), 8th -11th November 2017	Jaipur, Rajasthan	--	--
	National seminar on Sustainable development-chemistry in Agriculture (20th regional conference of Odisha chemical society), 28th-29th October 2017	Pragati Science College, Bhawanipatna	--	--
	National Seminar on Reaching the Unreached Through Science & Technology 17 – 18 December, 2017	Indian science congress association Odisha chapter/ KIIT, Bhubaneswar	--	--
	New Horizon of Extension - Challenges, Opportunities and Preparedness , February 1-3, 2018	1st International extension congress, CIWA, Bhubaneswar	--	--
	Frontiers Of Rice Research For Improving Productivity,Profitability And Climate Resilience	3rd ARRW international Symposium ICAR-NRRI, Cuttack	--	--
Books				
Bulletins				

News letter	Krishi Kalika	Scientific staff of KVK	--	Farmers of the district
Popular Articles	Kappa Huda Nangala- A Boost to Cotton production: An Indigenous Farmer Friendly Cotton Ridger	**S. Behera**, T. Das, M. Jena, A. K. Padhiary, S. P Mishra	*Indian Farmer* ISSN 2394-1227	--
	A Horti Based Farming System Model for Food and Nutritional Security	A. K. Padhiary**, S. Behera**, T. DAS	*Indian Farmer* ISSN 2394-1227	--
	VEREMICOMPOST- Making Green India Clean India	A. K. Padhiary, **S. Behera**	*Indian Farmer* ISSN 2394-1227	--
	Back Yard Poultry Farming: A Sustainable Alternative Employment Opportunity	**S. Behera***, R.K. Rout, M. Jena, A Padhiary and T. Das	*Indian Farmer* ISSN 2394-1227	--
	Module for Increasing Farm Income By 2022	**S. Behera**, R.K. Rout, M. Jena, A Padhiary and T. Das	*Indian Farmer* ISSN 2394-1227	--
	Indian Currency Demonetization: Pros & Cons	**S. Behera**, R.K. Rout, M. Jena, A Padhiary and T. Das	*Indian Farmer* ISSN 2394-1227	--
	Interventions to Produce Woman Agriprenuers: Another Feather of Success to Agricultural Community	**S. Behera**, M. Jena, T. Das, A Padhiary and R.K. Rout	*Indian Farmer* ISSN 2394-1227	--
	AZOLLA- A Solution to Agriculture Food Security	A. K. Padhiary*, **S. Behera**	Livestock line	--
	Azolla Cultivation- A Solution to Agriculture Food Security	A. K. Padhiary*, **S. Behera**	*Indian Farmer* ISSN 2394-	--

			1227	
	Economics of Intercropping of Maize with Cowpea in Unbounded Kharif Upland	[1]**S. Behera***, [2]R K Rout, [3]A. Padhiary	Agrobios ISSN: 0972-7027	--
	GST: an Era comes to an End for Bundles of Taxes	**S. Behera***, R. K. Rout, A. Padhiary	Agrobios ISSN: 0972-7027	--
	A Vision towards Sustainable Agriculture: Future and Present Scenario	[1]R K Rout, [2]**S.Behera***, and [3]A. Padhiary	Agrobios ISSN: 0972-7027	--
Book Chapter				
Extension Pamphlets/ literature	Importance of soil testing and soil health card	Scientific staff of KVK,Kalahandi	--	--
	Soil health and its management for food security	Scientific staff of KVK,Kalahandi	--	Farmers of the district
	Mushroom cultivation	Scientific staff of KVK,Kalahandi	--	
	Profitable poultry rearing	Scientific staff of KVK,Kalahandi	--	
	Exotic vegetable cultivation	Scientific staff of KVK,Kalahandi	--	
	Scientific cultivation of Pointed gourd	Scientific staff of KVK,Kalahandi	--	
	Package of practices of spongy gourd	Scientific staff of KVK,Kalahandi	--	
	Scientific cultivation of Blackgram & Greengram	Scientific staff of KVK,Kalahandi	--	
	Dairy management	Scientific staff of KVK,Kalahandi	--	
	Quail and duck farming	Scientific staff of KVK,Kalahandi	--	
Technical reports	Annual progress report	Scientific staff of KVK,Kalahandi	--	Govt line department, OUAT & ATARI
	Annual Action Plan	Scientific staff of KVK,Kalahandi	--	
	Proceding of SAC Report	Scientific staff of KVK,Kalahandi	--	
	District strategy report	Scientific staff of KVK,Kalahandi	--	
Electronic Publication (CD/DVD etc)India	Sankapla se siddhi	-- -- -- --	--	--
	Web Telesact-Krishi Unnati		--	--
	World soil Day		--	--
	Overview of KVK activities		--	--
TOTAL				

