PROFORMA FOR ANNUAL REPORT 2019 (January-December 2019)

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,Nabarangpur P.O-Badakumari,Umerkote Dist.-Nabarangpur,Odisha Pin-764073	06866270530	06866270530	nabarangapurkvk@yahoo.co.in kvknabarangapur.ouat@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology,Bhubaneswar-751003,Odisha	0674-2397362	0674-2397362	deanextensionouat@yahoo.com

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

Name	Telephone / Contact		
Dr.Narayan Bar		8917575257 8895615450	barnarayan@gmail.com

1.4. Year of sanction of KVK: 2004

1.5. Staff Position (**as on 1st January, 2019**)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/Temporary	Category (SC/ST/ OBC/ Others)
1	Senior Scientist& Head	Dr.Narayan Bar	Senior Scientist& Head	Agril. Extension	23230+ 8000	08.04.2010	Contractual	Gen
2	Subject Matter Specialist	Dr.G.C.Sahoo	Scientist(Soil.Sc.)	Soil Science	24850+ 6000	05.05.2006	Contractual	OBC
3	Subject Matter Specialist	Sh.Paritosh Murmu	Scientist	Agronomy	17610 + 6000	01.01.2016	Contractual	ST
4	Subject Matter Specialist	Sh . Rudra P Mohalik	Subject Matter Specialist	Nematlogy	15600+5400	20.06.2018	Contractual	SC
5	Subject Matter Specialist	-						
6	Subject Matter Specialist	-						
7	Subject Matter Specialist	-						
8	Programme Assistant	Mirs. Shubhasri Sahoo	Prgramme Assistant	Home Science	15100+4200	09.10.2006	Contractual	GEN
9	Computer Programmer							
10	Farm Manager	Miss Binapani Taria	Farm Manager	Horticulture	10560+4200	06.02.2015	Contractual	SC
11	Accountant / Superintendent							
12	Stenographer	Sh . Ratiranjan Behera	Jr. Steno cum computer Operator	Stenography	5200 + 2400	18.03.2019	Contractual	SEBC
13.	Driver	Shri Janmejaya Sahoo	Driver-cum-Mechanic	-	7400+1900	25.07.2008	Contractual	GEN
14.	Driver	Shri Rajanikanta Pattaniak	Driver-cum-Mechanic	-	7400+1900	28.07.2008	Contractual	GEN
15.	Supporting staff	Mr.Bharata Jena	Peon- Cum - Watchman	--	5200+1500	02.08.2008	Contractual	GEN
16.	Supporting staff	Mr.Hrushikesh Pradhan	Peon- Cum - Watchman	--	5200+1500	24.11.2014	Contractual	GEN

1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	2.5
2.	Under Demonstration Units	0.2
3.	Under Crops	9.5
4.	Orchard/Agro-forestry	3.6
5.	Old Mango Orchard	0.8
6	New Mango Orchard	1.2
7	Cashew Orchard	1.2
8	Lemon Orchard	0.6
9	Litchi Orchard	0.4
	Total	20

:

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	Not yet started							ICAR
2.	Farmers Hostel	Nil							
3.	Staff Quarters (6)							Damged condition but used	
4.	Piggery unit	Nil							
5	Fencing	Nil							

6	Rain Water harvesting structure	Nil							
7	Threshing floor							1 used	
8	Farm godown	Nil							
9.	Dairy unit	Nil							
10.	Poultry unit	Nil							
11.	Goatary unit	Nil							
12.	Mushroom Lab							Used	
13.	Mushroom production unit	Nil						Used	
14.	Shade house	Nil							
15.	Soil test Lab							Used	
16	Others,Please Specify								

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Bolero	29.06.2012	650000	91023	Running condition
Motor Bike	2012	55000	7500	Running condition

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Mridhaparikshyak	2017	86800	Working	ICAR
b. Farm machinery				
Tractor	2001	Rs.3,42,068/-	Running condition	DPP,OUAT
Pwer Tiller	2012	Rs.59,000/-	Running condition	DPP,OUAT

c.AV Aids

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund

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.	16.11.2019	30	➢ The emphasize to be given on training of Rural Youth on Spawn production so that they can avail necessary benifits under MKUY ➢ Distance education on Mushroom production technologies to be explored by the rural women from	Yet to be done	This recommendation for the year 2020-21

			Directorate of Extension Education, OUAT, Bhubaneswar through KVK ➢ There should be rearing of Quail(Gunduri) and animal demo units in KVK campus. ➢ There should be mother Unit for Back yard poultry at KVK Campus, the egges will be hatched at the hatchery unit of the Veterinary and Animal Resource deptt. Of the district then the chicks will be distributed to the farmers by the KVK ➢ KVK to facilitate the farmers with Horticulture department of the district for Grenn House with fogger for vegetable seedling raising at villages on community approach basis ➢ Organic farming and Climate smart agriculture are to be emphasised ➢ KVK to emphasis production of organic inputs through trainings to Rural Youth ➢ There is need of Fishery Scientist at this KVK as there israpid growth in piciculture sector of the district ➢ "Per drop more crop" to be emphasised ➢ Soil degradation due to monocropping of maize to be addressed on priority basis ➢ Literacy percentage in tribal		

			farm women to be increased through Scientist ➢ Acid soil management for all the crops to be addressed ➢ Programmes to develop for high lands, medium lands and low lands separately ➢ Bio-pesticides to be included in FLDs/OFTs of Plant Protection discipline ➢ Cluster approach to be taken up by KVK to develop Mushroom village and the model kitchen garden of KVK campus to be replicated farmer homestead ➢ Rearing of Black Bengal type of Goat to be taken up by KVK under TSP, shelter management programme in poultry and goat to be initiated under TSP ➢ Climate resilient variety of different crops to be tested in the district, the NICRA KVKs to be contacted for germplasm		

** 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 (2019)

Sl. no.	Item	Information
1	Major Farming system/enterprise	Rice-Maize-Redgram
2	Agro-climatic Zone	Eastern Ghat High Land
3	Agro ecological situation	Eastern Ghat High Land zone of Odisha

4	Soil type	Sandy Clay Loam ,Mixed red and Black soil
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Rice- 1790 kgs/ha,Maize-3318 kgs/ha,Ragi-822 kgs/ha,Red gram-858 kgs/ha,Groundnut-1100 kgs/ha
6	Mean yearly temperature, rainfall, humidity of the district	Mean annual temperature-24.8˚C Mean annual rainfall-1569mm,Mean annual humidity-58%
7	Production of major livestock products like milk, egg, meat etc.	Milk

Note: Please give recent data only

2.b. Details of operational area / villages (2019)

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		Umerkote	Chikalpador	➢ Groundnut ➢ Rice ➢ Vegetables	➢ Cultivation of cereals not growing of pulses leades to soil deterioration ➢ High incidence of Rice stem borer	➢ Crop diversification with pulses ➢ Integrated pest management ➢ Integrated pest management ➢ Nutritional food security ➢ ➢ Backyard poultry rearing ➢ Mushroom cultivation
2		Jharigaon	Monguda	➢ Maize ➢ Rice ➢ Tomato ➢ vegetables	➢ Cracking of tomato fruit ➢ Indiscriminate use of nitrogen fertilizer ➢ Malnutrition	➢ Integrated nutrient management ➢ Prcessing and value addition ➢ Crop diversification with pulses ➢ Nutritional food security ➢ Backyard poultry rearing ➢ Integrated pest management ➢ Mushroom cultivation

3		Nandahandi	Sindhiguda	Rice Blackgram Sugarcane Vegetables	➢ Cultivation of cereals not growing of pulses leades to soil deterioration ➢ Indiscriminate use of chemical fertilizer ➢ Malnutrition	➢ Crop diversification with pulses ➢ Integrated pest management ➢ Integrated nutrient management ➢ Backyard poultry rearing ➢ Mushrom cultivation ➢ Nutritional food security
4		Raighar	Chatabeda	➢ Maize ➢ Rice ➢ Vegetables	➢ Cultivation of cereals not growing of pulses leades to soil deterioration ➢ Indiscriminate use of chemical fertilizer ➢ Malnutrition	➢ Integrated nutrient management ➢ Mushroom cultivation ➢ Integrated pest management ➢ Processing and value addition ➢ Backyard poultry rearing ➢ Nutritional food security
5		Dabugaon	Junapani	➢ Maiz ➢ Rice ➢ Vegetables	➢ Cultivation of cereals not growing of pulses leades to soil deterioration ➢ Indiscriminate use of chemical fertilizer ➢ Malnutrition	➢ Processing and Value addition ➢ Integrated nutrient management ➢ Integrated pest management ➢ Nutritional food security ➢ Backyard poultry rearing ➢ Mushroom cultivation

2. c. Details of village adoption programme:

