

ACTION PLAN 2019 – 20



**KRISHI VIGYAN KENDRA
SUNDARGARH-II
ODISHA UNIVERSITY OF AGRICULTURE & TECHNOLOGY (OUAT)
ROURKELA**

1. Name of the KVK : Sundargarh-II
 2. Name of host organization : Odisha University of Agriculture and Technology (OUAT)

Training programmes to be organized (April 2019 to March 2020)

(a) Farmers and Farm women

Them atic Area	Title	No of traini ng	Duratio n	On / Off campus	No of participants					
					S C	S T	Other s	M	F	Total *
I Crop Production										
CP	Training on weed management in transplanted rice	01	01	OFC						25
CP	Training on suitable herbicides in rice.	01	01	OFC						25
CP	Training on rice nursery management	01	01	OFC						25
CP	Training on green manuring in rice.	01	01	OFC						25
CP	Training on nursery management and transplanting in Ragi	01	01	OFC						25
CP	Training on nutrient management practices in Ragi	01	01	OFC						25
CP	Training on weed management in sesamum	01	01	OFC						25
CP	Training on nutrient management in sesamum	01	01	OFC						25
CP	Training on suitable crops for rice fallow system	01	01	OFC						25
CP	Training on nutrient management in chickpea	01	01	OFC						25
CP	Training on weed management in chickpea	01	01	OFC						25
CP	Training on suitable crops for intercropping with maize nutrient management in maize + cowpea intercropping	01	01	OFC						25
CP	Improved cultivation technique of mustard	01	01	OFC						25
CP	Improved cultivation technique of mustard	01	01	OFC						25
CP	Improved cultivation technique of sweet corn	01	01	OFC						25

II Horticulture										
HOF	Training on Nutrient Management in Mango	01	01	OFC						25
HOF	Training on use of plant growth regulator in Mango	01	01	OFC						25
HOS	Training on Herbicide application in Rabi Onion	01	01	OFC						25
HOO	Training on Nursery management of marigold	01	01	OFC						25
HOV	Training on Nursery management in kharif Tomato	01	02	OFC						25
HOV	Training on Nutrient management & Staking method in Tomato	01	01	OFC						25
HOV	Training on nutrient management in cauliflower	01	01	OFC						25
HOV	Training on integrated nutrient management in cole crops	01	01	OFC						25
HOV	Training on Improved cultivation technique of Chilly	01	01	OFC						25
HOV	Training on Integrated nutrient management in Brinjal	01	01	OFC						25
HOT	Training on Improved cultivation technique of Sweet Potato	01	01	OFC						25
HOV	Training on protected cultivation of Tomato	01	01	OFC						25
HOV	Training on improved cultivation technique of Okra	01	01	OFC						25
HOV	Training on protected cultivation of capsicum	01	01	OFC						25
HOV	Training on production of organic tomato	01	01	OFC						25
HOF	Training on improved package and practices for higher productivity of guava orchards	01	01	OFC						25
III Soil Health and Fertility Management										
IV Livestock Production and Management										
V Plant Protection										
PLP	Training on thrips and mites management in chilly	01	01	OFC						25
PLP	Training on integrated pest and disease management in chilly	01	01	OFC						25
PLP	Training on different IPM methods for management of fruit fly	01	01	OFC						25
PLP	Training on integrated management of melon fruit fly in	01	01	OFC						25

	cucurbits.									
PLP	Training on different IPM practices for stem Borer management	01	01	OFC						25
PLP	Training on major pest and disease management in paddy.	01	01	OFC						25
PLP	Training on different IPM practices for sucking pest management	01	01	OFC						25
PLP	Training on integrated management of YMV in Blackgram.	01	01	OFC						25
PLP	Training on different IDM practices in solanaceous crop	01	01	OFC						25
PLP	Training on wilt management in solanaceous crop.	01	01	OFC						25
PLP	Awareness cum training program on scientific bee keeping	01	01	OFC						25
PLP	Training on different pest and disease management in Indian Bee	01	01	OFC						25
PLP	Training on IPM of Pod Borer in Pigeon pea	01	01	OFC						25
PLP	Training on IPM of DBM in Cole Crops	01	01	OFC						25
PLP	Training on Disease and Pest Management in Banana	01	01	OFC						25
PLP	Training on Disease and Pest Management in Marigold	01	01	OFC						25
VI Fisheries										
VIII Agricultural extension										
CBD	Training on market led production initiatives for vegetables	01	01	OFC						25
IX Women in Agriculture										
WOE	Training on preparation of Paddy straw mushroom beds by using threshed straw as substrate	01	01	OFC						25
WOE	Training on disease management of paddy straw mushroom	01	01	OFC						25
WOE	Training on improved backyard poultry	01	01	OFC						25
WOE	Training on feed management of poultry birds	01	01	OFC						25
WOE	Training on Crop planning in Nutritional garden	01	01	OFC						25
WOE	Training on Nursery raising	01	01	OFC						25
WOE	Training on brooding management of Chicks	01	01	OFC						25

