ANNUAL ACTION PLAN 2017-18 KVK, BHADRAK

Contents

Sl. No.	Particular	Page No
1	Summary of Action Plan during 1 st April 2017 to 31 st March 2018	3
2	General Information	5
3	On Farm Testing	8
4	Frontline Demonstrations	11
5	Feedback System	-
6	Training programmes	17
7	Extension Activities	22
8	Production and supply of Technological products	23
9	Activities of Soil and Water Testing Laboratory	24
10	Rainwater Harvesting System	<u>-</u>
11	Kisan Mobile Advisory	24
12	Details of SAC Meeting	-
13	Literature to be Developed/Published	25
14	Convergence with Agricultural Schemes	-
15	Utilization of Farmer Hostel	-
16	Utilization of Staff Quarter	-
17	Details of KVK Agro-technological Park	25
18	Farm Innovators	-
19	KVK Progressive farmer interaction	-
20	Outreach of KVK	-
21	Technology Demonstrations under TDHPP/Tribal Sub Plan/QPM	-
22	KVK Ring	-
23	Important visitors to KVK	-
24	Status of KVK Website	-
25	Status of RTI	-
26	E-Connectivity (E- Linkage Lab)	-
27	Details of Technology Week Celebrations	-
28	Interventions on Drought Mitigation	-
29	Activities Under NICRA	-
30	Activities under NAIP	-
31	Status of Revolving Funds	-
32	Awards & Recognitions	-
33	Case study / Success Story	-
34	Well labeled photographs of various activities in JPEG format	-

PERIOD – April2017to March, 2018 Summary of the activities

Activity	Tar	get
	Number of activity	No. of farmers/ beneficiaries
OFTs	10	73
FLDs – Oilseeds (activity in ha)	-	-
FLDs – Pulses (activity in ha)	2	20
FLDs – Cotton (activity in ha)	-	-
FLDs – Other than Oilseed and pulse crops(activity in ha)	9	80
FLDs – Other than Crops (activity in no. of Unit/Enterprise)	7	119
Training-Farmers and farm women	67	2105
Training-Rural youths	09	180
Training- Extension functionaries	12	240
Extension Activities	2673	-
Seed Production (Number of activity as seeds in quintal)	390 q	-
Planting material ((Number of activity as quantity of planting material in quintal)	-	-
Seedling Production (Number of activity as number of seedlings in numbers)	38000	-
Sapling Production (Number of activity as number of sapling in numbers)	8500	-
Other Bio- products (No. of quantity)	Vermiculture- 5 kg Vermicompost- 30 q	
Live stock products	600 nos. 21 days brooded chicks	
Activities of Soil and Water Testing Laboratory	Soil- 1000 Water- 200	-
Rainwater Harvesting System	-	-
Kisan Mobile Advisory (KVK-KMA)	80	-

Activity	Tar	get
·	Number of activity	No. of farmers/ beneficiaries
SAC Meeting (Date & no. of core/ official members)	1	30
Literature to be Developed/Published	135	-
Convergence programmes / Sponsored programmes	8	50
Utilization of Farmers Hostel	-	-
Utilization of Staff Quarters	-	-
Details of KVK Agro-technological Park	-	-
Crop Cafeteria-	02	-
Farm Innovators- list of 10 farm innovators from the District	1	-
Status of Revolving Funds	-	-
Awards and Recognitions	-	-
Case study / Success Story to be developed	-	-
KVK Progressive Farmers interaction	-	-
Outreach of KVK in the District (No. of blocks, no. of villages)	-	-
Technology Demonstration under Tribal Sub Plan	-	-
KVK Ring	-	-
Important visitors to KVK	-	-
Status of KVK Website	-	-
Status of RTI	-	-
E-connectivity E-connectivity	-	-
Details of Technology Week Celebrations	-	-
Interventions on Drought Mitigation	-	-
Proposal of NAIP	-	-
Proposal of NICRA	-	-
Well labeled photographs	-	-
Other Activities	-	-

1. GENERAL INFORMATION

1.1. Staff Position (as on 01.04.2017)

Sanctioned post	Name of the incumbent	Discipline	Highest degree	Subject of Specialization	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
Senior Scientist and Head	Dr. Aurovinda Das	Agronomy	Ph.D	Agronomy	15600-39100 & GP-8000	35170	03.09.12	Permanent	Others
Scientist 1	Sri Ambika Prasad Nayak	Fishery Science	M.F Sc	Aquaculture	15600-39100 & GP-6000	29950	24.03.05	Permanent	OBC
Scientist 2	Smt Saswati Pattnaik	Home Science	Ph.D	Child Development & Family Relation	15600-39100 & GP-6000	29950	05.09.14	Permanent	Others
Scientist 3	Dr. Debiprasad Dash	Soil Science	Ph.D	Soil Science & Agril. Chemistry	15600-39100 & GP-6000	26590	11.02.14	Contractual	Others
Scientist 4	Dr. B.N.Sahoo	Horticulture	Ph.D	Horticulture	15600-39100 & GP-6000	29070	18.06.12	Permanent	Others
Scientist 5	Dr. Tapan kumar Palai	Animal Science	Ph.D	Animal Biochemistry	15600-39100 & GP-6000	22250	17.06.15	Contractual	Others
Scientist 6	Vacant			· ·					
Programme Assistant	Sri Gayadhar Shial	Forestry	M. Sc (Forestry)	Agro-Forestry	9300-34,800 & GP-4200	18180	01.10.12	Permanent	SC
Farm Manager	Sri Debashis Nayak	Agronomy		Weed Science	9300-34,800 & GP-4200	15670	31.07.13	Permanent	Others
Computer Programmer	Sri Gopal Krushna Ojha	Computer Application	M.C.A.	Computer Application	9300-34,800 & GP-4200	20030	12.08.16	Permanent	OBC
Accountant / superintendent	Sri Somanath Mandal	-	B.A	-	9300-34,800 & GP-4600	23910	01.08.09	Permanent	SC
Stenographer	Smt Rajashree Singl	-	B.A.	-	5200-20200 & GP-2400	10060	11.10.06	Contractual	OBC
Driver	Sri Bijaya Kumar Barik	-	-	-	5200-20,200 & GP-1900	9300	01.07.15	Contractual	Others
Driver	Sri Sradhansu Sekhar Pattnaik	-	-	-	5200-20,200 & GP-1900	8760	27.01.11	Contractual	Others
Supporting staff	Sri Prasanta Kumar Dalai	-	9 th Pass	-	4440-7440 & GP-1300	7320	28.07.08	Contractual	OBC
Supporting staff	Sri Harihara Nayak	-	9 th Pass	-	4440-7440 & GP-1300	7530	17.07.13	Contractual	Others

1.2. DISTRICT PROFILE (detail of geographical area, cultivation, Land, resources, opportunities, irrigation, populations etc.)—

Agro- climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding, ha
North Eastern coastal plain zone	7	193	1506522	83.25	311864	148239	1.187

1.3. DETAILS OF ADOPTED VILLAGE during 1.4.2017 to 31.3.2018 (Approved by competent Authority in meetings/workshops)

Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
Thaila	2017	Bhandaripokhari	44	1363	235
Kuanrda	2017	Bonth	40	1200	150
Orali	2017	Tihidi	40	1070	160
Solagaon	2017	Dhamnagar	45	1200	146
Junuda	2017	Chandbali	60	430	53

1.4. THRUST AREAS identified by KVK (Approved by competent Authorityin meetings/workshop)

THRUST AREA
Doubling Farmers income
Agronomic management of flood affected Rice
Varietal evaluation for salt affected rice areas
Area expansion of rainfed areas during rabi through RCT
Nutrient management of pulses and area expansion under rainfed rice-fallow
Promotion of farm mechanization in rice
Management of Pest-diseases of rice
Site specific nutrient management of rice
Promotion of vermicompost as organic source of nutrients
Soil health management and management of problematic soil
Pest management of vegetable crops
Scientific management practices in pisciculture
Promoting pond based integrated farming system
Promotion of scientific and low cost feeding practices in livestock through promotion of fodder and Azolla production

Promotion of Backyard poultry rearing system in poor farmers
Technology for enhancing mushroom production