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Review workshop of NICRA project	Review workshop of NICRA project	Dr. Hrudananda Malik, Scientist, Animal science	12.7.17 (1 day)	ATARI, Kolkota
2.	Review cum workshop of NICRA project	Review cum workshop of NICRA project	Dr. Hrudananda Malik, Scientist, Animal science	13.1.18 to 15.1.18 (3 das)	ATARI, Kolkota
3.	Orientation TRg.-cum-Refresher course for animal science	Orientation TRg.-cum-Refresher course	Dr. Hrudananda Malik, Scientist, Animal science	3.2.2018	ATARI, Kolkota
4.	National seminar on farmers' right and agro biodiversity exhibition	National seminar on farmers' right and agro biodiversity exhibition	Dr. Hrudananda Malik, Scientist, Animal science	26..2.2018 to 27.2.2018 (2 days)	ATARI, Jabalpur
5.	Pulse seed hub review workshop	Review workshop of pulse seed hub project	Mr Tapan Kumar Das	02.08.17	ATARI, Kolkota
6.	Pulse seed hub review meeting	Review meeting of pulse seed hub project	Mr Tapan Kumar Das	07.11.17	IIPR, Kanpur
7.	Zonal workshop of KVKs	Attended 24th Zonal workshop of KVKS under Zone VII	Mr Tapan Kumar Das	24.11.17 to 26.11.17	KVK, Burahnpur, MP
8.	Training programme for Senior Scientist & Heads	Attended training programme on "principles and practices of Management"	Mr Tapan Kumar Das	05.1.18 to 09.01.18	DEE, OUAT, BBSR
9.	Orientation training cum refresher course on plant protection discipline	Attended orientation training cum refresher course on plant protection discipline	Mr Tapan Kumar Das	01.02.18	ATARI, Kolkota
10.	International Conference on sustainable of smallholder Agriculture in Developing countries under changing climatic scenario	Attended International Conference on sustainable of smallholder Agriculture in Developing countries under changing climatic scenario at CSAU&T, Kanpur	Mr Tapan Kumar Das	14.02.18 to 17.02.18	CSAU&T, Kanpur
11.	Training Programme on Cutting edge Technologies for Horticultural crops under climate changes scenario	3 day	Tulasi Majhi,	20-22.11.2017	DEE, O.U.A.T, Bhubaneswar
12.	Training Programme on Horticultural crops	3 days	Tulasi Majhi,		IIHR, Bangalore
13.	Orientation TRg.-cum-Refresher	1 day	Tulasi Majhi,	01.02.18	ATARI, Kolkota

	course for Horticulture				
14.	Write shop for training Manual	3 days	Tulasi Majhi,	12-14.03.2018	DEE, O.U.A.T, Bhubaneswar
15.	Orientation training cum refresher course on Soil Science	1 day	Lata Mallick	31.01.2018	ATARI, Kolkota
16.	Orientation training cum refresher course for Extension scientists	1 day	Madhumita Jena	06.02.2018	ATARI, Kolkota
17.	Review workshop on Cluster Frontline Demonstration on Oilseed & pulses	1 day	Madhumita Jena	24.02.2018	ATARI, Kolkota
18.	Review workshop on Cluster Frontline Demonstration on Oilseed & pulses	1 day	Madhumita Jena	22.09.2017	DEE, O.U.A.T, Bhubaneswar