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

Name of village	Block	Action taken for development
Monoguda	Jharigan	➢ Demonstration on Weed Management in transplanted Rice ➢ Demonstration on application of Boron in Rice ➢ Demonstration on Management of Rhizome rot in Banana ➢ Demonstration of off-season cultivation of triple diseases resistant tomato variety Arka rakshak ➢ Demonstration on value addition of mushroom
Chikalpador	Umerkote	➢ Assessment of Herbicide(Pretilachlor 6%+ Pyrazosulfuron Ethyl 0.15% GR) for weed management in transplanted Rice ➢ Assessment of split application of nitrogen in Maize ➢ FLD on application of lime with bioinnoculants in maize ➢ Assessment of tissue culture banana ➢ Cfld on chickpea ➢ Assessment of different breeds of poultry birds for backyard

		rearing
Junapani	Dabugaon	➢ Demonstration on Intercropping of Black gram in Maize ➢ Assessment of foliar application of Boron and Molybdenum in caulioflower ➢ Assessment of IPM module for management of thrips in onion ➢ Demonstration on Papaya variety Red Lady ➢ Demonstration on Nutritional garden for improving nutritional security of farm women
Bhamini	Nandahandi	➢ Assessment of Rice variety "HASANTA" for BPH management ➢ Demonstration on Intercropping of Cowpea in Maize ➢ FLD on application of vermicompost with bioinnoculants in tomato ➢ Assessment of kharif onion to substitute maize in upland ➢ Assessment of yield potential of Oyster mushroom from different substrates ➢ CFLD on Black Gram
Chatabeda	Raighar	➢ Demonstration on Weed Management in Maize

		➢ FLD on INM in Brinjal ➢ Demonstration On IDM Module For Rotting Complex And Tikka Disease In Groundnut ➢ Demonstration on Marigold variety BM2

2.1 Priority thrust areas

S. No	Thrust area
1.	Soil health & fertility management
2.	Crop substitution & cropping system
3.	Weed management
4.	Pest & disease management
5.	Mushroom Cultivation
6.	Backyard poultry rearing
7.	Dry land Farming
8.	Nutritional Food Security
9.	Drudgery Reduction
10.	Non land enterprises

11.	Fruit & Vegetable Cultivation
12.	Marketing awareness

3. TECHNICAL ACHIEVEMENTS

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

OFT												FLD										
No. of technologies tested:												No. of technologies demonstrated:										
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		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
6	6	42	4	0	31	0	5	2	40	2	42	14	13	140	5	-	80	15	30	-	115	15	130

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		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
72	66	1525	100	103	620	347	160	94	880	544	1424	30	33	2858	165	270	1180	1130	83	30	1428	1430	2858

Impact of capacity building											Impact of Extension activities										
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								
Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T
20	20	3	-	6	3	5	3	14	6	20	2858	2858	117	135	250	265	177	85	544	485	1029

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
Paddy-45	45	25000	13500

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
Nil		0.005	0.003

* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper	Nil						
Seminar/conference/ symposia papers	Nil						
Books	Nil						
Bulletins	Nil						
News letter	2	1000	-	-	-	-	-
Popular Articles	Nil	-	-	-	-	-	-
Book Chapter	Nil	-	-	-	-	-	-
Extension Pamphlets/ literature	7	3500	-	-	-	-	-
Technical reports	6	6000	-	-	-	-	-
Electronic Publication (CD/DVD etc)	1	-	-	-	-	-	-
TOTAL	16	10500	-	-	-	-	-

1 Achievements on technologies assessed and refined

OFT-1

+	Title of On farm Trial	**Assessment of Finger millet varieties**	
2.	Problem diagnosed	Low yield due to the local variety	
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**FP**	Local ragi (Kala Ragi)
		T O_1	Bhairabi

		T O $_2$	Arjun (OEB-526)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**Source :** AICRP on millet, CPR,OUAT,1999 Berhampur, OUAT- 2016 (Annual Report 2016-17, OUAT)	
5.	Production system and thematic area	**Rainfed upland** , Varietal substitution	
6.	Performance of the Technology with performance indicators	**TO1 :**Maturity duration 110 days with average yield 17.6 q/ha. Moderate resistance to l brown seed. **T O2:**Maturity duration 110 days and average yield 20.7q/ha. with moderate resistance finger blast and brown seed.	
7.	Final recommendation for micro level situation	Farmers are advised to adapt the Finger millet var. Arjun	
8.	Constraints identified and feedback for research	No such constraints faced	
9.	Process of farmers participation and their reaction	Farmers Scientist interaction	

Thematic area: Varietal substitution

Problem definition: Low yield due to the local variety

Technology assessed:

FP	Local ragi (Kala Ragi)	
T O$_1$	Bhairabi	

$T O_2$	Arjun (OEB-526)	

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 finger	No. of Ear/Plant	Test wt. (100 grain wt.)						
FP	7	No. of finger- 42	No. of Ear-5	--	7	**7.5**	8000	14100	6100	1.76
TO1	7	No. of finger-49	No. of Ear- 9	----	5	10.65	10000	21300	11300	2.13
TO2	7	No. of finger- 62 ,	No. of Ear- 12	--	5	13.25	12000	26500	14500	2.21

OFT 2

1.	Title of On farm Trial	**Assessment of IDM in Bacterial Leaf Blight in rice**	
2.	Problem diagnosed	**Low yield due to severe BLB incidence**	
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**FP**	**Farmers are only applying carbendazim with low dose 0.1%**
		$T O_1$	**Seed treatment with bleaching powder @ 10g/ l/ kg seed + Zinc sulfate (spraying of Streptocycline @ 300 ppm + Copper Oxychloride @ 0.3% d disease appearance**
		$T O_2$	**seed treatment with *Pseudomonas fluroscens* @10g/kg of seed, spraying Streptocycline @ 300 ppm + COC@ 0.3% during disease appearance**
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**Source :TNAU Agr i portal 2015** **OUAT , 2009-10**	

5.	Production system and thematic area	**IDM, Irrigated Medium land**
6.	Performance of the Technology with performance indicators	**% of infestation,** **Disease index %** **TO1: Bleaching powder is a broad spectrum contact bactericide comes in contact,** **Streptocyline is a broad spectrum systemic bactericide inhibit t ultimately kill the cells, Copper oxychloride is a broad spectrum cells by breaking the cell wall of bacterial cells.** **TO2: *Pseudomonas flourescens* is an antagonistic agent against which induces Induced Systemic Resistance , Streptocyline is a b the murien synthesis in bacterial cell wall and ultimately kill the spectrum contact bactericide causes lysis of bacterial cells by bre**
7.	Final recommendation for micro level situation	Farmers are advised to **use *Pseudomonas flourescens* is an antagonistic agent against bacteria, which can be employed as PGPR which induces Induced Systemic Resistance , Streptocyline is a broad spectrum systemic bactericide inhibit the murien synthesis in bacterial cell wall and ultimately kill the cells, Copper oxychloride is a broad spectrum contact bactericide causes lysis of bacterial cells by breaking the cell wall of bacterial cells.**
8.	Constraints identified and feedback for research	No such constraints faced
9.	Process of farmers participation and their reaction	Farmers Scientist interaction

Thematic area: IDM

Problem definition: Low yield due to the local variety

Technology assessed:

FP	**Farmers are only applying carbendazim with low dose 0.1%**	
T O_1	**Seed treatment with bleaching powder @ 10g/ l/ kg seed + Zinc sulfate @ 2%, spraying of Streptocycline @ 300 ppm + Copper Oxychloride @ 0.3% during disease appearance**	
T O_2	**seed treatment with *Pseudomonas fluroscens* @10g/kg of seed, spraying of Streptocycline @ 300 ppm + COC@ 0.3% during disease appearance**	

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
FP	7				**46%**	37	31000	66600	35600	2.14
TO1	7				**35%**	42	32000	75000	43000	2.34
TO2	7				**28%**	45	34000	81000	47000	2.38

OFT 3

1.	Title of On farm Trial	**Assessment On managemenet of Fall Army Worm in Maize**	
2.	Problem diagnosed	**Yield LOSS due to severe Fall Army Worm incidence**	
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**FP**	**Application of Chloropyriphus,Profenophos @ 2 ml/lit.**
		T O_1	**Apply Beauveria bassiana @ 400g/acre. Apply 1.5% Chloropyriphus du thickly in the field bund for avoiding migrating from one field to anothe**
		T O_2	**Apply 5% active ingradient of Azadiractin, release 20,000 Trichograma parasite 4-5 days in a week interval.**
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**Source :** **OUAT** **ANNUAL REPORT, 2017**	
5.	Production system and thematic area	**IPM, Rainfed upland**	
6.	Performance of the Technology with performance indicators	**% of pest infestation,** **No. of insect/Plant,No. of plant infested/sq.m**	
		TO1:Beauvaria Bassiana is a white muscaradine fungus which p	

		TO2: Azadiractin is a botanical pesticide used as repalent, antifeedant and reduce the fe used as egg parasitoid
7.	Final recommendation for micro level situation	Farmers are advised to **used to *Apply 5% active ingradient of Azadiractin, release 20,000 Trichograma chilonis parasite 4-5 days in a week interval.***
8.	Constraints identified and feedback for research	No such constraints faced
9.	Process of farmers participation and their reaction	Farmers Scientist interaction

Technology option	No. of trials	Yield component			**(% of pest infestation , No. of insect/Plant)**	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7				**48% , 13nos**	**41**	20500	51250	30250	**1.98**
TO1	7				**33% ,7 nos**	**45**	20700	53420	32720	**2.41**
TO2	7				**24% ,4 nos**	**47**	21000	58750	38250	**2.56**