1.5. PROBLEM IDENTIFIED by KVK (Approved by competent Authority in meetings/workshop)

Crop/ Enterprise	Problem identified	Methods of problem identification	Location Name of Village & Block
Paddy	 Labour scarcity during peak season for operations like transplanting, weeding, harvesting Flash flood damaging the paddy crop at early and late condition Biotic stress such as insect, disease (BPH/WBPH, Stem borer, Sheath blight and Blast) Imbalanced fertilizer application with no micronutrient application High cost of cultivation in direct seeded rice due to severe weed infestation and practice of beushaning 	Benchmark survey, FGD, Problem analysis	Solagaon, Orali, Kuanrada, Thaila
Pulses and Oilseeds	 Extensive rice fallows in rainfed shallow lowland to low lands due to stray cattle menace Low or no fertilizer application to blackgram in paira system Moisture stress often affecting the productivity of blackgram in paira system Poor soil physical condition for pulses due to puddle rice Severe YMV incidence in summer greengram High infestation of pod borer in blackgram & greengram Acid soil causing poor nodulation and yield in pulses Use of low yielding degenerated variety (M-27) in mustard 	FGD, Problem analysis, Benchmark survey, Farmers footfall,	Solagaon, Orali
Vegetables and fruits	 High incidence of pest and disease in vegetabels and fruits Using traditional varities of vegetables leading to less profit 	Benchmark survey and FGD	Thaila, Kuanrada
Fish	 Low income from production of table-size fishes in small ponds High incidence of Fish lice infestation and EUS Prevellance of submerged aquatic weeds, insects in fish ponds Use of nutritionally imbalanced traditional fish feed (Oil cake and rice bran) 	FGD, Problem analysis, Benchmark survey	Thaila, Kuanrada
Livestock and Poultry	 Bull menace and higher incidence of natural breeding Higher incidence of FMD (Foot and Mouth Disease), mastitis and contagious diseases during rainy season High calf and chick mortality due to contagious diseases High cost of concentrates leaindg to unprofitable milk production 	FGD, Problem analysis	Thaila, Kuanrada, Solagaon, Orali, Junuda

- Slow growth rate in goats with out any feed supplementation except browsing and higher incidence of endoparasites
- Slow growth rate andpoor egg production in desi birds leading to less income generation

2.On Farm Testing

2.1 Information about OFTto be conducted

	Year/ seaso n	Problem diagnose	Category of technology (Assessment / Refinement)	Thematic Area	Crop/ enterpris e	Farming Situation s	No. of trial s	Title of OFT	Details of technology	Source of technolog y	Observation parameters
1	Rabi, 2017- 18	Moisture stress affects performance of blackgram grown under residual soil moisture	Assessment	ICM	Rice	Rainfed shallow low land; rice- blackgram paira cropping system	07	Assessment of hydrogel for moisture conservation under rice- blackgram paira cropping system	FP:Sowing under residual soil moisture condition without moisture conservation measures TO 1:Hydrogel Seed coating @20 g/kg seed and broadcast TO 2:Hydrogel mixing with soil (1:10) and broadcast along with seed	IARI, 2012	Soil moisture content at 30, 45 DAS, No. of branches/plant, no. of pods/plant, no. of grains/pod, grain yield
2	Rabi, 2017- 18	Acidic soil adversely affecting growth and yield of greengram	Assessment	Soil managemen t	Greengram	Irrigated medium land, rice- summer greengram	07	Assessment of seed coating of greengram with lime in rice- greengram CS under acid soil	FP:Soil test based fertilizer recommendation with no Rhizobium inoculation TO 1:STBF+Inoculation of Rhizobium TO 2:STBF+Inoculation of Rhizobium with Lime seed coating	OUAT, 2016	Farmers field germination test, nodulation/plant, Chlorophyll content, No of pods/plant, test weight, Yield q/ha
3	Rabi, 2017- 18	Severity of wilt complex leading to yield loss	Assessment	Varietal Evalulation	Tamato	Irrigated medium land, rice- tomato CS	07	Assessment of triple disease resistant tomato hybrids inrice- tomato cropping system	FP:Use of bacterial wilt ,early blight and ToLCV susceptible variety of tomato cv. Avinash TO 1:Arka Rakshak TO 2:Arka Samrat	IIHR, 2012	Wilt incidence (%), PDI of early blight and ToLCV, fruit weight, Yield (q/ha),
4	Rabi, 2017- 18	Lack of information about	Assessment	Hi tech horticulture	vegetable	Vegetable based cropping	02	Assessment of vegetable-based cropping	FP :Practices of Monocropping under protected condition	ICAR, RCNEH, 2009	No. of fruits/plant Avg. fruit weight (g), Yield (q/ha),

5	Kharif,	cropping calendar under protected cultivation	Assessment	Production	Fish	system under protected condition	03	sequences under protected condition	TO 1:Off season cauliflower-capsicum- spinach TO 2:Tomato- Cucumber-French- Bean- Coriander T O 3: Brocoli- capsicum- fenugreek FP:Inappropriate daily	IIWM,	ABW (at the end
	2017	wastage of feed due to improper daily feeding, FCR exceeds beyond 2.5, cost involvement towards artificial feeding is very high		& Managemen t		medium ponds, canal-fed, non- drainable ponds		performance of short term starvation and re- feeding on growth of IMCs	feeding TO 1:8 weeks continuous feeding with 2 weeks starvation TO 2:4 weeks continuous feeding with 2 weeks starvation	Agriculture Nutrition, 2014	3 months trial) Yield (q/ha), FCR
6	Rabi, 2017- 18	Use of pyrethroid (Cypermethrin , Deltamethrin) group of pesticides, which deplete zooplankton population and is a limiting factor for prawn polyculture	Assessment	IDM	Fish	Small to Medium tanks (Canal fed)	05	Assessment of Ivermectin in controlling Argulosis in fish ponds	FP:Use of pyrethroid (Cypermethrin) group of pesticides, which depletes zooplankton population and is a limiting factor for carp-cum-FW prawn polyculture system TO 1: 'Paracure I.V. '(Ivermectin 2% w/w) with fish feed @ 250 ppm TO 2:TO-1 + Paracure B.T. @ 200ml/acre in water	CIIFA, 2013	Disease incidence (%) Yield (q/ha)
7	Kharif 2017 and Rabi- 2017- 18	High cost of commercial concentrate feeding	Assessment	LPM	Cow	Homestead and grazing	04	Assessment of farm made feed on milk production in cows	FP:Grazing, household feeding and Commercial feed (Very less and inappropiate) TO 1:Grazing and household feeding TO 2:TO-1 + commercial feed TO 3: TO-1 + farm made feeding(maize and broken rice- 40%, GNOC/MOC/SOC/Pulse	NDDB, 2012	Cost of production Milk production Yield/cow/day

8	Rabi, 2017- 18	Slow growth rate of goat due to imbalanced ration	Assessment	LPM	Goat	Homestead and browsing	10	Assessment of concentrate and mineral mixture supplementation on body weight	barn- 25%, DORB -20%, wheat bran/chuni -10%, Mineral mix and Salt - 5%) FP:Browsing TO 1:Browsing + Mineral mixture @ 10g/adult goat TO 2:Browsing+	NIANP, 2012	Body weight increase in 3 months of feeding strategy followed
								gain in goats	Concentrate @100g/adult goat T O 3: Browsing+ Mineral mixture @ @10g/adult goat + Concentrate @100g/adult goat		
9	Kharif 2017	Low biological efficiency (10%) of conventional method of bed preparation for paddy straw mushroom	Assessment	IGA	Mushroom	Homestead	13	Assessment of semi composting method for production of paddy straw mushroom	FP:Paddy straw mushroom cultivation by bed method TO 1:Paddy straw mushroom cutivation by composting method with 1.0% spawning TO 2:Paddy straw mushroom cutivation by composting method with 1.5% spawning	DMR, 2011 CTMRT, 2016	Yield/ bag, Biological Efficiency %
1 0	Kharif 2017	Low Haemoglobin (Hb) content in pregnant ladies and adolescent girls	Assessment	Nutrtion Security	Kitchen garden	Backyard	15	Assessment of Nutritional supplementation of Iron for pregnant ladies, adolescent girls through kitchen garden	FP:Consuming cereal based diet devoid of green leafy vegetables TO 1:Inclusion of green leafy vegetables as per RDA recommendation for one time after deworming TO 2:Inclusion of green leafy vegetables as per RDA recommendation for two times after deworming	ICMR, 2007	% of Hb after 4 months