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

Name of farmer	Indubhusan Swain
Address	Village : Boria Block : Kesinga District : Kalahandi
Contact details (Phone, mobile, email Id)	91-9938090828
Landholding (in ha.)	8.4ha
Name and description of the farm/ enterprise	Paddy, Pigeon pea, Banana and Cotton He has 8.4ha of land in which more than 70% of the land is upland and rest of the land is used for Paddy cultivation. Pigeon pea and short duration paddy was the main crop in upland but due to unavailability of local degenerated variety and suitable scienticfic practices the farmers could not able to get desired return out of the agri-entreprises. During a field visist the plight & problems of the farmer were discussed. Along with Paddy in Kharif some pulses, oilseed, short duration fruits and vegetables can also be grown which has higher profitability and production potentiality that can play a big role in changing their livelihood besides providing nutritional security. Complete layout of cropping pattren and suitable variety, scientific methods of prcatice was naratted to the farmers. Technologies i.e

	Seed production of Pigeon Pea Integrated Nutrient management in Banana Drought tolerant short duration paddy varieties Integrated Nutrient Management in Cotton and Pigeon pea Varietal demonstraion and weed management in Ground nut
Economic impact	Rs.4,55,000/-(Annual Income) which is 30% more than his regular income.
Social impact	He is known as aprogessive farmers in his locality and appointed as Krushak sathi (Farmers friend) for his Gram panchayat.
Environmental impact	
Horizontal/ Vertical spread	By seeing his success farmers are shifting from monoculture paddy cultivation to Pulse (Arhar), Banana and cotton cultivation. Farmers from inside, outside the district and also from outside states are visiting his farm. Through him the the demonstrated technology has spread out vertically across the class of farmers and now more than 30 ha area is under Pigeon pea seed production and 80 ha is under pigeon pea cultivation (shift from upland paddy). INM in Banana & IPM in cotton & Pigeon pea is spread out in an area of approximately 100 ha.

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

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

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

b. Give details of organic farming practiced by the farmer

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

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

- Checklist
- Observation
- Questionnaire
- Gap analysis

- Interviews

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 shakeup	01
8.	Water Bath	01
9.	Incubator	01
10.	Mridaparikshak kit	02

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
170	110	280	1400	22	--

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.	Exhibition cum demonstration was organized. Meetind was conducted in the presence of auspicious guest and resource person from university and Govt. departmen t delivered talk highlighti ng the	350	05	1. Mrs. Namita Rani Sahoo,chairman, Zilla Parishad 2. Mrs. Santoshi Das, Block Chairman, (Bhawnipatn 3. Sj. Bhabasindhu Mangaraj, Vice chairman, Zilla Parishad 4. Sj. Chandramani Badanayak 5. All District Heads of Line Department officers.	200	250

	issues of soil health day and its significance and role and responsibility of farmers to maintain the physical and chemical properties of soil.					

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
Animal health camp	01	100	Livestock
Soi health camp	01	100	Crop
Farmers scientist interaction	01	50	Crop
Video show	04	200	Crop & livestock
Training cum demonstration on mushroom production techniques	01	50	Crop

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

No of student trained	No of days stayed
10	70

ARS trainees trained	No of days stayed
NA	NA

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

Date	Name of the person	Purpose of visit
18.15.2017	P.Ananta Prasad Deo Palace, Kalahandi	Visited the demonstration units of KVK, Kalahandi and expressed to start a new venture on creating opportunity for market linkage through mushroom production in large scale.
20.11.2017	Prof.M.M Hussain, Dean College of Agriculture, OUAT, Bhubaneswar	Visited the demonstration units of KVK, Kalahandi

28.12.2017	Dr.Mangesh K.Deshmukh Director, Smart ATMA, Amravati	To visit KVK and discuss about privatization in Agriculture and scope and operational procedure of Smart ATMA and collaboration with KVK for better outreach.
28.12.2017	Mahedeorro Bhuibhar Smart ATMA, Amravati	
28.12.2017	Santosh K.Deshmukh Indian agri.land Army, Amaravati	
15.01.2018	Sj.G.K. Dhala, Agriculture Production Commissioner, Department of Agriculture and Farmer Empowerment, Govt. of Odisha	Visited the technology park of KVK and interacted with the scientist about the major issues and constraints of the district and draw suggestions to tackle the problems.
14.02.2018	DR. S.K Roy Principle Scientist, ICAR-ATARI, Kolkata	To visit the sites of Cluster Frontline Demonstrations of Pulses and interacted with the farmers about the technology adoption and expected benefits/returns out of it.