OFT 4

1.	Title of On farm Trial	**Assessment of NPK consortia bio fertiliser in maize**
2.	Problem diagnosed	**Low return due to Low NPK use efficiency** **(pH – 5.5 - 5.8 , OC- L, Avail N – L , Avail P – L , Avail K – M)**
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**156 :46 : 30 NPK Kg /ha (2 bag DAP, 6 bags Urea , 1 bag MOP) + FYM 2 ton** **100 % NPK(150 : 75 : 60) kg / ha (soil test based) + FYM 5 tons /ha** **NPK consortia biofertiliser 1 lit /ha as seed treatment + 75 % NPK (112.5 :56.25 : 45)Kg /ha (soil test based) + FYM 5 tons /ha**
		FP — **Application of Chloropyriphus,Profenophos @ 2 ml/lit.**
		T O_1 — **Apply Beauveria bassiana @ 400g/acre. Apply 1.5% Chloropyriphus du thickly in the field bund for avoiding migrating from one field to anothe**
		T O_2 — **Apply 5% active ingradient of Azadiractin, release 20,000 Trichograma parasite 4-5 days in a week interval.**
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**Source :** **Source :OUAT 2017**

5.	Production system and thematic area	**Nutrient management , Rainfed upland**
6.	Performance of the Technology with performance indicators	**Plant height(cm) , Biomass (q/ha)** **TO1 : Soil test based fertiliser application , Full dose** **T O2:TO1 : Soil test based fertiliser application(75 % dose) , combination of N, P, K fixing /mobilising microorganisms .** **TO1:Beauvaria Bassiana is a white muscaradine fungus which p** **TO2: Azadiractin is a botanical pesticide used as repalent, antife used as egg parasitoid**
7.	Final recommendation for micro level situation	Farmers are advised to **used to** ***Apply NPK consortia biofertiliser 1 lit /ha as seed treatment + 75 % NPK (112.5 :56.25 : 45)Kg /ha (soil test based) + FYM 5 tons /ha***
8.	Constraints identified and feedback for research	No such constraints faced
9.	Process of farmers participation and their reaction	Farmers Scientist interaction

Technology option	No. of trials	Yield component			**Plant height(cm) , Biomass**	Yield (q/ha)	Cost of cultivation	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio

					(q/ha))		(Rs./ha)			
FP	7					50.74	42000	81184	39184	1.93
TO1	7					64.88	44500	103808	59308	2.33
TO2	7					84.32	48000	134912	86913	2.81

OFT 5

1.	Title of On farm Trial	**Assessment of urea briquttes in rice .**
2.	Problem diagnosed	Low return due to low N fertiliser use efficiency (pH – 5.6-5.9 , OC- L, Avail N – L , Avail P – M , Avail K – M)
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	80 :40;40 (NPK , Kg /ha , RD) 100 :40 :40 (NPK kg /ha ,STBFA) 100:40: 40 (NPK kg /ha STBFA , Urea briquetts)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**Source NRRI 2015-16**
5.	Production system and thematic area	**Rainfed low land**
6.	Performance of the Technology with performance indicators	**TO1 : Soil test based fertiliser application**

		T O2: Soil test based fertiliser application (N in form of aglomerated urea Briquettes urea and fly ash .)
7.	Final recommendation for micro level situation	Farmers are advised to **used to *Apply* Soil test based fertiliser application (N in form of aglomerated urea Briquettes made from urea and fly ash .)**
8.	Constraints identified and feedback for research	No such constraints faced
9.	Process of farmers participation and their reaction	Farmers Scientist interaction

Technology option	No. of trials	Yield component			**Plant height(cm) , Biomass (q/ha))**	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7									
TO1	7									
TO2	7									

OFT 6

1.	Title of On farm Trial	**Assessment of foliar application of nutrients in Black gram**
2.	Problem diagnosed	**Low yield of Black gram due to poor nutrient supplement.**

3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**FP**	**Application of DAP @ 50 kg/ha**
		T O_1	**Foliar application of 2% DAP**
		T O_2	**Foliar application of 19: 19: 19 (NPK) @ 2%**
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**AICRP on MULLaRP, 2017-18**	
5.	Production system and thematic area	Rainfed Upland, Nutrient Management	
6.	Performance of the Technology with performance indicators	**Yield(q/ha) , Economics, B:C ratio**	
7.	Final recommendation for micro level situation	Farmers are advised for foliar application of 19:19:19 N,P,K	
8.	Constraints identified and feedback for research	No such constraints faced	
9.	Process of farmers participation and their reaction	Farmers Scientist interaction, Field Day	

Technology option	No. of trials	Yield component			**Plant height(cm) , Biomass (q/ha))**	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of pods/plant	% change in yield							
FP	7	24	--			3	7000	16500	9500	2.35
TO1	7	35	21.66			3.65	8000	20075	12015	2.5
TO2	7	45	41.66			4.25	9000	23375	14375	2.59

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Rice	IDM	**Seed treatment with carboxin 37.5% + thiram 37.5% @2.5 gm/kg and foliar spraying of tricyclazole @ 0.06% twice at 15 days interval starting from the initiation of disease**	1	1	10						10			
2.	Rice	IDM	**Spraying of combined fungicide Azoxystrobin+ difenconazole @ 1ml/l twice at 15 days interval starting from initiation of the infection**	1	1	7+3						7+3			
3.	Brinjal	IPM	**Application of neem cake @ 250 kg/acre with soil test based RDF with balanced nitrogen application. Installation of blue trap @ 25 no/ha & Application of**	1	1	10						10			

			Etoxazole 10 % SC @ 40 gm a.i /ha						
4.	Onion	IPM	**Plant maize (2 rows) as border crop 30 days prior to the transplanting of onion crop Need based alternate spray of Methomyl @ 0.8g/l at 30 DAT (with spreader @ 0.5-1%) and Profenophos @ 160 g a.i/ ha at 10 days interval**	1	1	10		10	
5	Tomato	Yield Increase	**Wilt resistant hybrid tomato variety Arka Rakshak.**	1	1	10		10	
6	Pulses	Post Harvest Management	**Storage of pulses in Pro super bags**	1	1	10		10	
7	maize	inm	**N (LCC) ,(P,K - STBFA -75:60 P,K Kg /ha) ,. FYM 5ton /ha , DAP -163 Kg basal , MOP 50 Kg Basal + 50Kg at 21 DAS .Top dressing of urea 62.5 Kg / ha based on LCC reading from 21 DAS up to initiation of flowering**	4	4	10	0	10	
8	Rice	Varietal substitution	**Hasanta (OR-2328-5) Var. Hasanta (OR-2328-5) 145-150 days, medium slender, panicle length: 27.8 cm; average yield:55-60 q/ha; tolerant to BPH; Adaptability in rainfed & irrigated medium land**	1	1	10	0	10	

9	Maize	Weed Management	**Pre-emergence application of Atrazine @ 1kg/ha at 3-5 DAS followed by 2,4 D @ 1kg/ha as post emergence spray at 20-25 DAS.**	1	1	10	0	10	
10	Direct seeded Rice	Weed Management	**Applied pyrazosulfuron @ 20 g/ha as pre-emergence stage i.e 0-3 DAS followed by Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAS**	1	1	10	0	10	
11	Rice	Weed Manegement	**application of herbicide (Bensulfuron methyl 0.6%+ Pretilachlor 6.0%) @ 10 kg/ha at 4 DAT**	1	1	10	0	10	
12	Green gram	Nutrient Management	**Application of sulphur @ 30 Kg /ha along with Soil Test Based NPK (25 : 50: 40) Kg /ha**	4	4	10	0	10	
13	Onion	Nutrient Management	**Application of sulphur @ 45 kg /ha along with Soil test based N:P:K (120:40:60) Kg /ha + vermicompost 7.5 ton /ha**	4	4	10	0	10	
14	Cauliflower	Micronutrient Management	**Foliar application of 50 ppm B and 25 ppm Mo at 30 DAT , 45 DAT and 60 DAT along with soil test based dose of NPK (120 : 40 :60) Kg /ha .+ 10 ton FYM /ha**	1	1	10	0	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P_2O_5	K_2O					
Maize	Kharif 2019	Rainfed Upland	Alfisol	104.6	24.1 -	248.8	Maize	15.07.2019	12.11.2019		
Rice	Kharif 2019	Rainfed Medium land	Alfisol	112	23	265	Maize	12.07.2019	02.11.2019		
Rice	Kharif 2019	Rainfed Medium land	Alfisol	124	21	271	No	02.07..2019	9.11.2019		
Maize	Kharif 2019	Rainfed Medium land	Alfisol	121	22.5	257	Maize	15.07..2019	7.11.2019		
Rice	Kharif 2019	Rainfed Medium land	Alfisol	124	21	271	No	17.07..2019	12.11.2019		
Onion	Rabi,2019-20	Rainfed Medium land	Alfisol	124	21	271	No	19.07..2019	03.11.2019		
Tomato	Rabi,2019-20	Rainfed Upland	Alfisol	124	21	271	No	02.07..2019	9.11.2019		
Rice	Kharif 2019	Rainfed Medium land	Alfisol	104.6	24.1 -	248.8	Maize	15.07.2019	12.11.2019		
Rice	Kharif 2019	Rainfed Medium land	Alfisol	112	23	265	Maize	12.07.2019	02.11.2019		
Rice	Kharif 2019	Rainfed Medium land	Alfisol	124	21	271	No	02.07..2019	9.11.2019		
Maize	Kharif 2019	Rainfed Medium land	Alfisol	104.6	24.1 -	248.8	Maize	15.07.2019	12.11.2019		
Green gram	Rabi,2019	Rainfed Upland	Alfisol	104.6	24.1 -	248.8	Maize	15.07.2019	12.11.2019		
Onion	Rabi,2019	Rainfed Upland	Alfisol	112	23	265	Maize	12.07.2019	02.11.2019		
Cauliflower	Rabi,2019	Rainfed Upland	Alfisol	124	21	271	No	02.07..2019	9.11.2019		