3. Frontline Demonstrations

3.2Details of FLDs to be implemented during 2017-18

Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Source of technology	Details of demonstration	Crop- Area (ha) / Entrep - No.	Observation parameters
ICM	Rice	Kharif 2017	Demonstration of integrated crop management by mechanized direct seeding	OUAT, 2014	FP: Broadcast sowing under direct seeded condition, no soil test, no herbicide application, beushaning followed Demo: Line sowing using seed cum ferti drill, herbicide: Bispyribac Na, STBFR	8.0	No.of hills/m², no.of EBT/hill, no.of grains/panicle, grain yield, B:C ratio
Varietal evaluation	Rice	Kharif, 2017	Demonstration of Salt tolerant rice variety Luna Sampad for saline AES	NRRI, 2012	FP:Local salt tolerant vars. Demo:Luna Suvarna, Luna Sampad; (Transplanted rice, STBFR)	2.0	No. of EBT/hill, no. of grainss/panicle, grain yield, cooking quality

INM	Rice	Kharif, 2017	Demonstration of soil test based fertilizer recommendation in rice under DFI modules	OUAT-STR	FP:Imbalance application of fertilizer Demo:Soil test for NPK using Mridaparikshyak Fertilizer recommendation as per the soil test value	2.0	No. of EBT/hill, sterility %, incidence of pest and diseases, grain yield
Varietal evaluation	Rice	Kharif, 2017	Demonstration of flood tolerant rice variety Swarna Sub 1 under flash flood situation of AES II	,	FP:Cultivation of rice variety Swarna/CR 1009 Demo:Flood tolerant variety Swarna Sub 1 + STBF	2.0	No. of hills/m², EBT/ hill, Grain yield, Economics
IPM	Rice	Kharif, 2017	Demonstration of of IPM modules for the management of plant hoppers in rice	DRR, 2012	FP: Spraying of imidacloprid/ acetamiprid/ quinalphos Demo: Skip row planting (after 3 m), installation of spider trap @ 25/ ha. Need based alternate spraying (based on ETL) of Flonicamid 175 g/ ha and Dichlorvos @ 750 ml/ ha with tank mix of neem oil	2.0	BPH & WBPH/ hill, Spiders/ hill, mirid bugs/ hill, Yield (q/ha), B:C

INM	Blackgram	Rabi, 2017-18	Demonstration of blackgram as paira crop for intensification of rice-fallow under DFI module	IIPR, 2006	FP:Rabi fallow after kharif rice Demo:Paira crop: Greengram (IPM 2- 14)/ Blackgram (PU 35/Prasad) Broadcast of seeds 7- 10 days before harvest of kharif rice	2.0	No of pods/plant, Grain yield
INM	Blackgram	Rabi, 2017-18	Demonstration of nutrient management in rice-blackgram paira cropping system	OUAT, 2010	FP:Sowing of paira blackgram at 7-10 days before harvesting No fertilizer application to blackgram Demo:Blackgram (PU 35/Prasad) NPK 20-40-20; Fertilizers mixed with soil for 2 days and broadcast 2 days before sowing	2.0	No of pods/plant, Grain yield
Vermicomposting	Vermicomposting	Kharif 2017-18	Demonstration of vermicompost production using locally available resources	OUAT, 2012 STR	FP:No vermicomposting Demo:Partial decomposition of plant residues and cow dung (1:1) up to 45 days + Vermicomposting	10 no.	Vermicompost production Composition
Prodcution and management	Fish	Kharif, 2017	Demonstration on Nursery raising of carp spawns to frys in small backyard tanks	CIFE, 2008	FP:Stocking of grow- out ponds with catla: traditional rohu: mrigal fingerlings :: 3000:4000:3000 nos. per ha. respectively Demo:Stocking of mixed carp spawns @ 75 Lakhs per ha and reared for 21 days Stocking of small ponds (0.02-0.06 ha size) with catla: : mrigal spawns :: 9:12:9 Lakhs per ha. Respectively	0.6 (03nos)	Yield (Lakhs/ha)

Pisciculture	Fish	Rabi, 2017-18	Demonstration on 'Jayanti rohu' (CIFA-IR)in lieu of traditional rohu in 3-species IMC culture	CIFA, 2006	FP:Stocking of grow- out ponds with catla: traditional rohu: mrigal fingerlings :: 3000:4000:3000 nos. per ha. respectively Demo:Stocking of grow-out ponds with catla: Jayanti rohu: mrigal fingerlings :: 3000:4000:3000 nos.	2.0 (05nos)	Yield (Lakhs/ha)
IFS	Vegetables	Round the year 2017-18	Demonstration of high valued crops on dykes of backyard small ponds	ICAR, RCNEH, 2009	per ha. respectively	1.2	Wt. of tuber & fruit, No. of fingers/bunch
Varietal evaluation	Potato	Rabi, 2017-18	Demonstration of heat tolerant potato cv. Kufri Surya	CPRI, Shimla (2004)	FP:Use of heat susceptible potato cv. Kufri Jyoti Demo:Heat tolerant potato variety cv. Kufri Surya	0.4	Avg. tuber wt., Yield (q/ha)
ICM	Okra	Summer, 2018	Demonstration of Thiourea in Okra	RAU, Jobner	FP: Application of N:P:K @80:30:30 kg ha-1, no use of bioregulator and micronutrient Demo: Seed treatment with 500 ppm thiourea+ foliar application of thiourea at flowering and vegetative stage and basal application of zinc @ 5 kg ha ⁻¹ +RDF	0.4	No. of fruits/plant, fruit yield (q/ha)

LPM	Dairy	Round the year	Demonstration on fodder and	NDDB, 2006	FP:Grazing, straw	10nos.	Milk yield, cost saving,
		2017-18	Azolla production for feed	NIANP	and inappropriate		Economics
			management of cattle		quantity of		
					commercial cattle		
					feed		
					Demo:Azolla		
					cultivation using		
					polythene sheet (6 x 9		
					ft)		
					Hybrid nappier (CO		
					4)/Paragrass planting		
					Feeding: Fresh Azolla		
					- 1 kg/cow/day +		
					Fodder @25 kg/cow		
					(Depending on body		
					weight and status of		
					milk production)		
LPM	Poultry	Through out the	Demonstration of Rainbow	CARI, IVRI, 2007	FP:Rearing Desi birds	10nos. (150 birds)	Mortality rate
		year 2017-18	rooster/Kegg in backyard	, ,	Demo :Poultry breed:	, ,	Day of egg laying
		١	system		Rainbow rooster/		BW gain in 2 months
					Kegg for meat and		and egg production after
					egg production		6m up to 9m
					Brooding of day old		Economics
					chicks upto 21 days		
					with proper		
					vaccination and		
					feeding		
LPM	Poultry	Through out the	Demonstration on OUAT	OUAT	FP:Rearing Desi birds	30nos. (300 birds)	Mortality rate
		year 2017-18	synthetic colour poultry in		Demo :Poultry breed:	, , ,	BW gain at 2 months
			backyard system		Pallishree		interval, Economics
					Proper brooding and		
					medication of one day	,	
					old chicks up to 21		
					days. Low cost		
					management of		
					poultry chicks for		
					income generation		

LPM	Poultry	Through out the year 2017-18	Demonstration on Khaki Campbell duck breed in pond/unused water bodies for income generation of Farm Women	CARI, Bhubaneswar, 2004	FP:Un-organised fish farming and less use of small pond dykes Demo:Khaki Campbell duck breed in pond/unused water bodies for income generation of Farm Women Proper brooding, medication, vaccination and feed management of backyard duckery.	30nos. (300 birds)	Mortality rate Age of sexual maturity BW gain in 2 months Economics
IGA	Mushroom	Kharif - 2017	Demonstration on paddy straw mushroom cultivation for efficient utilization of paddy straw	CTMRT, 2001	FP:-No activity Demo:Paddy straw mushroom cultivation For one bed: Paddy straw:12 kg, soaking for 12 hrs, spwan: one bottle, covering polythene for 15 days, regular water spray for 7 days	21 nos.	Yield (kg/bed) Economics Feedback

3.4Training and Extension activities proposed under FLD

Crop	Activity	No. of activities organized	Number of participants	Remarks	
Rice	Field days	3	150		
	Farmers Training	3	90		
	Media coverage	-	-		
	Training for extension functionaries	-	-		
Blackgram	Field days	2	50		
	Farmers Training	1	30		
	Media coverage	-	-		
	Training for extension functionaries	-	-		
Vermicompost	Field days	1	50		
	Farmers Training	2	30		
	Media coverage	-	-		
	Training for extension functionaries	-	-		
Potato	Field days	1	50		
	Farmers Training	1	30		
	Media coverage	1	-		

	Training for extension functionaries	-	-	
Vegetable	Field days	1	50	
	Farmers Training	1	30	
	Media coverage		-	
	Training for extension functionaries	-	-	
Fish	Field days	2	100	
	Farmers Training	2	60	
	Media coverage	-	-	
	Training for extension functionaries	-	-	
Fodder, Azolla	Field days	1	50	
	Farmers Training	2	30	
	Media coverage			
	Training for extension functionaries	-	-	
Poultry	Field days	2	70	
	Farmers Training	2	60	
	Media coverage			
	Training for extension functionaries			

5. TRAINING PROGRAMMES

Table 5.2. Details of Training programmes to be conducted by the KVKs.