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)
Integrated nutrient Management	60	74	4000/q	7600/q
Pest and disease control	60	65	4000/q	7600/q
Integrated Pest Management	60	78	4000/q	7600/q
Irrigation Management	60	66	4000/q	7600/q
Weed Management	60	81	4000/q	7600/q

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
Zinc application in Paddy	10,000 ha
Integrated Nutrient Manamgement in Banana	100ha
Sulphur application in Onion	80ha
Pod borer management in Pigeon Pea	120ha
Yellow Vein Mosaic In Blackgram & Greengram	200ha
Foliar application of water soluble fertilizer in vegatables crops	50ha
Seed inoculation in pulse crops and seed treatment in paddy and vegetable crops	3000ha
Wilt management in Tomato & Brinjal	80ha

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

4.4. Details of innovations recorded by the KVK

Thematic area	
Name of the Innovation	Cotton Ridger (Kappa Huda Nangala)
Details of Innovator	Durga Charan Pradhan
Back ground of innovation	In cotton weeding and hoeing up is a very tedious, labour intensive and expensive operation which is done twice at 3rd and 6thweek after sowing. To carry out this operation around 12-15 no of labour are required and a farmer spends a total sum of Rs.1200-1500/- per acre. As we know this activity is done twice, a farmer has to pay around Rs.2400-3000/-per acre towards labour payment only for weeding and hoeing.
Technology details	***Cotton ridger*** is a plough like structure with a specially designed iron shovel attached to it. The shovel consists of two curved iron sheets which are vertically attached to both sides of the iron base of the plough, in such a way that it turns soil to both sides of the row when ploughed. It is operated by two persons after hitching it with pair of bullock. The shovel has been designed as per the row spacing of the cotton crop .
Practical utility of innovation	With the help of this small implement, weeding and hoeing is much easier, time saving and less expensive. A pair of bullock is attached to the implement and two persons are sufficient for weeding and hoeing upto 2 acre of land in a day by spending only Rs.250/-. The cost of the implement is Rs.1500/- and on hiring basis the cost is Rs.500/- per day. Due to the higher working efficiency the implement becomes popular among the cotton growers and at the same time it has solved the problem of labour unavailability

4.5. Details of entrepreneurship development

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

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Deptt. Of Agriculture Agriculture Technology Management Agency (ATMA)	Organizing farmer- scientist interaction (2 nos) one in Kharfi and one in Rabi season. Diagnostic field visit and extension activities (Akhaya Trutiya, Environment day Celebration, Jai Kissan Jai Vigyan, World Food Day, Women in Agriculture Day), awareness campaign are conducted in a collaborative mode
Bringing Green Revolution in Eastern India (BGREI)	Technological backstopping & guidance to the farmers (Paddy cultivation) and monitoring the activities under BGERI Blocks of the District
National Horticulture Mission	Monitoring (inspection field visit) the activities of NHM and capacity building of stakeholders on scientific cultivation of fruits and vegetables.
Leading NGOs of the district	Capacity building of the farmers through training programme, exposure visit to KVK and demonstrations are conducted in a collaborative mode.
Watershed Mission, Kalahandi	Conducted workshop cum awareness training (12 nos) Gender friendly drudgery reducing small farm tools in paddy based farming system for Women Self help groups of watershed areas.