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

Pulses:

Frontline demonstrations on Pulses 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

blackgram	Yield Increase Ipm And Idm	• Improved variety PU- 31 • Line sowing (30*10 cm) • Recommended dose of Fertilizer(RDF)NPK -20:40:40 kg/ha Foliar sprayed of multi micro-nutrients @ (Allwin wonder plus) @ 2ml/lit once at pre-flowering stage and allwin top plus @ 2 ml/lit at post flowering stage. • Applied Fungicide carbendazim 12%+mancozeb63% @1.5 ml /lit for control of brown spot and other leaf spot. • Applied insecticide @ Deltamethrin1%+trizaphos35 %@ 2 ml /lit to control pod borer And stem borer and Acetamiprid 20% @ 2 ml/lit to control white fly. •	50	20	4.85	3.65	19.16	10200.00	18188.00	7988.00	1.78:1	9375.00	13687.50	4312.50	1.46:1
Total				20	4.85	3.65	19.16	10200.00	18188.00	7988.00	1.78:1	9375.00	13687.50	4312.50	1.46:1

* 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

Oilseeds

Frontline demonstration 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	Yield Increase Ipm And Idm	Improved variety ICGV91114(Devi) ,Line sowing (30x10cm), Foliar sprayed multimicronutrient 2 ml/lit once at preflowering stage for better, spayed Chlorothalonil 75%WP 2gm/lit of water for control of Cercospora Leaf spot, • Recommended dose of fertilizer 20:40:20 Application of deltamethrin+triazophos @2 ml/lit. Application of imazethapyr@1.5 ml/lit for control of weeds	280	130	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Fielriced	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field
	Total		280	130											

* 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	No. of Farme	Are a	Yield (q/ha)	% chang	Other parameters	*Economics of demonstration (Rs./ha)	*Economics of check (Rs./ha)

		demonstrated	r	(ha)	Demonstration	Check	e in yield	Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rice	Varietal Substitution	**Hasanta (OR-2328-5) Var. Hasanta (OR-2328-5) 145-150 days, medium slender, panicle length: 27.8 cm; average yield:55-60 q/ha; tolerant to BPH; Adaptability in rainfed & irrigated medium land**	10	1	41.35	35.75	15.66	**No. BPH /hill-0**	**No. BPH /hill-0**	27500	74430	46930	2.71	25100	64350	39250	2.56
Rice	Weed Management	**Pre émergence application of herbicide (Bensulfuron methyl 0.6%+ Pretilachlor 6.0%) @ 10 kg/ha at 4 DAT**	10	1	**34.85**	30.95	5.95	**Weed Biomass(g/m^2) at 45 DAT=26.85 WCE= 79.24%**	**Weed Biomass(g/m^2) at 45 DAT=46.45, WCE= 69.89 %**	27000	62730	35750	2.32	25100	55710	30610	2.2
Maize	Weed Management	**Pre-emergence application of Atrazine @ 1kg/ha at 3-5 DAS followed by 2,4 D @ 1kg/ha as post emergence spray at 20-25 DAS.**	1	1	56.15	52.5	6.95	**Weed biomass (g/m^2) = 197.7 WCE (%) =87.16**	**Weed biomass(g/m^2) =319.2 WCE (%)= 72**	46000	91225	45225	2.16	44000	81750	37750	1.92

Direct Seeded Rice	Weed Management	**Application of pyrazosulfuron @ 20 g/ha as pre-emergence stage i.e 0-3 DAS followed by Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAS**	10	1	**34.50**	28.65	20.42	**Weed Biomass(g/ m^2) at 45 DAT=60.70, WCE= 86.24%**	**Weed Biomass(g/ m^2) at 45 DAT=175.50 , WCE= 61.75 %**	24500	58650	34150	2.39	21500	48700	27205	2.26
rice	idm	**Seed treatment with carboxin 37.5% + thiram 37.5% @2.5 gm/kg and foliar spraying of tricyclazole @ 0.06% twice at 15 days interval starting from the initiation of disease**	10	1	37..5	29.75	**26.89**	**(% disease infestation)** In dermo plots is 22%	**(% disease infestation)** In checks plots is 34%	26500	50625	24125	1.9	25500	39825	14825	1.59
rice	idm	**Spraying of combined fungicide Azoxystrobin+ difenconazole @ 1ml/l twice at 15 days interval starting from initiation of the infection**	10	1	37	31	**19.35 %**	**Disease incidence % No. of hill affected/sq.m In demo is21% , 10 nos**	**Disease incidence % No. of hill affected/sq.m In demo is 38% , 24 nos**	24400	48300	23900	1.9	18600	33100	14500	1.7
Brinjal	IPM	**Application of neem cake @ 250 kg/acre with soil test based RDF with balanced nitrogen application. Installation of blue trap @ 25 no/ha & Application of Etoxazole 10 % SC @ 40 gm a.i /ha**	10	1	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Fielriced	Crop is still in Field	Crop is still in Field	Crop is still in Fiel d	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Fiel d

Onion	IPM	**Plant maize (2 rows) as border crop 30 days prior to the transplanting of onion crop Need based alternate spray of Methomyl @ 0.8g/l at 30 DAT (with spreader @ 0.5-1%) and Profenophos @ 160 g a.i/ ha at 10 days interval**	10	1	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Fielriced	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field
Tomato	Yield increase	Wilt resistant hybrid tomato variety Arka Rakshak.	10	1	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Fielriced	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field	Crop is still in Field
maize	LCC	N (LCC) ,(P,K - STBFA -75:60 P,K Kg /ha) ,. FYM 5ton /ha , DAP -163 Kg basal , MOP 50 Kg Basal + 50Kg at 21 DAS .Top dressing of urea 62.5 Kg / ha based on LCC reading from 21 DAS up to initiation of flowering	10	1	**82.03**	**51.91**	**58.02**	**250 Kg**	300KG	47500	131248	83748	2.76	42000	83056	41056	1.98
Green gram	Nutrient Management	**Application of sulphur @ 30 Kg /ha along with Soil Test Based NPK (25 : 50: 40) Kg /ha**						**Crop is at reproductive stage**									

Onion	Nutrient Management	**Application of sulphur @ 45 kg /ha along with Soil test based N:P:K (120:40:60) Kg /ha + vermicompost 7.5 ton /ha**						**Crop is in the field**									
Cauliflower	Nutrient Management	**Foliar application of 50 ppm B and 25 ppm Mo at 30 DAT , 45 DAT and 60 DAT along with soil test based dose of NPK (120 : 40 :60) Kg /ha .+ 10 ton FYM /ha**						**Crop is in the field**									
	Total																

Livestock : N.A

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

Sheep and goat																		
Duckery																		
Others (pl.specify)																		
Total																		

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

** BCR= GROSS RETURN/GROSS COST

Fisheries :N.A

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 :N.A

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 :N.A

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 :N.A

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 :N.A

Crop	Name of	No. of	Area	Yield (kg/ha) / major parameter	Economics (Rs./ha)

	the Hybrid	farmers	(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										
Green gram										
Black gram										
Benga lgram										
Red gram										
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	BPH tolerant Rice var. Hasanta	Good variety tolerant to BPH and having good harvest
2	Finger millet	Finger millet var. Arjun is a very good variety with good harvest

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	15.11.2019	2	100	
2.	Farmers Training	02.10.2019	3	75	
3.	Media coverage				
4.	Training for extension functionaries				

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2019 and Rabi 2019:

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 Kharif2019	Indiscriminate local var	3.65	4.25	5.07	6.0	Improved variety PU- 31 Line sowing (30*10 cm) Recommended dose of Fertilizer(RDF)NPK -20:40:40 kg/ha Foliar sprayed of multi micro-nutrients @ (Allwin wonder plus) @ 2ml/lit once at pre-flowering stage and allwin top plus @ 2 ml/lit at post flowering stage. Applied Fungicide carbendazim 12%+mancozeb63% @1.5 ml /lit for control of brown	50	20	5.2	4.5	4.85	14.11	-4.33	-19.16

							spot and other leaf spot. Applied insecticide @ Deltamethrin1%+triazaphos35%@ 2 ml /lit to control pod borer And stem borer and Acetamiprid 20% @ 2 ml/lit to control white fly.								