Cate-gory	Training	Thematic	Training Title	No. of	Duration	Target for
	Туре	area		Courses	(Days)	No. of participants
F/FW	OFC	CP	Mat nursery preparation for mechanised transplanting	1	1	30
F/FW	OFC	CP	Mat nursery preparation for mechanized transplanting	1	1	30
IS	ONC	СР	Season long training on Production technology for mechanized transplanted rice (Mat nursery, mechanical transplanting, weed and nutrient management, pest management, mechanical harvesting)	1	5	20
F/FW	OFC	СР	Weed management in direct seeded and transplanted rice	1	1	30
F/FW	ONC	СР	Weed management in direct seeded and transplanted rice	1	1	20
F/FW	OFC	СР	Line planting of mustard using seed cum fertilizer drill	1	1	25
F/FW	OFC	СР	Use of seed drill for line planting of greengram and blackgram	1	1	25
F/FW	OFC	FIS	Pre stocking management in nursery and grow-out tanks	1	1	35
F/FW	OFC	FIS	Fish cum Horticulture system for higher profitability in small ponds	1	1	35
F/FW	OFC	FIS	Fish Seed Production Te1chnology in Small ponds	1	1	35

Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants
F/FW	OFC	FIS	Post-stocking management in nursery and grow-out tanks	1	1	35
F/FW	OFC	FIS	Fish Seed Production Technology in Small ponds	1	1	35
F/FW	OFC	FIS	Multiple cropping pattern in pisciculture	1	1	35
F/FW	OFC	FIS	Prophylaxis and Fish disease control in Pisciculture tanks	1	1	35
F/FW	OFC	FIS	Use of chemicals (medicines, growth promoters) and probiotics in Aquaculture	1	1	35
F/FW	OFC	FIS	Multiple cropping pattern in Pisciculture	1	1	35
F/FW	OFC	FIS	Intercropping of Minor barbs and medium size carps in 3 species IMC culture	1	1	35
RY	ONC	FIS	Quality Seed Production technology (Fry, Fingerlings, Advance Fingerlings) of Indian Major carps	1	3	20
IS	ONC	FIS	Recent advances in freshwater aquaculture technology	1	2	20
F/FW	OFC	IFS	Fish cum Horticulture system for higher profitability in small ponds	1	1	30
F/FW	OFC	HOV	Nutrient Management and bunch enhancement technique in Tissue culture banana	1	1	30
F/FW	OFC	HOV	Off season caulifower cultivation for higher income	1	1	30
F/FW	OFC	НОТ	Agro techniques for late Kharif Onion	1	1	30
F/FW	OFC	НОТ	Production technology of potato	1	1	30
F/FW	OFC	HOV	Package of practices of cucumber	1	1	30
F/FW	OFC	HOV	Production techniques of papaya	1	1	30
F/FW	OFC	НОТ	Special package practices of Colocasia cultivation	1	1	30
F/FW	OFC	HOV	Production technology of Capsicum	1	1	30
F/FW	OFC	HOV	Application techniques of Plant growth regulators in Pointed gourd	1	1	30
F/FW	OFC	HOV	Weed management of potato and onion	1	1	30
F/FW	OFC	НОТ	Production technology of Elephant foot yam	1	1	30
RY	ONC	HOV	Techniques of raising nursery for planting materials of vegetable and fruit crops	1	4	20
RY	ONC	HOV	Nursery raising techniques for quality vegetable planting material	1	2	20
IS	ONC	HOV	Advance nersery raising techniques for production of planting materials of vegetable crops	1	1	20

Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants
IS	ONC	HOV	Cultivation of high value horticultural crops under protected cultivation	1	1	20
F/FW	OFC	SFM	Summer management for vermiculture to enhance compost production	1	1	30
F/FW	OFC	SFM	Production technology for raising Azolla nursery and its multidimensional use	1	1	35
F/FW	OFC	SFM	Vermicomposting	1	1	30
F/FW	OFC	SFM	Production technology for raising Azolla nursery as feed for livestock	1	1	35
F/FW	OFC	SFM	Management of saline soil for Rabi seanson	1	1	30
F/FW	OFC	SFM	Management of Micronurient deficiencies in cauliflower	1	1	30
F/FW	OFC	SFM	Production technology for raising Azolla nursery as feed for livestock	1	1	35
F/FW	OFC	SFM	Vermicomposting	1	1	30
F/FW	OFC	SFM	Production technology for raising Azolla nursery and its multidimensional use	1	1	35
F/FW	OFC	SFM	Vermicomposting	1	1	30
F/FW	OFC	SFM	Vermicomposting	1	1	30
RY	ONC	SFM	Method of soil sampling, analysis and interpretation of results	1	5	20
RY	ONC	SFM	Methods of Vermicomposting and vermin wash production	1	3	20
IS	ONC	SFM	Recycling of farm wastes and green manuring to enhance soil health	1	2	20
IS	ONC	SFM	Recycling of farm wastes and green manuring to enhance soil health	1	2	20
F/FW	OFC	LPM	Production technology for raising Azolla nursery and its multidimensional use	1	1	35
F/FW	OFC	LPM	Alternate and low cost effective feeding for economic milk production	1	1	35
F/FW	OFC	LPM	Use of Fodder (Hybrid Napier and cowpea) for increased milk production	1	1	35
F/FW	OFC	LPM	Production technology for raising Azolla nursery as feed for livestock	1	1	35

Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants
F/FW	OFC	LPM	Use of Fodder (Hybrid Napier and cowpea) for increased milk production	1	1	35
F/FW	OFC	LPM	Disease management in livestock during rainy season	1	1	30
F/FW	OFC	LPM	Brooding and Vaccination techniques in backyard poultry	1	1	35
F/FW	OFC	LPM	Production technology for raising Azolla nursery and its multidimensional use	1	1	35
F/FW	OFC	LPM	Care and management of newborn animals: With special reference to Deworming and Vaccination	1	1	35
F/FW	OFC	LPM	Strategies to increase milk production in dairy animals	1	1	35
RY	ONC	LPM	Goat farming as a source of income	1	3	20
RY	ONC	LPM	Intensive, semi intensive and backyard Broiler farming	1	3	20
IS	ONC	LPM	Effect of indiscriminate use of drugs in livestock and recent trends in treatment of Mastitis	1	2	20
F/FW	OFC	WOE	Preparation of Squash and Jam from Mango and Papaya	1	1	30
F/FW	OFC	WOE	Production technology of Paddy straw mushroom	1	1	30
F/FW	OFC	WOE	Post harvest management and packing of paddy straw mushroom	1	1	30
F/FW	OFC	WOE	Production technology of Paddy straw mushroom	1	1	30
F/FW	ONC	WOE	Spawn production technique	1	5	15
F/FW	OFC	WOE	Production technology of Paddy straw mushroom	1	1	30
F/FW	OFC	WOE	Preparation of mixed fruit jam	1	1	30
F/FW	OFC	WOE	Textile decoration through block printing	1	1	30
F/FW	OFC	WOE	Home baking	1	1	30
F/FW	OFC	WOE	Paddy craft	1	2	20
F/FW	OFC	WOE	Pickle and sauce preparation from Oyster mushroom	1	1	30
F/FW	OFC	WOE	Pickle preparation from vegetables	1	1	30
F/FW	OFC	WOE	Low cost diet preparation	1	1	30
RY	ONC	WOE	Paddy craft	1	3	20
RY	ONC	WOE	Low cost brooding management	1	1	20
IS	ONC	WOE	Mushroom production technology	1	1	20
IS	ONC	WOE	Meal planning and low cost diet preparation	1	1	20
F/FW	OFC	ÀGF	Propagation technology of teak stumps from seedlings	1	1	35

Cate-gory	Training Type	Thematic area	Training Title		Duration (Days)	Target for No. of participants
F/FW	OFC	ÀGF	Vegetative propagation of Bamboo by flute technology	1	1	35
F/FW	OFC	ÀGF	Plantation and management of nectar producing trees for Honey bee insects	1	1	35
F/FW	OFC	ÀGF	Nursery raising techniques of forest plants	1	1	35
F/FW	OFC	ÀGF	Suitable Agroforestry practices in coastal areas	1	1	35