5.2. List of special programmes undertaken during 2017-18by 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.)
NA	--	--	--	--

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

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Skill Transfer training programme on Gender friendly small farm tool s and implements	To educate and provide skill training to WSHG group members about the utility of gender friendly small farm tools in the field of agriculture (Paddy based farming system)	Harvesting and Post -harvesting period. July-December, 2017	Odisha Watershed Mission, Govt. of Odisha	3,08,000.00

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl.	Name of demo	Year	Area(	Details of production	Amount (Rs.)	Remarks

No.	Unit	of estt.	Sq.mt)	Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Poultry unit	2012		Vanaraja	Chicks	1200	20000	23000	
2.	Mushroom unit	2012		V.Volvaceae P.Sajarcaju	Mushroom	100q	6000	10726	
3.	Mushroom spawn unit	2012		V.Volvaceae P.Sajarcaju	Spawn	1000no	9000	13384	
4.	Vermicompost unit	2012		E.foetida	Vermicompost and Earthworm	2000k 8kg		6500	
5.	Polyhouse	2012		Vegetable seedlings	Seedlings			6210	
6.	Crop cafeteria	2012		Vegetable cultivation	Seasonal vegetables			6620	
7.									
	Total								

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy	24.07.2017	15.12.2017	4.2	MTU1001	FS	139	68000	3,29,430	Seed Production unit
Paddy	11.08.2017	04.01.2018	3.8	Pratikhya	FS	131	68000	3,10,470	Seed Production unit

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

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	2000		20000	
2.	Earthworm	08		4000	

6.4. Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Poultry	Vanaraja	Chicks	1200		60000	
2.							

3.							

6.5. Utilization of hostel facilities

Accommodation available (No. of beds):25

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
November, 2017	09	01 (Rs.450/-@Rs. 50/-) per bed	
March ,2018	20	02(Rs.2000/-@Rs. 50/-) per bed	
March, 2018	32	01(Rs.1600/-@Rs. 50/-) per bed	
Total :	61	04	

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed: No
No. of staffquarters: NA
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
Contingency	State Bank of India	Main Branch, Bhawanipatna	11083460368
Revloving Fund	State Bank of India	Main Branch, Bhawanipatna	31944687691
Seed hub	State Bank of India	Main Branch, Bhawanipatna	36073617171

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	
Ground nut	3.40000	--	3.40000		
Pigeon pea	3.73800	--	3.73800		
Blackgarm	2.25000	--	2.25000		
Groundnut	--	2.13750		2.13750	

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

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

Ground nut	3.40000	--	3.40000		
Pigeon pea	3.73800	--	3.73800		
Blackgarm	2.25000	--	2.25000		
Groundnut	--	2.13750		2.13750	

7.4. Utilization of KVK funds during the year 2017-18(Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	60,00,000	53,83,000	53,83,000
2	Traveling allowances	1,50,000	1,50,000	1,50,000
3	Contingencies			
A	KVK contingency including Swachha Bharat Abhiyan	1298800	1298800	1298800
B	Cluster Frontline Demonstration (Oilseed & pulses)	11,52,550	11,52,550	11,52,550
C	Sankalpa se siddhi	78,800	78,800	78,800
D	Skill transfer training programme on Gender friendly small farm tools	3,08,000	3,08,000	3,08,000
E	IRRI Head –Head Trial	32,000	32,000	32,000
F	NICRA	8,30,800	8,30,800	8,30,800
G	Repairing & Maintenance	2,00,000	2,00,000	2,00,000
H				
I				
J				
TOTAL (A)		1,00,50,950	94,33,950	94,33,950
B. Non-Recurring Contingencies				
1	Non-Recurring Contingencies	3,00,000	3,00,000	3,00,000
2				
3				
4				
TOTAL (B)		3,00,000	3,00,000	3,00,000
C. REVOLVING FUND		--	--	5,42,312
GRAND TOTAL (A+B+C)		1,03,50,950	97,33,950	1,02,76,262

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
2015-16	156518	1,02,183	2,55,741	353569
2016-17	353569	2,72,155	4,80,667	0(Rs.5,65,631/- refunded to comtroller OUAT, BBSR. Therefore the closing balance of 2016-17 and opening balance of 2017-18 is nil)
2017-18	0	70,260	5,42,312	158757

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:22

(iii) Details of marketing channels created for the SHGs:

7.7. Joint activity carried out with line departments and ATMA

Nameof activity	Number of activity	Season	With line department	With ATMA	With both
Farmer-scientist Intaction	02	Kharif & Rabi		With ATMA	
Celebration of Akhaya Trutiya	01	Kharif			With both
Celebration of Field day	05	Kharif & Rabi	With line department		
District level Farmers fair cum Ghumura	01	Rabi			With both
Diagnostic field visit	03	Kharif & Rabi	With line department		
Participation in Training as resource person	25	Kharif & 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)

8.2. Prevalent diseases in Livestock/Fishery

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

9.1. Nehru YuvaKendra(NYK) Training

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

9.2. PPV & FR Sensitization training Programme

Date of organizing the programme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration

9.3. *mKisan*Portal (National Farmers' Portal/ SMSPortal)

Type of message	No. of messages	No. of farmers covered
Crop	27	42000 (each message is delivered to 42000 no of registered farmers of the district)
Livestock	09	
Fishery	-	
Weather	15	
Marketing	03	
Awareness	04	
Training information	03	
Other	02	
Total	63	42000

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	*12450*
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	--

9.5. a. Observation of Swacha Bharat Programme

Date of Observation	Activities undertaken
16.06.2017	Cleaniliness campaign
18.09.2017	Road show and swachh bharat pledge
12.12.2017	Training cum demonstration on recycling of degradable waste to organic products
10.02.2018	Display and banner and compition on swachh bharat abhiyan

b. Details of Swachhta activities with expenditure

Activities	**Number**	**Expenditure (in Rs.)**
1. Digitization of office records/ e-office	--	--
2. Basic maintenance	05	5000
3. Sanitation and SBM	05	10000
4. Cleaning and beautification of surrounding areas	04	4000
5. Vermicomposting/	02	3000

Composting of biodegradable waste management & other activities on generate of wealth for waste		
6. Used water for agriculture/ horticulture application	04	2000
7. Swachhta Awareness at local level	02	10000
8. Swachhta Workshops	--	--
9. Swachhta Pledge	01	5000
10. Display and Banner	01	3000
11. Foster healthy competition	01	2000
12. Involvement of print and electronic media	04	--
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	05	5000
14. No of Staff members involved in the activities	13	--
15. No of VIP/VVIPs involved in the activities	10	--
16. Any other specific activity (in details)		
Total	**57**	**49,000**

9.6. Observation of National Science day

Date of Observation	Activities undertaken
04.12.2017	Essay writing, debate , quiz and drawing compition was conducted among school children(Junior and senior group). Trpphy was given to awarded children and during the event a small culturalprogramme was organiused by the school children. Scientist & teacher educated the school children about the importance and significance of plant, water, forest and land etc. Issues regarding Gloabal warming and deforestration was discussed and adviced them to make their earth clean & green. Importance of agriculture in our day to day life and choosing agriculture as a education/profession is the best way to serve our nation was expressed by the scientific staff of KVK,

9.7. Programme with SeemaSurakshaBal (BSF)

Title of Programme	Date	No. of participants

9.8. 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)

9.9. Details of '*Sankalp Se Siddhi'*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		
30.08.2017	--	01	--	02	01	01	04	350	38	397	Yes	Yes

9.10. Details of Swachhta Hi Sewaprogramme organized

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

9.11. Details of MahilaKisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1.	Debate compition on Role of women at home and farm	04	20	--	--
2.	Essay writing on Farm Women is the backbone of agri-ecomony	04	20	--	--
3.	Drawing compition of multiple role of farm women	04	15	--	--

