

Action Plan 2018 – 19



**KRISHI VIGYAN KENDRA
KEONJHAR**



1. Name of the KVK : KEONJHAR
2. Name of host organization : ORISSA UNIVERSITY OF AGRICULTURE & TECHNOLOGY, BHUBANESWAR-3

3. Training programmes to be organized (April 2018 to March 2019)

(a) Farmers and Farm women

Thematic Area	Title	No of training	Duration	On / Off campus	No of participants					
					SC	ST	Others	M	F	Total *
I Crop Production										
ICM	Production technology of Niger	1	1	Off						30
IWM	Weed and water management of groundnut	1	1	Off						30
ICM	Cultivation practices of Black gram	1	1	Off						30
ICM	Cultivation practices of Chick pea	1	1	Off						30
ICM	Production technology of Sunflower	1	1	Off						30
IWM	Weed management in wheat	1	1	Off						30
ICM	Cultivation practices of Mustard	1	1	Off						30
ICM	Cultivation practices of Green gram	1	1	Off						30
ICM	Production technology of Sweet corn	1	1	Off						30
ICM	Crop Diversification in Rainfed Upland	1	1	Off						30
II Horticulture										
HOV	Nursery raising off season Vegetables	1	1	Off						30
HOV	Cultivation practices of Kharif tomato	1	1	Off						30
HOV	Off season vegetable cultivation	1	1	Off						30
HOF	Cultivation practices of Tissue	1	1	Off						30

	culture Banana									
HOV	Production technology of Sweet potato	1	1	Off						30
HOV	Cultivation practices of Potato	1	1	Off						30
HOV	Cultivation practices of Onion	1	1	Off						30
HOV	Cultivation practices of Cole crops	1	1	Off						30
HOF	Cultivation practices of water melon	1	1	Off						30
HOV	Water management in vegetable crops	1	1	Off						30
HOF	Cultural practices in Mango orchards	1	1	Off						30
HOV	Popularization of horticulture based farming system	1	1	Off						30
III Soil Health and Fertility Management										
SFM	Nutrient management in Maize	1	1	Off						30
SFM	Importance & application techniques of micronutrient in vegetables.	1	1	Off						30
SFM	Importance & methods of biofertilizer application in vegetables.	1	1	Off						30
SFM	Identification and management of nutrient disorders in cereals.	1	1	Off						30
SFM	Importance of Soil testing and soil sample collection technique.	1	1	Off						30
SFM	Production and	1	1	Off						30

	application techniques of azolla in paddy									
SFM	Nutrient management in Mustard	1	1	Off						30
SFM	Methods of composting techniques	1	1	Off						30
SFM	Soil test based fertilizer application in Paddy	1	1	Off						30
SFM	Nutrient management in pulse crops.	1	1	Off						30
SFM	Management of Acid soil	1	1	Off						30
SFM	Nutrient management in groundnut	1	1	Off						30
IV Livestock Production and Management										
Disease management	Control of mastitis in animals	1	1	Off						30
Disease management	First aid treatments for animals	1	1	Off						30
Feed management	Fodder preservation techniques	1	1	Off						30
Value addition	Value addition in milk for income generation	1	1	Off						30
Feed management	Multiplication and use of azolla for dairy and poultry	1	1	Off						30
Feed management	Hydroponic fodder production	1	1	Off						30
Feed management	Value addition in paddy straw for increase in milk yield	1	1	Off						30
Disease management	Care and management of diseases of	1	1	Off						30

	poultry									
Livestock production and management	Management of sheep as a sustainable source of livelihood	1	1	Off						30
Livestock production and management	Scientific rearing of ducks for sustainable livelihood.	1	1	Off						30
V Plant Protection										
PLP	IPM practices for management of insect pests in kharif rice	1	1	Off						30
PLP	IPM practices for management of diseases in kharif tomato	1	1	Off						30
PLP	IPM practices for management of insect pests in Brinjal	1	1	Off						30
PLP	IPM practices for management of diseases in Blackgram	1	1	Off						30
PLP	IPM practices for management of insect pests in pigeonpea	1	1	Off						30
PLP	IPM practices for management of diseases in potato	1	1	Off						30
PLP	IPM practices for management of insect pests in chickpea	1	1	Off						30
PLP	Different methods of seed treatment in crops	1	1	Off						30
PLP	IPM practices for management of insect pests in Okra	1	1	Off						30
PLP	IPM practices for management of diseases in	1	1	Off						30

	cucumber										
PLP	IPM practices for management of diseases in ginger	1	1	Off							30
PLP	IPM practices for management of diseases in field pea	1	1	Off							30
VI Fisheries											
-	-	-	-	-	-	-	-	-	-	-	-
VIII Agricultural extension											
Income generation	Income generation activities for Women SHGs	1	1	Off							30
Group Management	Formation and Management of Farmers club	1	1	Off							30
FPOs	Enhancing Farm Profitability through FPOs	1	1	Off							30
ICT	ICT in Agriculture	1	1	Off							30
Entrepreneurship development	Entrepreneurship in agriculture and allied sector	1	1	Off							30
Farming system approach	Farming system approach	1	1	Off							30