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	1. Improved variety PU-31 2. Line sowing (30x10cm) RDF,20:40:40,NPK kg/ha Foliar sprayed of multi micro-nutrients(Allwin wonder plus) @ 2ml/lit once at pre-flowering stage and Allwin top plus @ 2 ml/lit at post flowering stage. Applied Fungicide carbendazim 12%+mancozeb63% @1.5 ml /lit for control of brown spot and other leaf spot. • Applied insecticide @ Deltamethrin1%+trizaphos35%@2 ml /lit to control pod borer And stem borer and Acetamiprid 20% @ 2 ml/lit to control white fly.	9375.00	13687.50	4312.50	1.46:1	10200.00	18188.00	7988.00	1.78:1

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)
	Black Gram var-PU-31	9700	9500	37.50	200	Nil	Household	25

D. Pulses 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
	• Improved variety PU- 31 • Line sowing (30*10 cm) • Recommended dose of Fertilizer(RDF)NPK -20:40:40 kg/ha • Foliar sprayed of multi micro-nutrients @ (Allwin wonder plus) @ 2ml/lit once at pre-flowering stage and allwin top plus @ 2 ml/lit at post flowering stage. • Applied Fungicide carbendazim 12%+mancozeb63% @1.5 ml /lit for control of brown spot and other leaf spot. • Applied insecticide @	Yes	Yes	Yes	No	Yes	Technology accepted by the farmers ,the problem is the processing of seeds for marketable price hence support may be given Establishment of mini dal processing unit.

	Deltamethrin1%+trizaphos 35%@ 2 ml /lit to control pod borer And stem borer and Acetamiprid 20% @ 2 ml/lit to control white fly. •						

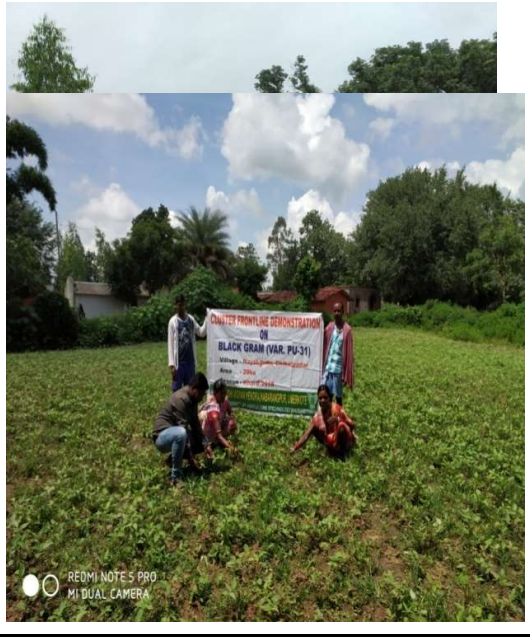
E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Blackgram Var PU-31 is short duration having 65-70 days and early flowering.	Very good	Early maturity and better yield in comparison to local variety	1.Germination of the varietyPU-31 is good.
			2.YMV and leaf spot resistance
			3.Early flowering

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	**Awareness programme**	**8.8.2019**	**20**
2	**Field visit**	**26.9.2019**	**25**
3	**FIELD DAY**	**27.11.2019**	**50**

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




CLUSTER FRONTLINE DEMONSTRATION
ON
BLACK GRAM (VAR. PU-31)
Village - Nayakguda, Chikalpadar
Area - 20ha
Season - Kharif 2019
KRISHI VIGYAN KENDRA,NABARANGPUR, UMERKOTE
REDMI NOTE 5 PRO
MI DUAL CAMERA


CLUSTER FRONTLINE DEMONSTRATION
ON
BLACK GRAM (VAR. PU-31)
Village - Mayakguda, Chikalpadar
Area - 20ha
Season - Kharif 2019
KRISHI VIGYAN KENDRA,NABARANGPUR, UMERKOTE
(ODISHA UNIVEPSITY OF AGRICULTURE &TECHNOLOGY,BHUBANESWAR)


CLUSTER FRONTLINE DEMONSTRATION
ON
BLACK GRAM (VAR. PU-31)
Village - Nayakguda, Chikalpadar
Area - 20ha
Season - Kharif 2019
KRISHI VIGYAN KENDRA,NABARANGPUR, UMERKOTE


CLUSTER FRONTLINE DEMONSTRATION
ON
BLACK GRAM (VAR. PU-31)
Village - Nayakguda, Chikalpadar
Area - 20ha
Season - Kharif 2019
KRISHI VIGYAN KENDRA,NABARANGPUR, UMERKOTE

H. Farmers' training photographs

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

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input			
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total	178800	178443	357

3.3

3.4

3.5 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													

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
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													
Others													
Total													
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Off0season vegetables													
Nursery raising													
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management													
Integrated water management													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
others													
Total													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
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													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition													
Women empowerment													
Location specific drudgery reduction technologies													
Rural Crafts													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Women and child care													
Mushroom cultivation & Herbal garden	2	0	9	9	4	24	28	4	9	13	8	42	50
Total													
VI. Agril. Engineering													
Farm machinery & its maintenance													
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													
Total													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
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													
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
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													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL	2	0	9	9	4	24	28	4	9	13	8	42	50

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
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops	2	8	0	8	10	0	10	12	0	12	30	0	30
Commercial fruit production													
Integrated farming	1	0	0	0	3	0	3	12	0	12	15	0	15
Seed production													
Production of organic inputs	1	0	0	0	7	0	7	8	0	8	15	0	15
Planting material production													
Vermiculture													
Mushroom Production	4	11	5	16	16	3	19	14	11	25	41	19	60
Beekeeping	1	5	0	5	0	0	0	10	0	10	15	0	15
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	2	0	2	1	0	1	10	2	12	13	2	15
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others(ORGANIC INPUTS)	3	11	2	13	0	0	0	26	6	30	37	8	45
Total	13	37	7	44	37	3	40	92	19	109	166	29	195

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	15	0	15	0	0	0	0	0	0	15	0	15
Integrated Pest Management	2	30	0	30	0	0	0	0	0	0	30	0	30
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs	1	15	0	15	0	0	0	0	0	0	15	0	15
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													

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
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security	1	0	13	13	0	1	1	0	1	1	0	15	15
Other													
Total	5	60	13	13	0	1	1	0	1	0	60	15	75

D) Farmers and farm women (off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	2	0	0	0	6	10	16	18	16	34	24	26	50
Resource Conservation Technologies													
Cropping Systems	1	0	0	0				12	13	25	12	13	25
Crop Diversification	2	0	0	0	9	4	13	22	15	37	31	19	50
Integrated Farming	1	0	0	0									
Micro irrigation/irrigation	1	0	0	0	0	0	0	12	13	25	12	13	25
Seed production													
Nursery management	1	0	0	0	5	2	7	11	7	18	16	9	25
Integrated Crop Management	1	0	0	0	3	0	3	14	8	22	17	8	25
Soil & water conservation		0	0	0									
Integrated nutrient Management													
Production of organic inputs	2	0	0	0	3	0	3	15	7	22	18	7	25
Others													
Total													
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops	2	0	0	0	1	0	1	33	15	49	34	16	50
Off0season vegetables													
Nursery raising													
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)													
b) Fruits													
Training and Pruning	1	13	0	13	0	0	0	12	0	12	25	0	25
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Micro irrigation systems of orchards													
Plant propagation techniques													
Others													
Total (b)													
c) Ornamental Plants	1	0	0	0	0	0	0	16	9	25	16	9	25
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management	1	1	2	3	3	0	3	10	9	19	14	11	25
Integrated water management													
Integrated Nutrient Management	7	18	5	23	15	3	18	91	44	135	119	56	175
Production and use of organic inputs	1	0	0	0	4	2	6	9	10	19	13	12	25
Management of Problematic soils													
Micro nutrient deficiency in crops	1	15	5	20	1	0	1	4	0	4	16	9	25
Nutrient Use Efficiency													
Balance Use of fertilizer	1	1	0	1	0	0	0	19	5	24	20	5	25
Soil & water testing	1	1	2	3	3	0	3	10	9	19	14	11	25
others													
Total													
IV. Livestock Production and Management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	1	0	0	0	1	0	1	5	19	24	6	19	25
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition	2	0	3	3	0	1	1	16	30	46	16	34	50
Women empowerment													
Location specific drudgery reduction technologies	1	0	17	17	0	3	3	0	5	5	0	25	25
Rural Crafts													
Women and child care													
Mushroom & Hearbal graden	3	2	9	11	6	9	15	16	33	49	24	51	75
Total	8	2	29	31	7	14	21	37	111	148	46	154	200
VI. Agril. Engineering													
Farm machinery & its maintenance													
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													
Total													
VII. Plant Protection													
Integrated Pest Management	7	25	20	45	10	3	13	101	16	117	136	39	175
Integrated Disease Management	4	2	2	4	0	0	0	74	22	96	76	24	100
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others	1	0	0	0	0	0	0	23	2	25	23	2	25
Total	12	27	22	49	10	3	13	198	40	238	235	65	300
VIII. Fisheries													

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 fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
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													
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
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													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL	59	105	87	192	80	41	121	741	371	1113	917	508	1425