9.12. 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.	Indubhusan Swain	At/Po-Boria Via- Utkela, Block-Kesinga, Dist- Kalahandi Mobile no- 91-9938090828	Banana cultivation
2.	Ghanashyam Verma	Village-Jurkabadi, Block- Kesinga Mobile no-91-9938514100	Agro-forestry model
3.	Durga Charan Pradhan	At- Bangalipada, Po- Kikia, Via- Utkela, Block- Kesinga, Dist-Kalahandi Mobile no- 91-9583474582	Cotton Ridger
4.	Prahallad Budhia	Village- Kanakpur,Block-Bhawaniatna Mobile no- 8018698722 / 7894581168	Integrated farming system
5.	Ajit Pradhan	Village-Dahal, Po-Kandel, Block-Narla Mobile no- 91-9777870404	Hybrid Paddy
6.	Janmenjaya Mahapatra	Village-Durduri, Block-Bhawanipatna Mobile no- 91-9777870404	Pond based farming system
7.	Ashok Kumar Pattnaik	Village- Ghantabahali, Block-Junagarh Mobile no- 91-9439120060	Horticulture based farming system
8.	Murali Budhia	Village- Kanakpur,Block-Bhawaniatna Mobile no- 91-7894581168	Integrated Farming system
9.	Kesab Chandra Bhoi	At/Po-Kashrupada, Block- Kesinga Mobile no- 91-7894581168	Hybrid sunflower production
10.	Ahalya Sahu	Village- Malgaon Block-Bhwanipatna Mobile no- 91-9777463293	Mushroom Production

9.13.HRD programmes attended by KVK person

Training programme/ Seminar/ Symposia/ Workshop etc attended	Duration	Name of the participants	Designation	Organizer of the training Programme
Review workshop of NICRA project	12.7.17 (1 day)	Dr. Hrudananda Malik	Scientist, Animal science	ATARI, Kolkota
Review cum workshop of NICRA project	13.1.18 to 15.1.18 (3 das)	Dr. Hrudananda Malik	Scientist, Animal science	ATARI, Kolkota
Orientation TRg.-cum-Refresher course for animal science	3.2.2018	Dr. Hrudananda Malik	Scientist, Animal science	ATARI, Kolkota
National seminar on farmers' right and agro biodiversity exhibition	26..2.2018 to 27.2.2018 (2 days)	Dr. Hrudananda Malik,	Scientist, Animal science	ATARI, Jabalpur
Pulse seed hub review workshop	02.08.17	Mr Tapan Kumar Das	Scientist, Plant Protection	ATARI, Kolkota
Pulse seed hub review meeting	07.11.17	Mr Tapan Kumar Das	Scientist, Plant Protection	IIPR, Kanpur
Zonal workshop of KVKs	24.11.17 to	Mr Tapan Kumar	Scientist, Plant	KVK, Burahnpur, MP

	26.11.17	Das	Protection	
Training programme for Senior Scientist & Heads	05.1.18 to 09.01.18	Mr Tapan Kumar Das	Scientist, Plant Protection	DEE, OUAT, BBSR
Orientation training cum refresher course on plant protection discipline	01.02.18	Mr Tapan Kumar Das	Scientist, Plant Protection	ATARI, Kolkota
International Conference on sustainable of smallholder Agriculture in Developing countries under changing climatic scenario	14.02.18 to 17.02.18	Mr Tapan Kumar Das	Scientist, Plant Protection	CSAU&T, Kanpur
Training Programme on Cutting edge Technologies for Horticultural crops under climate changes scenario	20-22.11.2017	Tulasi Majhi,	Scientist, Horticulture	DEE, O.U.A.T, Bhubaneswar
Training Programme on Horticultural crops		Tulasi Majhi,	Scientist, Horticulture	IIHR, Bangalore
Orientation TRg.-cum-Refresher course for Horticulture	01.02.18	Tulasi Majhi,	Scientist, Horticulture	ATARI, Kolkota
Write shop for training Manual	12-14.03.2018	Tulasi Majhi,	Scientist, Horticulture	DEE, O.U.A.T, Bhubaneswar
Orientation training cum refresher course on Soil Science	31.01.2018	Lata Mallick	Scientist, Soil Science	ATARI, Kolkota
Orientation training cum refresher course for Extension scientists	06.02.2018	Madhumita Jena	Scientist, Agril.Extension	ATARI, Kolkota
Review workshop on Cluster Frontline Demonstration on Oilseed & pulses	24.02.2018	Madhumita Jena	Scientist, Agril.Extension	ATARI, Kolkota
Review workshop on Cluster Frontline Demonstration on Oilseed & pulses	22.09.2017	Madhumita Jena	Scientist, Agril.Extension	DEE, O.U.A.T, Bhubaneswar