Rural youths

Thematic Area	Title	No of courses	Duration	On/Off campus	No of participants						
					SC	ST	Others	M	F	Total*	
I Crop Production											
IFS	Integrated Farming System	1	4	on							15
II Fishery											
-	-	-	-	-	-	-	-	-	-	-	-
III Livestock Production and Management											
Livestock production and management	Scientific rearing of ducks for sustainable livelihood	1	4	on							15
IV Agricultural Extension											
Entrepreneurship development	Formation and Management of FPOs	1	4	on							15
Entrepreneurship development	Entrepreneurship development in agriculture and allied sector	1	4	on							15
V Horticulture											

HOF	Gooty preparation technique in Guava for self employment	1	4	on							15
VI Plant Protection											
PLP	Honey bee cultivation for income generation	1	4	on							15
VII Soil Science											
SFM	Vermicomposting for employment generation	1	4	on							15

(b) Extension functionaries

Thematic Area	Title	No of courses	Duration	On/Off	No of participants						
					SC	ST	Others	M	F	Total *	
I Crop Production											
IWM	New molecule of herbicides for weed management in Pulses	1	1	On							10
II Fishery Sc.											
-	-	-	-	-	-	-	-	-	-	-	-
III Horticulture											
HOV	Protected cultivation of vegetable crops	1	1	On							10
IV Plant Protection											
PLP	New generation insecticides for controlling insect in vegetables	1	1	On							10
V Soil Science											
SFM	Management of Acid soils	1	1	On							10
VI Livestock Production and Management											
Disease management	First aid treatment in livestock	1	1	On							10
VII Agricultural Extension											
Market led production	Market led production strategy	1	1	On							10
Entrepreneurship development	Entrepreneurship development and project proposal preparation	1	1	On							10

(c) Sponsored Training

Thematic Area	Title	Courses	Duration	On/Off	No of participants					Total
					SC	ST	O	M	F	
-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-

(d) Vocational Training

Thematic Area	Title	courses	Duration	On/Off	No of participants/trainee days						
					SC	ST	O	M	F	Total	
Seed Production	Quality seed production of Rabi Pulses	1	5	on							05
Livestock production and management	Scientific rearing of poultry for income generation	1	5	on							05
Seed production	Grafting techniques in mango for employment generation	1	5	on							05
Alternative livelihood option	Preparation of bio-pesticides for self employment	1	5	on							05
Alternative livelihood option	Different methods of Compost preparation for income generation	1	5	on							05
Total		3	15	-							15

4. Frontline Demonstration

Crop	Season	Title	Technology	No. of demonstration	Area (ha)
Sweet corn	Rabi 2018-19	Demonstration of Sweet corn variety NHCS-130(Sweet honey)	FP: Cultivation of hybrid maize for marketing as green cobs RP: Cultivation of Sweet corn variety NHCS-130(Sweet honey) with 80-85 days duration. Seed rate 6kg/ha.	10	1.0
Black gram	Rabi 2018-19	Demonstration on Black gram variety PU-35	FP: Cultivation of local variety RP: Popularisation of Black gram var. PU-35	10	1.0
Fodder	Kharif 2018	Demonstration of high yielding fodder crop Hybrid Napier CO 4	Plantation of hybrid napier (60 X 30) cm with irrigation at 7 days interval	10	1.0
Duck	Kharif 2018	Demonstration of Khaki Campbell Duck farming	Khaki Campbell Body wt 1.5-1.8kg/ 20 weeks, annual egg production 200 numbers / annum	10	-
Cow	Rabi	Demonstration	Urea, Molasses, Mineral mixture,	10	-