$Table \ 5.3. \ Details \ of \ Vocational \ training \ programmes \ for \ Rural \ Youth \ to \ be \ conducted \ by \ the \ KVKs$

Training title	Crop / Enterprise	Identified Thrust Area	Duration of training (days)
Quality Seed Production technology (Fry, Fingerlings, Advance Fingerlings & Yearlings) of Indian Major carps	Fish	Quality Seed Production technology	3
Techniques of raising nursery for planting materials of vegetable and fruit crops	Vegetable and fruit	Nursery raising	4
Method of soil sampling, analysis and interpretation of results	Soil	Soil testing	5
Methods of Vermicomposting and vermin wash production	Vermicomposting	Vermi compost production	3
Goat farming as an income source for unemployed rural youths	Goat	Scientific goat farming	3
Intensive, semi intensive and backyard Broiler farming	Poultry	Scientific poultry farming	3
Paddy craft	Enterprise	IGA	3
Spawn production technique	Mushroom	Spawn production	5

6. EXTENSION ACTIVITIES

Activity	No. of activities (Targeted)
Field Day	14
Kisan Mela	2
Kisan Ghosthi	3

Activity	No. of activities (Targeted)
Exhibition	3
Film Show	22
Method Demonstrations	10
Farmers Seminar	2
Workshop	0
Group meetings	6
Lectures delivered as resource persons	20
Newspaper coverage	10
Radio talks	10
TV talks	8
Popular Articles	8
Extension Literature	6
Farm Advisory Services	350
Scientific visit to farmers field	135
Farmers Visit to KVK	2000
Diagnostic Visits	40
Exposure Visits	2
Ex-trainees Sammelan	4
Soil Health Camp	4
Animal Health Camp	3
Agri Mobile Clinic	4
Soil Test Campaigns	4
Farm Science Club conveners meet	1
Self Help Group conveners meetings	2

7. Production and supply of Technological products

7.1 SEED production

Major group/class	Сгор	Variety	Type of produce (for Seed produced type here SD; For Planting Material type herePM)	Quantity
Cereals	Paddy	Swarna Sub1, MTU 1075	SD	350q

7.2 Planting Material production

	Name		Details of production		
Major group/class	of the crop	Area (ha)	Variety	Type of Produce	Qty./ No.
Vegetables	Brinjal		Swarna Shyamali	seedling	5000
Vegetables	Chilli		Agnirekha, Utkal Ava, Utkal Rashmi, Utkal Ragini	seedling	5000
Vegetables	Tomato	0.1 ha	Utkal Kumari, Utkal Raja, Swarna Sampad	seedling	10000
Vegetables	Cabbage		Real ball, Rare ball, Globe master	seedling	5000
Vegetables	Cauliflower		Snow White, Megha, Barkha, Deepali	seedling	5000
Vegetables	Knolkhol		Winner	seedling	3000
Spices	Onion		Bhima super, N-53	seedling	5000
Forest plants	Teak		-	sapling	2000
Forest plants	Mangium		-	sapling	1000
Forest plants	Acacia	0.1 ha		sapling	2000
Forest plants	Mahogany		-	sapling	500
Forest plants	Others		-	sapling	3000
Spawn	Mushroom		V.volacea, P.sajarcaju,	Spawn	1832 bottles

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

Name of the Product	Qty
BIOAGENTS (Vermiculture)	5 kg
BIOFERTILIZERS (Vermicompost)	30 q

7.4 Livestock and fisheries production

Name	Details of production	1	
of the animal / bird / aquatics	Breed	Type of Produce	Qty.
Cattle			
Buffalo			
Sheep and Goat			
Poultry	Rainbow rooster/ Pallishree	21 days brooded chicks	600

Fisheries	Fish seed	spawns	35,00,000
		Nos.yearlings	60,000
		ornamental fish	6000

8. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : YES/NO, If yes, then

Year of establishment : - 2006

8.1 Details of soil & water samples to be analyzed

Type	No. of Samples
Soil Sample	1000
Water Sample	200

10. Kisan Mobile Advisory (KVK-KMA)

No. of maggagag to be cont	No. of beneficiaries		
No. of messages to be sent	Farmers	Ext. Pers.	
80	45000	50	

12. Literature to be Last Developed/Published (with full title, author & reference)

12.1 KVK Newsletters

Date of start	Periodicity	Number of copies to be printed	Number of copies to be distributed
August, 2017	Half yearly	500	500
February, 2018	Half yearly	500	500

12.3 PUBLICATIONS

Category	Number	Type	Title	Author's name	Number of copies
Research Paper	4				2000
Technical bulletins	6	-			30
Technical reports	100	-			100
Popular article	6	-			100
News paper coverage	10				
Year Planner	1				
Booklets, leaflets	6				

16. Details of KVK Agro-technological Park – Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
1	Demonstration of rice varieties	1
2	Demonstration of potentialities of oilseed and pulse crops	1

SUPPLEMENTARY FORMATS FOR ACTION PLAN

Format 1: Agro-ecological situations (AES)

Agro- ecological	Blocks covered	Major crops and	Strength	Weakness and Challenges	Opportunity
situations		commodities		Chancinges	
Alluvial Canal Irrigated (LTA rainfall:	Bonth,Bhandaripokahri,Tihidi,Dhamnagar, parts of Basudevpur, Bhadrak	Rice, greengram, fish, vegetables, dairy, poultry	Mushroom production is picking up	No irrigation facility during dry seasons	Scope for pond based farming system
Low lying and flood prone area (LTA rainfall: 1417 mm)	Tihidi,Dhamnagar, parts of Basudevpur, Chandbali	Rice, blackgram, vegetables, dairy	Vegetable production in Tihidi and Dhamnagar blocks	Frequent flash flood situation	Scope for strengthening Pisciculture, mushroom
Saline soil group (LTA rainfall: 1143 to 1627 mm)	Basudevpur, Chandbali , parts of Tihidi, Dhamnagar	Rice, dairy, poultry, pisciculture	Dairy intensive areas, large numbers of ponds	Taping of ground water banned, vast rice fallows	Need for development of rain water harvesting structures, availability of large number of ponds for pisciculture

Format 2: Intervention Framework

Sl. No.	Major	Major Farming	Prioritized Problems	Area	Name of the	Proposed Intervention (OFT,
	Crop/Enterpri	situations of the		(ha/No.)affect	cluster/villages	FLD, Ext activity, QPM etc.)
	ses (Total area /	crop/enterprise		ed by the	identified for	
	No.)			problem	intervention	
				(Approx.)		
1	Rice (kharif)	Rainfed medium-low land	Labour scarcity during peak season for operations like transplanting, weeding, harvesting	All situations	Kuanrda, Thaila	 Training on mechanized transplanting, weeding Season long training on production technology of

		Canal Irrigated medium-lowland	 High cost of cultivation in direct seeded rice due to severe weed infestation and practice of beushaning Extensive rice fallows in rainfed shallow lowland to low lands due to stray cattle menace 			mechanized transplanting at KVK farm • Demonstration of integrated crop management by mechanized direct seeding • Training on weed management under direct seeded rice • Demonstration of blackgram and greengram as paira crop
			➡ High incidence of BPH/WBPH	All situation	Thaila, Kuanrda, Orali	 Demonstration of of IPM modules for the management of plant hoppers in rice Training on management of BPH and WBPH in kharif rice Publication of leaflet and distribution to farmers on BPH management KMA – advisory through text messages
		→ Flood prone shallow-lowland	 Flash flood damaging the crop at early and late condition High cost of cultivation in direct seeded rice due to severe weed infestation and practice of beushaning 	33000 ha	Solagaon, Orali	 Demonstration of flood tolerant rice var. Swarna sub 1 Seed production in RF: Swarna sub 1 Contingent crop planning Demonstration of integrated crop management by mechanized direct seeding
		→ Saline affected	 Use of tall indica local varieties under saline soil condition Imbalanced fertilizer application with no micronutrient application 	50000 ha	Junuda	Demonstration of salt tolerant rice var. Luna Suvarna, Luna Sampad Demonstration of soil test based fertilizer recommendation in rice
2	Pulses (Blackgram&G reengram)	→ Rainfed: Rice- blackgrampaira	 Low or no fertilizer application to blackgram in paira system Moisture stress often affecting the productivity of blackgram in paira system 	5000 ha	Solagan, Orali	Demonstration of nutrient management in rice-blackgrampaira cropping system OFT on assessment of hydrogel for moisture conservation under rice-blackgrampaira cropping system
		▶ Irrigated: Rice - (summer) greengram	Greengram: Broadcast sowing and non-uniform plant stand	7000 ha		Demonstration of line planting through seed cum fertilizer drill (CFLD)