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
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming													
Seed production													
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping													
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing 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
Fry and fingerling rearing													
Others													
Total													

F) Extension Personnel (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other													
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	2	0	0	0	6	10	16	18	16	34	24	26	50
Resource Conservation Technologies													
Cropping Systems	1	0	0	0				12	13	25	12	13	25
Crop Diversification	2	0	0	0	9	4	13	22	15	37	31	19	50

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Integrated Farming	1	0	0	0									
Micro irrigation/irrigation	1	0	0	0	0	0	0	12	13	25	12	13	25
Seed production													
Nursery management	1	0	0	0	5	2	7	11	7	18	16	9	25
Integrated Crop Management	1	0	0	0	3	0	3	14	8	22	17	8	25
Soil & water conservation		0	0	0									
Integrated nutrient Management													
Production of organic inputs	2	0	0	0	3	0	3	15	7	22	18	7	25
Others													
Total													
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops	2	0	0	0	1	0	1	33	15	49	34	16	50
Off0season vegetables													
Nursery raising													
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)													
b) Fruits													
Training and Pruning	1	13	0	13	0	0	0	12	0	12	25	0	25
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													
Total (b)													
c) Ornamental Plants	1	0	0	0	0	0	0	16	9	25	16	9	25
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
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													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management	1	1	2	3	3	0	3	10	9	19	14	11	25
Integrated water management													
Integrated Nutrient Management	7	18	5	23	15	3	18	91	44	135	119	56	175
Production and use of organic inputs	1	0	0	0	4	2	6	9	10	19	13	12	25
Management of Problematic soils													
Micro nutrient deficiency in crops	1	15	5	20	1	0	1	4	0	4	16	9	25
Nutrient Use Efficiency													
Balance Use of fertilizer	1	1	0	1	0	0	0	19	5	24	20	5	25
Soil & water testing	1	1	2	3	3	0	3	10	9	19	14	11	25
others													
Total													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
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													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition													
Women empowerment													
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care													
Others													

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													
VI. Agril. Engineering													
Farm machinery & its maintenance													
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													
Total													
VII. Plant Protection													
Integrated Pest Management	7	25	20	45	10	3	13	101	16	117	136	39	175
Integrated Disease Management	4	2	2	4	0	0	0	74	22	96	76	24	100
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others	1	0	0	0	0	0	0	23	2	25	23	2	25
Total	12	27	22	49	10	3	13	198	40	238	235	65	300
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
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													
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													

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													
Apiculture													
Others													
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													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND 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
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops	2	8	0	8	10	0	10	12	0	12	30	0	30
Commercial fruit production													
Integrated farming	1	0	0	0	3	0	3	12	0	12	15	0	15
Seed production													
Production of organic inputs	1	0	0	0	7	0	7	8	0	8	15	0	15
Planting material production													
Vermiculture													
Mushroom Production	1	4	0	4	4	0	4	7	0	7	15	0	15
Beekeeping	1	5	0	5	0	0	0	10	0	10	15	0	15
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others(ORGANIC INPUTS)	3	11	2	13	0	0	0	26	6	30	37	8	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	15	0	15	0	0	0	0	0	0	15	0	15
Integrated Pest Management	2	30	0	30	0	0	0	0	0	0	30	0	30
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs	1	15	0	15	0	0	0	0	0	0	15	0	15
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other													
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

a) 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

b) Details of participation

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 production and management													
Commercial floriculture													
Commercial fruit production													
Commercial vegetable production													
Integrated crop management													
Organic farming													

Other													
Total													
Post harvest technology and value addition													
Value addition													
Other													
Total													
Livestock and fisheries													
Dairy farming													
Composite fish culture													
Sheep and goat rearing													
Piggery													
Poultry farming													
Other													
Total													
Income generation activities													
Vermicomposting													
Production of bioagents, biopesticides,													
biofertilizers etc.													
Repair and maintenance of farm machinery & imlements													
Rural Crafts													
Seed production													
Sericulture													
Mushroom cultivation													
Nursery, grafting etc.													
Tailoring, stitching, embroidery, dying etc.													
Agril. Para-workers, para0vet training													
Other													
Total													
Agricultural Extension													
Capacity building and group dynamics													
Other													
Total													
Grand Total													

I) Sponsored Training Programmes

a) Details of Sponsored Training Programme

Sl.No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of participants	Sponsoring Agency
					PF/RY/EF			
1	Mush room grow er	Income generatio n	March 2019	25 days	RY	1	20	ASCI

b) Details of participation

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 production and management													
Increasing production and productivity of crops													
Commercial production of vegetables													
Production and value addition													
Fruit Plants													
Ornamental plants													
Spices crops													
Soil health and fertility management													
Production of Inputs at site													
Methods of protective cultivation													
Other													
Total													
Post harvest technology and value addition													
Processing and value addition													
Other													
Total													
Farm machinery													

Farm machinery, tools and implements													
Other													
Total													
Livestock and fisheries													
Livestock production and management													
Animal Nutrition Management													
Animal Disease Management													
Fisheries Nutrition													
Fisheries Management													
Other													
Total													
Home Science													
Household nutritional security													
Economic empowerment of women													
Drudgery reduction of women													
Mushroom grower	1	4	1	5	4	2	6	6	3	9	14	6	20
Total													
Agricultural Extension													
Capacity Building and Group Dynamics													
Other													
Total													
Grant Total	1	4	1	5	4	2	6	6	3	9	14	6	20

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	2	40	60	100	100	4	1	5	44	61	105
Kisan Mela	1	105	195	300	100	5	2	7	110	197	307
Kisan Ghosthi	-	-	-	-	-	-	-	-	-	-	-
Exhibition	1	150	120	270	100	10	2	10	160	122	280
Film Show	21	252	378	630	90	5	2	7	257	380	637
Method Demonstrations	-	-	-	-	-	-	-	-	-	-	-
Farmers Seminar		-	-	-	-	-	-	-	-	-	-
Workshop		-	-	-	-	-	-	-	-	-	-
Group meetings	13	140	185	325	95	4	2	6	144	187	331
Lectures delivered as resource persons	36	855	1080	1935	75	52	9	61	907	1089	1996

Advisory Services	14	125	35	160	100	6	2	8	131	37	168
Scientific visit to farmers field	170	810	32	842	80	12	3	15	822	35	857
Farmers visit to KVK	3250	2522	728	3250	70	22	7	29	2544	735	3279
Diagnostic visits	172	1364	396	1760	60	24	5	29	1388	401	1789
Exposure visits	2	12	0	12	90	3	0	4	16	0	16
Ex-trainees Sammelan	3	60	15	75	85	5	2	7	65	17	82
Soil health Camp	4	150	50	200	80	5	2	7	160	52	212
Animal Health Camp	--	-	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	50	650	350	1000	70	15	5	20	665	355	1020
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	5	135	115	250	75	12	5	17	147	120	267
Sankalp Se Siddhi	--	-	-	-	-	-	-	-	-	-	-
Swatchta Hi Sewa	36	375	345	720	80	15	7	21	390	352	742
Mahila Kisan Divas	01	0	50	50	85	2	2	4	2	52	54
Any Other (Specify)											
Total											

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	12
Radio talks	--
TV talks	-
Popular articles	-
Extension Literature	7
Other, if any	

3.5 a. Production and supply of Technological products

Village seed NA

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

Total												

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Grand Total											

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Vegetable seedlings											
Cauliflower	Hyb	3000	1500	100	0	150	0	50	0	300	0
Cabbage	Hyb	3000	1500	90	0	160	0	50	0	300	0
Tomato	Hyb	3000	1500	80	0	150	0	70	0	300	0
Brinjal	Hyb	3000	1500	105	0	145	0	50	0	300	0
Chilli	Hyb	1500	750	20	0	70	0	60	0	150	0
Onion	Hyb	1500	750	25	0	65	0	60	0	150	0
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		15000		420	0	740	0	340	0	1500	0

Production of Bio-Products

Name of product	Quantity Kg	Value (Rs.)	No. of Farmers benefitted							
			SC		ST		Other		Total	
			M	F	M	F	M	F	M	F
Bio-fertilizers										
Bio-pesticide										
Bio-fungicide										
Bio-agents										
Veremicompost	2000 kg	10000	15	0	20	0	40	0	75	0
Total	2000	1000	15	0	20	0	40	0	75	0

Production of livestock materials-NA

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Dairy animals											
Cows											
Buffaloes											
Calves											
Others (Pl. specify)											
Small ruminants											
Sheep											
Goat											
Other, please specify											
Poultry											
Broilers											
Layers											
Duals (broiler and layer)											
Japanese Quail											
Turkey											
Emu											
Ducks											
Others (Pl. specify)											
Piggery											
Piglet											
Hog											
Others (Pl. specify)											
Fisheries											
Indian carp											

Exotic carp											
Mixed carp											
Fish fingerlings											
Spawn											
Others (Pl. specify)											
Grand Total											

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

i) Name of Seed Hub Centre: NA

Name of Nodal Officer :	
Address :	
e-mail :	
Phone No. : Mobile :	