	2018-19	on Urea molasses treatment of paddy straw	chokar		
Goat	Rabi 2018-19	Demonstration on improved housing system of goats	Bamboo, iron nets	10	-
Banana	Kharif 2018	Popularization of tissue culture banana variety Amritpani	Tissue culture plant of Amritpani variety, spacing 1.3mX 1.3 m, fertilizer dose- urea(N)- 431.0g/plant, SSP (P)- 375.0g/plant, MOP (K) - 415.0 g/plant	10	1.0
Tomato	Kharif 2018	Popularization of low cost poly tunnel by using 200 micron polythene and bamboo(10'X3'X 2') for vegetable seedling raising	Preparation of low cost poly tunnel by using 200 micron polythene and bamboo(10'X3'X2')	10	0.003
Potato	Rabi 2018-19	Demonstration of Potato variety Kufri Surya	High yielding variety Kufri Surya- Early maturing variety and suitable for cultivation in north plains and plateau. Av. yield-250-300q/ha	10	1.0
Onion	Rabi 2018-19	Demonstration of pre-emergence weedicide in onion	Pre-emergence application of Oxyfluorfen @ 0.25 kg ai/ha followed by irrigation	10	1.0
Tomato	Kharif 2018	Demonstration of wilt management in Tomato	Soil application of bleaching powder @10 kg/ha during land preparation, soil application of <i>T. Viridae</i> @ 2.5 kg/ha incubated with 50 kg of FYM , spraying of copper oxychloride (3gm/lt) and streptocycline (1.5 gm/10 lt)	10	1.0
Mango	Kharif & Rabi 2018-19	Demonstration of chemical control measures against mango psylla	Alternate spraying of profenphos 50EC@ 2ml/lt and Thiomethoxam 25WG @ 0.6gm/lt at an interval of 15 days in month of July and August	10	3.0
Bittergourd	Rabi 2018-19	Demonstration of Fruit fly management in bitter gourd	Field sanitation + Pheromone trap for fruit fly with Cue lure @ 50nos/ha + Bait spray (Malathion 1ml + jaggery 100 gm+ Water 1lt.) at 7m intervals for 45 sec	10	1.0
Cucumber	Rabi 2018-19	Demonstration on management of cucumber	Seed treatment with Imidachloprid 600 FS@5ml/kg of seed and alternate spraying of neem oil	10	1.0

		mosaic virus	3000 ppm @ 2ml/lit and Pyometrizine 50WG @ 0.6 gm/lit of water.		
Tomato Caulliflower	Kharif & Rabi 2018- 19	Demonstration of organic farming in Tomato- Cauliflower cropping system	Use of organic along with bio-fertilizers-FYM @5ton/ha+ (Azospirillum+Azotobacter+PSB) @ 4kg/ha each after mixing with 10-25 times FYM incubating for 48 hours+ Vermicompost 2 tons/ha at the time of land preparation	10	1.0
Watermelon	Rabi 2018- 19	Demonstration of application of boron in watermelon	STB recommendation for NPK and application of Borax as foliar spray @ 0.2% twice in 15 days interval at flowering stage of crop.	10	1.0
			Total	100	11.003

Enterprise

Season	Enterprise	Variety	No. of demonstration	No. of animal/ area (ha)
-	-	-	-	-

5. Seed and planting material production

Seed		Planting material	
Crop	Area	Crop	Area/No
Paddy	2.0	Vegetable Seedling (Tomato)	50,000
Sunhemp	1.0	Vegetable Seedling (Chilli)	5000
Dhaincha	2.0	Vegetable Seedling (Cabbage)	25000
		Vegetable Seedling (Brinjal)	25000
		Vegetable Seedling (Cauliflower)	50000
		Vegetable Seedling (Papaya)	1000
		Graft (Mango)	200
		Gooty (Guava)	100

6. Extension Activities

Activities	No.	Participants
Field Day	18	720
Kisan Mela	1	500
Kisan Ghosthi	5	50
Exhibition	1	Mass
Film Show	50	2500
Method Demonstrations	24	1200
Farmers Seminar	2	200
Workshop	1	100
Group meetings	15	450
Lectures delivered as resource persons	25	-
Newspaper coverage	10	Mass
Radio talks	5	Mass
TV talks	3	Mass
Popular Articles	10	Mass
Extension Literature	10	500
Farm Advisory Services	50	Mass

Scientific visit to farmers field	180	500
Farmers Visit to KVK	600	600
Diagnostic Visits	50	500
Exposure Visits	02	50
Ex-trainees Sammelan	05	250
Soil Health Camp	2	200
Animal Health Camp	2	100
Agri Mobile Clinic	-	-
Soil Test Campaigns	5	250
Farm Science Club conveners meet	-	-
Self Help Group conveners meetings	3	150

7. Revolving Fund

Open balance as on 1 st april 2018 (Rs. in lakh)	Amount to be invested (Rs.)	Return (Rs.)
0	1,00,000	2,00,000

8. Expected fund utilization

Project	Source	Amount to be received (Rs. in lakh)
Farmers Scientist Interaction	ATMA, Keonjhar	0.5
Centre of Excellence	RKVY	100.00