9.14. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Poultry unit	23000	ICAR
2.	Mushroom unit	10726	
3.	Mushroom spawn unit	13384	
4.	Vermicompost unit	6500	
5.	Polyhouse	6210	
6.	Crop cafeteria	6620	

9.15. Resource Generation:

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

9.16. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
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9.17. 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 otherprogrammes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	

b. Fund received under TSP in 2017-18 (Rs. In lakh):

c. Achievements of physical outcomeunder TSP during 2017-18

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	

d. Location and Beneficiary Details during 2017-18

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

12.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
Renovation of farm pond	1	1	0.5	45	Integrated farming system was developed around the newly renovated farm pond
Construction of deep open well	7	7	0.45	35	Round the year vegetable cultivation around the newly constructed deep open well
Low cost goat shed	5	5	5 nos.	25	Heat stress management in goat during summer

Crop Management

Name of intervention undertaken	Area (ha)	No of farmers covered /	Remarks

		benefitted	
Demonstration of stress tolerant verities Maize C.v-4325	1.5	23	Yield (q/ha)-16.8, Net returns (Rs./ha) 15180, Gross return-24680, B:C-2.59
Black gram-PU 31	6.0	32	Yield (q/ha)-9.8, Net returns (Rs./ha) 74000, Gross return-98000, B:C-4.08
Green gram-TARM1	4.0	26	Yield (q/ha)-8.6, Net returns (Rs./ha) 29600 , Gross return- 51600 , B:C-2.34
Brinjal C.v- VNR- 218, 212	1.8	29	Yield (q/ha)-212, Net returns (Rs./ha) 113500 , Gross return- 159000 , B:C-4.28
Tomato C.v- Utkala kumari	1.4	37	Yield (q/ha)-173, Net returns (Rs./ha) 135000 , Gross return- 173000 , B:C-4.55
Chilli C.v- Agnirekha	1.1	42	Yield (q/ha)-20, Net returns (Rs./ha) 117500 , Gross return- 160000 , B:C-3.76
Community Vegetable nursery during Kharif season to mitigate the drought situation	0.5	43	Yield (q/ha)-26, Net returns (Rs./ha) 16900 , Gross return- 25600 , B:C-2.94

Livestock and fisheries

Name of intervention undertaken	Number of animal covered	Number of units	Area (ha)	No of farmers covered / benefitted	Remarks
Vaccination to cattle	480 nos.	480 nos.	480 nos.	47	Milk production of cow 3.2 L/Day , Low Infection rate, Net returns- 6380/- for 6 month/ Cow, Gross return- 9800/- for 6 month/ Cow, B:C-2.86
Feeding management of milking cow during heat stress	230 nos.	230 nos.	230 nos.	55	Milk production of cow 3.2 L/Day, Mortality rate decreases, low rate of infection noticed.
Fodder cultivation (hybrid napier)	1 ha	1 ha	1 ha	45	Milk production of cow 4.2 L/Day, High growth rate of calf, less incidence of infection

Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted	Remarks
Seed bank (Black gram PU-35)	1	12	35	Quantity produced (q)-47
Seed bank (Green gram TARM-1)	1	7	27	Quantity produced (q)-45

Capacity building

Thematic area	No. of Courses	No. of beneficiaries		
		Males	Females	Total
Crop cultivation	1	22	8	30
Soil testing	1	18	12	30
Methods of crop cultivation	1	21	9	30
Nutrient management	1	17	13	30
Live stock management	1	25	5	30
Vermi-compost	1	23	7	30

Extension activities

Thematic area	No. of activities	No. of beneficiaries		
		Males	Females	Total
Field day (Livestock management)	1	31	19	50
Awareness programme	5	98	52	150
Field day (Crop production)	1	28	22	50

Detailed report should be provided in the circulated Performa

13. 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

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

15. 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	Success indicator

							in lakh)	

1. 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

2. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3-5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1					
2					

3. 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					

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

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

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