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2018						
Rabi 2018-19						
Summer/Spring 2019						
Kharif 2019						
Rabi 2019-2020						

iii) Financial Progress

Fund received (2016-17, 2017-18 and 2018-19)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2016-17				
2017-18				
2018-19				
2019-2020				

iv) Infrastructure Development : N.A

Item	Progress
Seed processing unit	

Seed storage structure	

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

Item	Title	Author's name	Number	Circulation
Research paper				
Seminar/conference/ symposia papers				
Books				
Bulletins				
News letter				
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature	1. Marigold Cultivation	Dr. N. Bar Mis. B.Taria	500	Mass
	2. Disease and Insect pest management in Rice	Dr. N. Bar Sh. P. Murmu	500	
	3. Techniques of vermicompost production	Dr. N. Bar Sh. R.P.Mohalik	500	
	4. Mushroom Cultivation(Oyster)	Dr. N. Bar Mrs. S.Sahoo	500	
	5. Paddy straw mushroom cultivation	Dr. N. Bar Mrs. S.Sahoo	500	
	6.Techniques of soil sample collection and analysis	Dr. N. Bar Dr. G.C.Sahoo	1000	
	7. Scientific method of Black gram cultivation	Dr. N. Bar Sh.R.P.Mohalik Sh. P. Murmu	500	
Technical reports				
Electronic Publication (CD/DVD etc)	Fertiliser application awareness programme	KVK	1	
TOTAL			4001	

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: N.A

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

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

Name of farmer	Sh. Sujit Das
Address	Vill.UV-2,Badakumari,Block-Umerkote,Dist.-Nabarangpur,Odisha
Contact details (Phone, mobile, email Id)	9777173435
Landholding (in ha.)	3.6 ha
Name and description of the farm/ enterprise	Sh.Sujit Das is a role model for other farmers of the district in **Integrated Farming System** approach for sustainable production with attractive return. He is operating in 3.6 ha of land having pond area 1 ha , grafted brinjal-0.4 ha, hyb. Chilli-0.4 ha, cauliflower-1 ha, cowpea-0.2 ha ,bitter gourd-0.2 ha b, beans-0.4 ha , green pea-0.8 ha , hyb. Napiar-0.4 ha , with 10 no. of cows, 10 no. of ducks. He is producing vermicompost by utilizing the farm by-products with *Eudrillud euginea* and utilisatiing it for crop production in his farm. He utilizes the techniques of integrated nutrient management and integrated pest management in his farm. He produces 30 qtls. Of fish, 15 tons of brinjal, 1 tonns of chilli, 20 tones of cauliflower, 2 tones of cowpea, 3 tones of bitter gourd, 5 tones of beans, 2 tones of green pea annually. He gets 8 tones of hyb. Napiar grass, 2000 lits. Of milk, 1500 no. of duck eggs. He produces around 20 tones of vermicompost which is utilized in his own farm
Economic impact	

Sl.No.	*Name of the crop*	*Area*	*Production*	*Cost of cultivation*	*Gross return*	*Net Return*
1	**Fish**	**1 ha**	**3 tons**	**1,00,000**	**4,50,000**	**3,50,000**
2	**Grafted Brinjal**	**0.4 ha**	**15 tons**	**40,000**	**3,00,000**	**2,60,000**
3	**Chilli**	**0.4 ha**	**1 ton**	**30,000**	**1,00,000**	**70,000**
4	**Cauliflower**	**1ha**	**20 tons**	**50,000**	**4,00,000**	**3,50,000**
5	**Cowpea**	**0.2 ha**	**2 tons**	**20,000**	**80,000**	**60,000**
6	**Bitter gourd**	**0.2 ha**	**3 tons**	**20,000**	**1,20,000**	**1,00,000**
7	**Beans**	**0.4 ha**	**5 tons**	**30,000**	**1,50,000**	**1,20,000**
8	**Green pea**	**0.8 ha**	**2 tons**	**20,000**	**80,000**	**60,000**
9	**Hyb. Napiar**	**0.4ha**	**30 tons**	**60,000**	**Grass used for cattle feed**	
10	**Cow**	**10 nos.**	**10000 lit.**		**2,50,000**	**1,90,000**

	11	**Duck**	**10 nos.**	**1500 no. of duck eggs**	**2000**	**7500**	**5500**
		Total	**3.6 ha**		**3,72,000**	**19,37,500**	**15,65,500**
Social impact	Many farmers of his village and adjacent villages are following his techniques of farming with attractive return. Out of them 8 farmers already started their farm with proper guidance of KVK Scientist.						
Environmental impact	He is growing vegetables totally organically with his own produced vermicompost and time to time he purchased vermicompost from KVK						
Horizontal/ Vertical spread	8 farmers have adopted his approach of Integrated Farming System in different villages						

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

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

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

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

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1	Rice	20 ha	--	20	Y

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

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed
1	PRA	
2	Group discussion	
3	Individual interview	

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

Sl. No	Name of the Equipment	Qty.
1	pH meter	1 no.
2	EC meter	1 no.
3	Spectrophotometer	1 no.
4	Flame photometer	1 no.
5	Digital balance	1 no.
6	Mechanical shaker	1 no.

7	Hot air oven	1 no.
8	N-Autoanalyser	1 no.
9	Mridaparikshyak	1 no.
10	Hydrometer	1 no.

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
300	0	300	300	13	0.00

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	Farmer Scientist Interaction	200	4	I. Sh. Sadasib Pradhani, MLA, Nabarangpur II. Sh. Manahar Randhari, MLA, Dabugaon I. Smt. Bhagabati Bhatra,President, Zilla Parishad . Smt. Hiramani Pujari, Chairperson, Panchyat Samiti	200	200

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

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 :N.A

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

3.14. RAWE/ FET programme - is KVK involved? (Y/N)- NO

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
18.07.20169	Miss.Khusboo Sayeed, NITI AAYOG	Nutritional security
25.09.2019	Dr.Prakash Kr Rathod, Scientist, ICRISAT	Acid soil management
06.11.2019	SH.P.L Nayak, Jt. Secretary,AG & FE	District Nodal Officer
16.11.2019	Sh. Bhaskar Raito,Sub-Collector, Nabarangpur	SAC Meeting
16.11.2019	Dr. Avijit Haldar,Pr.Scientist, ICAR-ATARI,Kolkata	SAC Meeting

4. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Mushroom cultivation	85	100%	0.00	Rs. 250/- per Bed(farmers are growing a minimum of 200 beds per year)

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants

4.2. Cases of large scale adoption
(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread
Mushroom cultivation	About 67 villages of the district have adopted the the technology
Rearing of poultry bird Banaraja breed	25 villages of the district have adopted the technology

Give information in the same format as in case studies

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

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms

4.4. Details of innovations recorded by the KVK : N.A

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

4.5. Details of entrepreneurship development

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

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
ASCI,New Delhi	Sponsored trainings on Mushroom cultivation and Vermicomposting for Rural Youth
ICRISAT, Hyderabad	MLT trial on Bengal gram

5.2. List of special programmes undertaken during 2018-19 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

a) Programmes for infrastructure development

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

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

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

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area(Sq.mt)	Details of production			Amount (Rs.)		Remarks
				Variety/ breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Poll House	2018	2 cents.	Hyb var.	Vegetable seedlings	13500 nos.	Rs. 3000	Rs.13500	
2.	Vermicomposting unit	2012	1 cents.	Vermicompost by Eudrillus eugenea	vermicompost	Vermicompost-10q, Vermiworm-10 kg	Rs.2000	Rs.5000	
3.	Herbal Garden	2018	5 cents.	Medicinal plants	Seedlings	---	---	---	
4.	Mushroom production unit	2018	200 beds	Oyster mushroom and paddy straw mushroom	Mushroom	2 q	Rs. 6500	Rs. 20000	
5	Tissue culture Banana	2017	100 nos.	G-9	Green Banana	2.5 q	Rs. 5000	Rs.30,000	
6	Mango	2012	36 nos. of plant	Amrapalli	Mango Fruit	8 q	Rs. 1500	Rs. 7000	
	Total							Rs.	

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 var. Sahabhagi	23.07.2019	12.11.2019	1.5	Sahabhagi	Foundation	46	60000	1,28800	

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	1000	2000	5000	

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

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.							
2.							
3.							

6.5. Utilization of hostel facilities : N.A

Accommodation available (No. of beds)

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

(For whole of the year)

6.6. Utilization of staff quarters

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

Months	Q I	QII	Q III	QIV	Q V	QVI
	7 nos. of Old damaged quarter					

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, Umerkote	11258555265
Revolving Fund	State Bank of India	Bazar Branch, Umerkote	31842335858

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		Rs. 0.00	-	Rs. 1428957	Rs. 131043 to be spent

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	
Black gram	Rs.1,80000	--	Rs. 1,78443	--	Rs. 357

2019.5. Utilization of KVK funds during the year 2019-20 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	Rs. 83.0 lakh	Rs. 83.0 lakh	Rs. 5382645
2	Traveling allowances	Rs.100000	Rs.75000	Rs. 75000
3	Contingencies			
A	TSP	Rs. 13.7 lakh	Rs. 1033800	Rs. 1129892
B	Swachhta Expenditure	0.00	0.00	0.00
TOTAL (A)		Rs. 9770000	Rs. 9408800	Rs. 6587537
B. Non-Recurring Contingencies				
1				
2				
3				
4				
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
2015-16				
2016-17				
2017-18	Rs.90,387/-	1,08,790/-	91,144.6	
2018-19	Rs. 30972.10	Rs.318197	159454.85	

2019-20	Rs. 489868.75	Rs. 56820	Rs. 373193.30	

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

A total of 86 SHGs have been engaged with Mushroom cultivation, Banaraja poultry rearing, 200 nos. of Improved sickle, 200 nos. of maize sheller distributed to them.