9. On-Farm Trials to be conducted (10 nos)

Thematic area	Title	Treatments	No. of farmers
Weed Management	Assessment of Weedicide in Niger	FP : farmers practice TO ₁ : Pendimethalin @ 0.75 kg a.i/ha (at the time of sowing) TO ₂ : TO ₁ + Quazilfopethyl 5% EC @ 37.5 g a.i/ha (30 days after sowing)	07
Integrated nutrient management	Assessment of Nutrient management in Black gram	FP : Application of DAP 50 kg/ha TO ₁ : Foliar application 2% DAP @ Pre flowering and 15 days after first spray TO ₂ : Foliar application 0.75% DAP + 0.75% MOP @ pre flowering and 15 days after first spray	07
ICT	Study on ICT tools – mobile messaging, social media (Whatsapp) in dissemination of agricultural messages	FP - Print media TO ₁ - Mobile messaging(KMA) TO ₂ - Social media (Whatsapp)	10
Varietal evaluation	Assessment of improved local backyard poultry breed	FP: Rearing of local bird sold by vendors body weight at 20 weeks: 1000g; Annual egg production: 90-100 numbers. TO ₁ : Assel rearing: body weight at 20 weeks: 1180g; Annual egg production: 164 numbers. TO ₂ : Kadaknath rearing: body weight at 20 weeks: 1170g; Annual egg production: 190 numbers.	07
Feed management	Assessment of hydroponics fodder	FP :Concentrate feed with paddy straw TO ₁ :Hydroponics (cereal based)- maize @ 10kg/day	07

nt	for dairy	TO ₂ :Hydroponics (Maize +legume-green gram) @10kg/day	
IPM	Assessment of different rice varieties for BPH tolerance	FP: Swarna TO ₁ : Pratikshya TO ₂ : Hasanta	05
IDM	Assessment of management of rhizome rot in ginger	FP: Spraying of carbendazim @ 2 gm/lt during vegetative stage TO ₁ : Spraying of Metalaxyl+ Mancozeb (2.5ml/lt)+ Streptocycline 1.5 gm/10 lt alternatively with bordeaux mixture 0.5% at an interval of 15 days TO ₂ : Two Sprayings of Cymoxil+ Mancozeb (3ml/lt)+ Streptocycline 1.5 gm/10 lt alternatively with bordeaux mixture 0.5% at an interval of 15 days	07
Varietal evaluation	Assessment of different tomato varieties in late kharif season	FP: Laxmi TO ₁ : Arka Samrat TO ₂ : Arka Rakshak	07
ICM	Assessment of growth regulator to control irregular bearing habit in mango	FP: Use of FYM only with watering TO ₁ : 1:0.5:1Kg/tree (NPK) for 10yr plant with watering TO ₂ : 1:0.5:1Kg/tree (NPK) + Paclobutrazol @8ml/plant in collar region with watering	07

10. List of Projects to be implemented

Name of the project	Fund expected (Rs.)
Centre of Excellence	100 Lakhs
FPOs	289.98 Lakhs

11. No. of success stories to be developed: Two nos.

12. Scientific Advisory Committee

Date of SAC meeting held during 2017-18	Proposed date
28.07.17	28.07.18

13. Soil and water testing

Sample	No. of samples to be analysed
Soil	500
Plant	-
Water	-

14. Staff position

Sanctioned	In position	If vacant, since when
Programme Coordinator / Sr. Scientist	1	-
SMS (Plant Protection) / T-7/8	1	-
SMS (Agronomy) // T-7/8	1	-
SMS (Hort.) // T-7/8	-	2015
SMS (A.H. & V.S.) // T-7/8	1	-
SMS (Fishery Sc.) // T-7/8	-	2013

SMS (Agril. Extn)/ T-6	1	-
SMS (Home Sc.) / T-6	-	2018
Programme Assistant (Computer)/ T-5	1	-
Programme Assistant/ T-5	1	-
Farm Manager/T-5	1	-
Assistant	-	2011
Stenographer, Grade – III	-	2017
Driver/ T-2	1	-
Driver / T-2	1	-
Skilled Supporting Staff	1	-
Skilled Supporting Staff (Cook)	1	-
Total	12	-

15. Status of infrastructure

Infrastructure	Complete	Under construction	Not started	Reasons, if not started
Administrative building	Yes			
Trainees' hostel	Yes			
Staff quarter	Yes			
i) IFS	Yes			
ii) Portable Carp Hatchery			Yes	Fund not allotted
iii) Goatery			Yes	Fund not allotted

16. Fund requirement and expenditure (Rs.)

Total Fund Requirement:

	Expenditure (last year) (Rs. in lakh)	Expected requirement (Rs. in lakh)
Recurring		
i. Pay & allowance	54.20	60.00
ii. Contingency	10.00	15.00
iii. TA	1.30	2.00
iv. HRD	-	-
Non-recurring (specify)		
i. Works (Road, threshing floor, drying yard, vehicle and implement shed, irrigation system etc.)	4.00	5.00
iv. Furniture & Equipment	3.00	9.00
v. Vehicle and tractor	-	-
TOTAL	72.50	91.00

**Senior Scientist & Head,
KVK, Keonjhar**