Use of traditional varieties → Use of traditional varieties → Poor soil physical condition for pulses due to puddle rice → Severe YMV incidence in summer greengram → High infestation of pod borer in blackgram&greengram → Training on ling greengram by see drill → CFLD village to be decided → Solagan → CFLD village to be decided → YMV tolerant volumer of the production of the production of the production of pod borer in blackgram&greengram → High infestation of pod borer in blackgram&greengram	
Poor soil physical condition for pulses due to puddle rice Severe YMV incidence in summer greengram High infestation of pod borer in decided greengram under Condition for sold and	line sowing of seed cum fertilizer
pulses due to puddle rice pulses due to puddle rice of direct seeded rice rice Severe YMV incidence in 7000 ha summer greengram High infestation of pod borer in of direct seeded rice rice ◆ YMV tolerant v decided IPM 02-03 under • Seed production	
summer greengram High infestation of pod borer in decided IPM 02-03 under ◆ Seed production	
	er CFLD on of these vars.
Poor nutrient and weed 10000 ha strength technology under	veed management
→ Acid soil causing poor • OFT:Assessment	nt of seed coating of ith lime in rice
3 Oilseed crops → Irrigated Rice- mustard → Delayed planting of mustard due to late harvest of paddy → Training: Line pusing seed cum for	planting of mustar fertilizer drill
	ard; use of HYV,lir R,weed managemer

4	Vegetables	Field crop	 High incidence of wilt complex in tomato Low price of vegetable during on season and thereby low profitability 	3500 ha	Kuanrda, Thaila	 OFT: Assessment of triple diseas resistant tomato hybrids inrice tomato cropping system Training: Off season caulifowe cultivation for higher income Training: Preparation of pickle from vegetables Agro techniques for late Khar
			Delayed planting of potato affecting yield due to susceptibility to high temperature			Onion Training: Production technology of capsicum FLD on heat tolerant potato cv. Kuf Surya Training on production technolog of potato Training: Weed management of
			Flower dropping in okra and reduction in yield			 potato and onion FLD on Thiourea in Okra OFT on Assessment of vegetable cropping sequences under protecte condition
			 Lack of information about crop calendar under protected cultivation (Opportunity): Cultivation of root crops, papaya, banana on pond dykes of small backyard ponds Lack of information to farmers on suitable varieties Unavailability of good hybrids every year 			 Training: Cultivation of high value horticultural crops under protecte cultivation FLD on high valued crops on pondykes of small backyard ponds Training: Fish cum Horticultur system for higher profitability ismall ponds Production of QPM on vegetable seedlings under RF
5	Fruits	Orchard	Unavailability of planting materials of banana, papaya, drumstick, coconut, mango			 QPM in saplings of drumsticl papaya of good varieties Training: Production techniques of papaya
			Distress sale of mango and other fruits			 Training: Preparation of squash an jam of mango and papaya Training: Preparation of mixed fru jam

6	Fish	Small backyard fish ponds and Medium tanks	Low income from production of table-size fishes in small ponds Underutilized pond dykes Cultivation of traditional Rohu	1870 ha 3492 ha	Thaila, Kuanrda Solagaon, Thaila	 FLD on Nursery raising of car spawns to frys Training: Fish Seed Production Technology in Small ponds Training: Fish cum Horticultur system for higher profitability is small ponds FLD on 'Jayanti rohu' (CIFA-IR)is lieu of traditional rohu in 3-species IMC culture Training: Intercropping of Minor
				16571		barbs and medium size carps in species IMC culture
		Small and medium fish tanks	Outbreak of fish lice infestation	1657 ha	Thaila, Kuanrda	 OFT on Assessment of chemicals i controlling Argulosis
			Infestation of submerged aquatic weeds in fish ponds	1285 ha	Thaila, Junuda	FLD on Biological control of aquati weeds by stocking grass carps @25 nos./ha
			Incidence of EUS in fish during winter months is higher Lack of knowledge on quality fish seed production	950 ha	Solagan, Thaila	 FLD on Management of EU (Epizootic Ulcerative Syndrome) if fish ponds by applying CIFAX (1L/ha Training: Prophylaxis and Fish
			High cost involvement towards supplementary feeding	2870 ha		disease control in Pisciculture tanks Training: Quality Seed Production technology (Fry , Fingerling Advance Fingerlings) of India Major carps OFT on Assessment of performance of short term starvation and refeeding on growth of IMCs
			Use of nutritionally imbalanced traditional fish feed (Oil cake and rice bran)	2300 ha	Kuanrda, Thaila, Solagan	OFT on Use of vitamin-mineral premix @ 1% in the feed to increase fish yield Use of Farm made fish feed by utilizing locally available feed stuffs
		Small Nursery Ponds	Infestation of aquatic insects	910 ha	Kuanrda, Thaila	FLD on Chemical control of aquatic insects by using Synthetic Pyrithroids CLINAR (High-cis-

						cypermethrin- 10W/V) in nursery
						ponds (Dose-0.01 ppm)
7	Dairy (Desi Cow)	Homestead and grazing	 No green fodder for feeding Imbalanced feed supplements 	145000	Kuanrda	FLD on fodder and Azolla production for feed management of cattle
			Excessive feeding of paddy straw		Solagan	 Training to farmers on Alternate feeding strategy to increase milk yield OFT on Assessment of farm made feed on milk production in cows Training on Strategies to increase milk production in desi cows Training on Use of Fodder (Hybrid Napier and cowpea) for increased milk production Training on Production
						technology for raising Azolla nursery as feed for livestock
			Bull menace and higher incidence of natural breeding	150000		 Awareness campaign on Benefits of Artificial insemination in desi cows
			Higher incidence of FMD (Foot and Mouth Disease)	19000	Kuanrda	 Training to farmers regardin importance of vaccination an preventive measures for FMD
8	Dairy (CB cow)	Homestead and stallfed	Higher incidence of Mastitis	6000 CB cows		IS Training to VLWs and LIs regarding control measures and recent treatment strategies for Mastitis
					Junuda	• Training to farmers on Mastitis management of in cattle
			High cost of concentrates leading to unprofitable milk production No fodder supplements	12000 CB cows	Thaila, Kuanrda, Junuda, Orali, Solagan	 FLD on fodder production for feeding management of cattle FLD on Azolla cultivation using polythene shits for feeding
						management of cattle OFT on Assessment of farm made feed on milk production in cows
						Training on Alternate and low cost effective feeding for economic milk production
						• Training on Use of Fodder (Hybrid Napier and cowpea) for increased milk production

			No vitamin-mineral supplements	7000 CB cows	Solagan, Orali	Training on Production technology for raising Azolla nursery as feed for livestock OFT on Assessment of Minera mixture and probiotics to increas
9	Goat	Backyard and browsing	Slow growth rate in goats because of only browsing	120000	Orali	milk yield in CB cows OFT on Assessment of concentrate and mineral mixture supplementation on body weight gain in goats
			High incidence of endoparasites	59000		OFT on Assessment of Ivermecti and Closantel as anthelmintics i goats
10	Poultry	Backyard	Slow growth rate and poor egg production High mortality in chicks	450000	Thaila, Kuanrda	 FLD on Rainbow rooster in backyard system Training on Brooding and Vaccination techniques in backyard poultry
11	Mushroom	Backyard	Low biological efficiency (10%) of conventional method of bed preparation for paddy straw mushroom		Solagan, Thaila	OFT:Assessment of semi composting method for production of paddy straw mushroom
			Opportunity for expansion of mushroom in Dhamnagar			 FLD on paddy straw mushroom cultivation for efficient utilization of paddy straw Training: Production technology of paddy straw mushroom
			Low sale rate of mushroom during peak growing season			Training: Preparation of pickle and sauce from oyster mushroom

Format 3: Trainings

Crop/ Commodity	Thematic Training Areas	Link Activities (OFT / FLD/ Other Extension Activities / Flagship programmes if any)	No of Courses	No of participants
Rice	Crop establishment	FLD/Awareness	2	100
	Weed management	FLD	2	50
	Plant protection	FLD	2	50
	Nutrient management	FLD	1	30
	Crop establishment	CFLD	2	60