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	With both
BGREI	10	Kharif ,2019	DDA,Nabarangpur	ATMA, Nabarangpur	Both
Demonstration	12	Kharif, 2019	--	ATMA, Nabarangpur	--
World Soil Day	1	Rabi,2019	DDA,Nabarangpur	..	--

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)
Fall Army Worm	Maize	01.12.2018	10,000 ha	12 %	10,000 ha

8.2. Prevalent diseases in Livestock/Fishery : N.A

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

9.1. Nehru Yuva Kendra (NYK) Training : N.A

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 : N.A

Date of organizing	Resource Person	No. of participants	Registration (crop wise)

the programme				
			Name of crop	No. of registration

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

Type of message	No. of messages	No. of farmers covered
Crop	45	19400
Livestock		
Fishery		
Weather		
Marketing		
Awareness		
Training information	15	3500
Other		
Total	60	22900

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	*352*
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 Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
Five programmes in a month	Cleaning of office campus,demo units, Motivation and cleaning of villages

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	-	**0.00**
2. Basic maintenance	2	**0.00**
3. Sanitation and SBM	5	**0.00**
4. Cleaning and beautification of surrounding areas	12	**0.00**
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	13	**0.00**

6. Used water for agriculture/ horticulture application	3	**0.00**
7. Swachhta Awareness at local level	5	**0.00**
8. Swachhta Workshops	-	**0.00**
9. Swachhta Pledge	-	**0.00**
10. Display and Banner	-	**0.00**
11. Foster healthy competition		**0.00**
12. Involvement of print and electronic media	-	**0.00**
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	1	**0.00**
14. No of Staff members involved in the activities	11	**0.00**
15. No of VIP/VVIPs involved in the activities	-	**0.00**
16. Any other specific activity (in details)	-	**0.00**
Total	**49**	**0.00**

9.6. Observation of National Science day: N.A

Date of Observation	Activities undertaken
-	-

9.7. Programme with Seema Suraksha Bal/ BSF :N.A

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
S.S Bal Mandir, Umerkote, Nabarangpur	02.10.2019	Swacchata Hi Sewa	Leaflet, Pen, Marker
Semala Govt. School	12.09.2019	Nutrition Security	Seed kits distribution, leaflet

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

Date of programme	No. of Union Ministers attended the programme	No. of Hon'ble MPs (Loksabha/ Rajyasabha) participated	No. of State Govt. Ministers	Participants (No.)							Coverage by Doordarshan (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		
08.03.2019	--	--	5	--	--	--	--	210	2	217	--	2 nos.

9.10. Details of Swachhta Hi Sewa programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Cleaning of office campus,demo units, Motivation and cleaning of villages	17	515	--	--

9.11. Details of Mahila Kisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Awareness on drudgery reduction	7	54	-	-

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	Sh. Sujit Das	Vill-UV-2, Badakumari, Umerkote, Nabarangpur	IFS
2	Sh. Khagapati Bisoi	Vill-B.S Padar,	Vegetable grower

		Jharigaon, Nabarangpur	
3	Jogeswar Naik	Nabarangpur	Mushroom grower
4	Purnachandra Gond	Vill-Karmari,Block-Jharigaon, Dist.-Nabarangpur	IFS

9.13. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.			
2.			
3.			

9.14. Resource Generation:

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

9.15. Performance of Automatic Weather Station in KVK : N.A

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

9.16. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Odisha	Nabarangpur	Crop producti	12	120	FAW, BPH, Stress tolerant rice variety

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

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 2019-2020

Programmes	Physical achievements
Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)	Sprayer-30 nos., Maize sheller-50 nos., Improved sickle -150 nos.,
On-farm trials (Number)	5
Frontline demonstrations (Number)	10
Farmers training (in lakh)	0.0135
Extension personnel training (in lakh)	0.0006
Participants in extension activities (in lakh)	0.02858
Seed production (in tonnes)	5.0
Planting material production (in lakh)	0.135
Livestock strains and fingerlings production (in lakh)	-
Soil, water, plant, manures samples testing (in lakh)	0.003
Provision of mobile agro – advisory to farmers (in lakh)	0.229
No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	Swachha Bharat Abhiyaan-46, Planting material distribution-12, Agriculture knowledge in rural school-2,

b. Fund received under TSP in 2019-20 (Rs. In lakh): Rs. 1033800

c. Achievements of physical outcome under TSP during 2019-2020

Sl. No.	Description	Unit	Achievements
1	Change in family income	%	60
2	Change in family consumption level	%	30
3	Change in availability of agricultural implements/ tools etc.	No. per household	4

d. Location and Beneficiary Details during 2019-2020

District	*Sub-district*	*No. of Village covered*	*Name of village(s) covered*	*ST population benefitted (No.)*		
				M	F	T
Nabarangpur	Nabarangpur	5	Managuda, Chikalpadar, Bhamini,Junapani,B.S Padar , Nayakguda	500	250	750

12. Progress report of NICRA KVK (Technology Demonstration component) during the period (Applicable for KVKs identified under NICRA) : N.A

Natural Resource Management

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

Crop Management

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

Livestock and fisheries

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

Institutional interventions

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

Capacity building

Thematic area	No of Courses	No of beneficiaries

		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T

Extension activities

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

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK : N.A

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

Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
1	OUAT Foundation day award	Laba Dutta	2019	OUAT	--	Outstanding achievement in Crop production

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) : N.A

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

16. Integrated Farming System (IFS) :N.A

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

17. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Mushroom cultivation	➢ Skill ➢ Quality spawn ➢ Forward linkage with retailers	Rs. 150 per Bed	500 nos.	
2	Backyard Poultry	➢ Skill ➢ Dual purpose synthetic bird Banaraja ➢ Forward linkage with retailers	Rs. 200 per bird	500 nos.	

18. Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service : N.A

	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. Information on Visit of Ministers to KVKs, if any : N.A

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

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

20. a) Information on **ASCI** Skill Development Training Programme, if undertaken during 2019

Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants						Whether uploaded to SIP Portal (Y/N)	Fund utilized for the training (Rs.)
				SC		ST		Other			
				M	F	M	F	M	F		
Mushroom grower	Mrs. Shubhasri Sahoo	06.03.2019	30.03.2019	**4**	**2**	**6**	**3**	**4**	**1**	Y	Rs. 1,65,000

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs**., if any) if undertaken during 2019 : N.A

Thematic area of training	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	

21. Information on NARI Project (if applicable) : N.A

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

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

Krishi Kalyan Abhiyan- I and II : N.A

A. Training

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

B. Distribution of seed/ planting materials/ input/ others : N.A

Name of programme	***No. of Programme***	***Total quantity distributed***				***No. of farmers benefited***				***No. of other officials (except KVK) attended the programme***
		Seed	***Planti***	***Input***	***Other***	***SC***	***ST***	***Others***	***Total***	

		d (q)	ng material (lakh)	t (kg)	r (kg/ No.)	M	F	M	F	M	F	M	F	T	
KKA-I															
KKA-II															

C. Livestock and Fishery related activities : N.A

Name of programme	*No. of Programme*	*Activities performed*				*No. of farmers benefited*									*No. of other officials (except KVK) attended the programme*
		No. of animals vaccinated	*No. of animals dewormed*	*Feed/ nutrient supplements provided (kg)*	*Any other (Distribution of animals / birds/ fingerlings) [No.]*	*SC*		*ST*		*Others*		*Total*			
						M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	*T*	
KKA-I															
KKA-II															

D. Other activities : N.A

Name of programme	*Activities*	*No. of farmers benefited*									*No. of other officials (except KVK) attended the programme*
		SC		*ST*		*Others*		*Total*			
		M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	T	
KKA-I	Soil Health Card Distributed										
	NADEP Pit established										
	Farm implements distributed										
	Others, if any										
KKA-II	Soil Health Card Distributed										
	NADEP Pit established										
	Farm implements distributed										
	Others, if any										

Krishi Kalyan Abhiyan- III : N.A

No. of villages covered	*No. of animal inseminated*	*No. of farmers benefitted*									*Any other, if any (pl. specify)*
		SC		*ST*		*Others*		*Total*			
		M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	T	
-	-	-	-	-		-	-	-		-	-

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

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

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

Constitution Day celebration

KVK farm visit of Govt. Girls School students,

Training on Drugdery reduction Maize sheller, Improve sickle, Bhindi plucker

Training on preparation Bio-pesticide(ITK)

World Soil Day

Mushroom production unit visit of

Celebration of Gandhi Javanti at S.S

KVK f Girls

Awareness Cum traing programme on Beekeeping