Greengram	Weed and nutrient management	CFLD	1	30
Blackgram	Crop establishment	Seed hub/FLD	1	25
Mustard	Crop establishment	CFLD	1	25
Vegetables	INM	OFT/FLD	15	430
Vegetable/Fruits/Mushroom	Value addition		5	150
IFS	IFS	FLD	2	65
Fish	Production & Management	OFT/FLD	9	215
Fish	Integrated Disease Management	OFT	1	35
Azolla, Fodder	LPM	FLD	5	170
Cattle	LPM	OFT	7	220
Poultry	LPM	FLD	3	80
Goat	LPM	OFT	1	20
Mushroom	IGA	FLD/OFT	7	175
Nutrition	Nutritional Security	OFT	2	50
Agroforestry	Production Technology		5	175

Format 4: Flagship Programmes

SL.No.	Programmes	Activities	Linked Agency
1.	CFLD	Pulses (Greengram 40 ha), Season: Summer 2018	OSSC/CSISA
		Oilseed (Mustard 30 ha), Season: Rabi 2017-18	
2	Pulse Seed Hub	Pulse	OSSC
		Crop: Blackgram, Variety: PU 31, Season:	
		Spring/Summer	
		Area: 200 ha	
		Target: 1000 q	
3	IRRI Head-Head Trials	Rice Varieties:	IRRI
		Swarna sub 1 (16 no. demos)	
		Bina 11 (20 no. demo)	
		CR 1009 sub 1 (4 no. demo)	

Format 5: Capacity Building of KVK Personnel

S. No	Name of the Scientist / Staff	Areas of Training Required	Institution proposed to attend if identified	Justification
	Sr Scientist & Head	Leadership Development	NAARM, Hyderabad	To develop the leadership quality and improve the efficiency of Head such training will be helpful
	Sr Scientist & Head	Conservation agriculture and soil health	PAU, Punjab	Advance training and exposure is required in conservation agriculture since KVK has initiated work in this direction in the district
	Scientist (Soil Science)	Analytical tools and techniques for development of soil health card (SHC) and its interpretations	NBSSLUP, Nagpur	For updating the recent advances in tools and techniques used for soil health analysis and interpretation
	Scientist (Horticulture)	Technological Advances to Minimize Pre-and Post-Harvest Losses in Agricultural and Horticultural Crops to Enhance Farmer's Income	GBPUAT, Panthnagar	
	Scientist (Fishery Sc)	Good Extension Practices in Fisheries and Aquaculture	CIFE, Mumbai	Modern Fishery technologies will reach to each of the fishers/fish farmers of the district through good extension practices
	Scientist (Animal Sc)	Nutrition for Health: Advances in the Science of Animal Nutrition	IVRI, Izatnagar	Updating knowledge in nutrition and health of animals

[•] Indicate the training requirement of Scientific and technical staff

Format 6 : Cross-learning across KVKs

S.No.	Name of the KVKs included in the cluster	What do you intend to share with Cluster KVKs	What do you expect from Cluster KVKs
	Bhadrak, Balasore, Jajpur, Kendrapada, Jagatsinghpur and Puri	 Skill on Zero till planting, Mechanised transplanting, mechanised direct seeding Skill on stunted fingerling and yearling production Skill on round the year fish production Skill on nutritional strategy preparation for different livestocks and poultry at different times 	Services of Scientist, Plant protection

DOUBLING FARMERS' INCOME

Module village basic information

Name of the Village with GPS	GP	Block	House hold (nos.))		Total cultivable land (ha)	Land area (ha)	l type	with	Irriga with a (ha	area	Soil type with area (ha)				
				Other s	SC	ST	Total		Lo w	Me d	Up	Khari f	Rab i		Kharif	Rabi
Thaila N 20 ⁰ 59.921' E 86 ⁰ 20.085'	Rajendra pur	Bhandari pokhari	235	805	558	0	1363	600	400	-	200	160 (canal)	-	Silt loam- 240 Heavy clay- 240 Sandy-120	Paddy	-
Kuanrada N21 ⁰ 10.85' E86 ⁰ 20.483'	Aadia	Bonth	150	700	400	100	1200	120	72	4	44	80 (canal)	-	Heavy clay- 84 Sandy Soil- 36	Paddy	Pulses-6 ha
Solagaon 20° 55.189' 086° 28.783'	Radhabal lavpur	Dhamna gar	146	800	400	0	1200	200	140	40	20	40 (canal) LI- 36	LI- 10	Heavy clay- 100 Silt loam- 25	Paddy	Pulses- 180 ha Vegetabl e- 8 ha
Orali N 20° 55.271' E 086° 35.705'	Bodak	Tihidi	160	710	360	0	1070	400	280	120	-	-	-	Silt loam- 220 Heavy clay- 80 Salty- 100	Paddy	Blackgra m-160 ha Sugarcan e-8 ha
Junuda N20 ⁰ 50.659' E 86 ⁰ 48.932'	Mousudh a	Chandba li	53	430	0	0	430	88	64	-	24	-	-	Silt loam- 50 Salty- 38	Paddy	Vegetabl e- 1 ha

SUMMARY OF MODULES FOR DOUBLING FARMERS' INCOME (BHADRAK)

Module	Farming situation/AES	Existing farming system	Proposed Farming	Village/bl ock	Prese nt	Propo sed	Risk/ unsustainability	Remarks	
			system		incom e 2015- 16	incom e 2018- 19		Market linkage	Most representative module for the district
Module I	Irrigated shallow lowland (Kharif-canal, Rabi – no irrigation) AES I -Alluvial Canal Irrigated Vill: Thaila, Kuanrda	Rice- fallow+fish+frui ts/vegetable+Da iry	Rice- greengram/blac kgram+ Fish+vegetable /fruits+ Dairy+ poultry	■ Thaila /Bhanda ripokhar i ■ Kuanrda / Bonth	25800	51250	 Stray cattle menace during rabi Plantation of perennial trees on pond dykes 	Value addition of Milk and marketing through SHGs	Rice- greengram/blackgra m+Fish+vegetable/ fruits+Dairy+poultr y
Module II	Rainfed lowland AES II – Low lying flood prone areas Vill: Solagaon, Orali	Rice-blackgram paira+Dairy+Po ultry	Rice- blackgram paira+Dairy+P oultry+Mushro om	Solagao n/ Dhamna gar Orali/Ti hidi	28800	59700	 Flash flood Stray cattle menace during rabi Low market price of pulses 	Processing of pulses through mini dal mills	
Module III	Rainfed shallow lowland AES III – Coastal Saline soil group Vill: Junuda	Rice- fallow+Dairy+P oultry	Rice- blackgram paira+Dairy+P oultry+Mushro om	■ Junuda/ Chandba li	20200	41700	 Stray cattle menace during rabi unavailability of sufficient chicks lack of market facility 	Linkage of mushroom growers to producer company	

MODULE I AES-Alluvial Canal Irrigated Vill: Thaila, Kuanrda

Farming situation	Existing prace 2015-16	ctices	1st year (2016	-17)	2 nd year (2017-18))	3 rd year (2018-19)	
	Component & Net income	Problems/ practices	Intervention	Yield & Net income/ha	Intervention	Expected Yield & net Income/ha	Intervention	Expected Yield & net Income/ha
■ Irrigated shallow low land (Canal in kharif, no irrigation in rabi) ■ Small tanks (5-30 cent)	Rice-fallow Area:0.8 ha Rice: 42 q/ha Rs. 12300 Fish 1 q/15 cent Rs. 5000	 Broadcast sowing Beushaning Imbalanced fertilization Rabi fallow Fish production – low profit	 Line sowing Herbicide: Bispyribac Na Fish seed production (spawnfry) 	45.0 q/ha Rs. 15200 166000 fry Rs. 7500	 Line sowing Herbicide: Bispyribac Na STBF (FLD 1) Greengram (IPM 2-14)/ blackgram (PU 35) as paira (Area 0.4 ha) (FLD 2) Fry+stunted fingerlings and yearlings production (FLD 3) 	47.0 q/ha Rs.17000 2.5 q/ha Rs.3000 75000 fry 25000 SFL/SYL Rs.10000	 Line sowing Herbicide: Bispyribac Na+ Hand weeding STBF Greengram/blackgram with NPK 20-40-20 Fry+stunted fingerlings and yearlings production 	47.0 q/ha Rs.17000 4 q/ha Rs.5000 75000 fry 25000 SFL/SYL Rs.10000

Farming situation	Existing p	ractices(2015-16)	1st year (2016-1	17)	2 nd year (2017-18)		3 rd year (2018-19)	
	Compone nt & Net income	Problems/ Practices	Intervention	Yield & Net income/h a	Intervention	Expected Yield & net Income/ha	Intervention	Expected Yield & net Income/ha
Pond dykes	Banana Rs.500	Underutilized pond dyke	Banana (Gaja Bantala)	1100 fingers Rs. 1500	■ Banana+ Papaya (Coorg Honeydew)+Elephant foot yam (Gajendra)+ Yam (FLD 4)	Banana:1100 fingers Papaya: 3 q Foot yam: 0.8 q Rs.3000	■ Banana+ Papaya (Coorg Honeydew)+Elephan t foot yam (Gajendra)+ Yam	Banana:1100 fingers Papaya: 3 q Foot yam: 0.8 q Rs.3000
					■ Vermicomposting (Unit size:12x4x3 ft) (FLD 5)	20 q Rs.2500	• Vermicomposting (Unit size:12x4x3 ft)	20 q Rs.4000

Farming situation	Existing pract	ices (2015-16)	1st year (2016-17	7)	2 nd year (2017-18)		3 rd year (2018-	19)
	Component& Net income	Problems/practices	Intervention	Yield & Net income/ha	Intervention	Expected Yield & net Income/ha	Intervention	Expected Yield & net Income/ha
Homestead	Dairy 1 desi cow Milk: 2.0 Rs.4000	 No green fodder supplements High cost of concentrate feeding, low milk yield 	Hybrid nappier , var. CO 4/ Paragrass	Milk : 2.0 l/day Rs. 4500/yr	 Hybrid nappier, var. CO 4/Paragrass Azolla production (FLD 6) Farm made feed (broken rice ,DORB, pulse bran , wheat bran , GNOC , salt , mineral mixture) 	Milk: 2.2 1/day Rs.5000 Rs.5500	 Hybrid nappier /Paragrass Azolla production Farm made feed Value addition of milk (50%) for chhena making 	Milk: 1.0 L/day Chhena: 0.25 kg/day Rs.6000/yr
	Poultry (local breeds) Rs.4000		Backyard poultry, Rainbow Rooster/Kegg (20 birds)	Body wt: 2.0 kg/ bird+ 750 eggs/yr Rs. 4500	 Rainbow rooster in 2 batches/yr (FLD 7) 		 Rainbow rooster in 2 batches/yr 	Rs.6250
Total	Rs.25800			Rs.33200 (28.68%)*		Rs.46000 (78.29%)*		Rs.51250 (98.64%)*

MODULE II AES-Low lying and flood prone area Vill: Solagaon, Orali

Farming situation	Existing practice 2015-16	ces	1st year (2016-1	17)	2 nd year (2017-	18)	3 rd year (2018-19)		
	Component& Net income	Problems/ practices	Intervention	Yield & Net income/ha	Intervention	Expected Yield & net Income/ha	Intervention	Expected Yield & net Income/ha	
Rainfed lowland	Rice- blackgram paira Area: 0.8 ha Rice: 40.0 q/ha Rs. 9600	Frequent flood damages Swarna & other cultivars Imbalanced fertilization Broadcast & high cost in beushening	HYV Swarna	45.0 q/ha Rs. 11800	HYV Swarna sub 1 sub1 (FLD8) STBF	47.0 q/ha Rs.13000	HYV Swarna sub 1 STBF Line sowing & Herbicide- Bispyribac Na@200ml/ha	48.5 q/ha Rs.14500	
	Blackgram paira Area: 0.4 ha 4.5 q/ha Rs.7600	No fertilizer application to blackgram Use of local var. of blackgram	NPK 20-40- 20; Fertilizers mixed with soil for 2 days	5.5 q/ha Rs.8800	NPK 20-40-20 Var. PU 35 / Prasad	6.5 q/ha Rs.10400	NPK 20-40-20 Var. PU 35 / Prasad	6.5 q/ha Rs.10400	

Farming	Existing practices	s(2015-16)	1st year (2016	-17)	2nd year (2017	-18)	3rd year (2018-1	9)
situation	Component& Net income	Problems/practic es	Intervention	Yield & Net income/ha	Intervention	Expected Yield & net Income/ha	Intervention	Expected Yield & net Income/ha
Homestea d	Dairy, 1 desi cow Milk Y: 2 l/day Rs. 4000	No green fodder supplements	Hybrid nappier , var. CO 4/ Paragrass	Milk : 2.0 l/day Rs. 4500/yr	Hybrid nappier /Paragrass Azolla production (FLD 6)	Milk Y: 2.2 l/day Rs.5300/yr	Hybrid nappier /Paragrass Azolla production	Milk Y: 2.2 l/day Rs.5300/yr
Homestead			Backyard poultry, Rainbow Rooster (20 birds)	Body wt: 2.0 kg/ bird+ 750 eggs/yr Rs. 4500	Rainbow rooster in 2 batches/yr (FLD 7)	2 kg/bird+ 750 egg/yr Rs.5500	Rainbow rooster in 2 batches/yr	2 kg/bird+ 1000 egg/yr Rs.6250
Homestead					Paddy straw Mushroom production (3 beds/day) for June –	2.4 kg/day Rs. 7000/yr	Paddy straw Mushroom (3 beds/day) June – Nov.	2.4 kg/day Rs. 7000/yr
Homestead					November (FLD 9)		Oyster mushroom, 2beds/day, Dec- Feb	3.0 kg/day Rs.5850
Total	Rs.21200			Rs.29600 (39.6%)*		Rs.41200 (94.3 %)*		Rs.49300 (132.5%)*

MODULE III AES -Coastal Saline Soil group Vill: Junuda

Farming situation	Existing prace 2015-16	etices	1 st year (2016-17)		2 nd year (2017-18)		3 rd year (2018-19)		
	Component & Net income	Problems/ practices	Intervention	Yield & Net income/ha	Intervention	Expected Yield & net Income/ha	Intervention	Expected Yield & net Income/ha	
Rainfed shallow submerged land	Rice-fallow 32.9 q/ha Area:0.8 ha Rs.12200	local var. Broadcast sowing Blanket fertilization Hand weeding Rabi fallow	(Option 1) HYV Luna Suvarna/ Luna Sampad (Option 2): Local var. Pateni, line sowing, STBF	38.5 q/ha Rs.15000	(Option 1) HYV Luna Suvarna/Luna Sampad (FLD 10) Line sowing STBF Herbicide- Bispyribac Na	41.5 q/ha Rs.16000	HYV Luna Suvarna Line sowing STBF Herbicide- Bispyribac Na	41.5 q/ha Rs.16000	
			Blackgram paira, var.PU 35/Prasad Area: 0.4 ha	1.7 q/ha Rs.2500	Blackgram as paira (PU 35/Prasad, NPK 20-40-20	3.0 q/ha Rs.3700	Blackgram as paira (var. PU 35/Prasad, NPK 20-40-20	3.5 q/ha Rs.4700	

Farming situation	Existing practice	es(2015-16)	1 st year (2016-17)		2 nd year (2017-18)		3 rd year (2018-19)	
	Component & Net income	Problems/ practices	Intervention	Yield & Net income/h a	Intervention	Expected Yield & Income/ha	Intervention	Expected Yield & net Income/ha
Homestead	Dairy 1 Cow Milk: 2 l/day Rs. 4000/yr	No green fodder supplements High cost of concentrate feeding, low milk yield	Hybrid nappier , var. CO 4/Paragrass	Milk : 2.0 1/day 4500/yr	Hybrid nappier, var. CO 4 /Paragrass Azolla production (FLD 6) Farm made feed	Milk: 2.4 1/day Rs. 6000	Hybrid nappier /Paragrass Farm made feed Value addition of milk (50%)for chhena making	Milk: 1.2 L & Chhena: 0.3 kg/day Rs.7500/yr
	Poultry – desi bird Rs.4000	Slow growth rate	Colour poultry bird Pallishree/ Rainbow Rooster (20 birds), vaccination	2 kg/bird Rs.5000	Pallishree/ Rainbow Rooster (2 batches of 20 birds each) (FLD 11)	2 kg/bird Rs.7500/yr	Pallishree /Rainbow Rooster poultry (2 batches of 20 birds each)	2kg/bird Rs.7500
					Paddy straw mushroom from June to November (2 beds/day) (FLD 9)	2.0kg/day Rs. 4000/yr	Paddy straw mushroom, 3 beds per day	2. kg/day Rs.6000
Total	Rs. 20200			Rs.27000 (33.6%)*		Rs.37200 (84 %)*		Rs.41700 (106.0 %)*