WOE	Training on housing care of backyard poultry chicks	01	01	OFC						25
WOE	Training on use of drudgery reducing implements	01	01	OFC						25
WOE	Training on Value addition through making of Waffers from Jack fruit	01	01	OFC						25
WOE	Training on Hygenic packaging of value added products	01	01	OFC						25
WOE	Training on Plant protection measures for nutritional garden	01	01	OFC						25
WOE	Training on selection of suitable variety for nutrional garden	01	01	OFC						25
WOE	Training on off season paddy straw mushroom	01	01	OFC						25
WOE	Training on safe storage of grains	01	01	OFC						25
WOE	Training on production of organic inputs from kitchen waste	01	01	OFC						25

(b) Rural youths

Thematic Area	Title	No of courses	Duration	On/Off campus	No of participants					
					SC	ST	Others	M	F	Total *
I Crop Production										
CP	Quality seed production technology for pulse and oilseed.	01	03	OFC						15
CP	Method of different type compost making	01	03	OFC						15
II Plant Protection										
PLP	Methods of Soil Solarisation	01	03	OFC						15
PLP	Methods of preparation of Bordeaux mixture	01	03	OFC						15
III Production of Inputs at site										
IV Horticulture										
HOV	Training on Nursery raising techniques of Vegetables	01	03	OFC						15
HOF	Training on planning and layout of orchards	01	03	OFC						15
V Soil Health and Fertility Management										
VI Agricultural Extension										
CBD	Training on entrepreneurial opportunities in agri-horti sector	01	03	OFC						15
CBD	Training on entrepreneurial opportunities in livestock sector	01	03	OFC						15

VII Women in Agriculture										
WOE	Training on commercial mushroom production	01	03	OFC						15
WOE	Training on packing and drying techniques of mushroom	01	03	OFC						15

(c) Extension Functionaries

Thematic Area	Title	No of courses	Duration	On/Off	No of participants					
					SC	ST	Others	M	F	Total *
I Crop Production										
CP	Identification of weeds and their control measures	01	02	OFC						15
II Horticulture										
HOV	Training on use of mulches in horticultural crops	01	02	OFC						15
II Plant Protection										
PLP	Training on use of novel pesticides in Agriculture	01	02	OFC						15
II Women In Agriculture										
WOE	Training on agro based livelihood option for SHGs	01	02	OFC						15
III Agricultural Extension										
CBD	Training on application of new media in extension	01	02	OFC						15
CBD	Training on motivational and communication skills	01	02	OFC						15

(d) Sponsored Training

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

(e) Vocational Training

Thematic Area	Title	courses	Duration	On/Off	No of participants/trainee days					
					SC	ST	O	M	F	Tot
CP	Improved cultivation technique of Vermicomposting	01	05	OFF						10
HOF	Training on commercial propagation method of horticultural crops	01	05	OFF						10
Income Generation	Vocational Training on Bee Keeping	01	05	OFF						10
Income Generation	Training on processing and value addition of fruits and vegetables	01	05	OFF						10
Total		04	20							40

3. Frontline Demonstration

Crop	Season	Title	Technology	No. of demonstration	Area (ha)
Ragi	Kharif	Demonstration on INM practices in Ragi	Application of FYM @5 t/ha & lime @ 0.25LR (applied 15 days before sowing) along with 50%N-P ₂ O ₅ -K ₂ O (30-20-20 kg ha ⁻¹)	10	1
Chickpea	Rabi	Demonstration of chickpea in rice-fallow	Variety JAKI 9218, Minimum tillage, hydro-priming for 3-4 hrs, line sowing at a spacing of 30cm X 15 cm, Seed rate @ 75 Kg/ha Foliar spray of Urea 2% at 20-30 days interval after sowing (Three times)	10	1
Sesamum	Kharif	Demonstration of Amrit variety of Sesamum	1. Amrit variety of duration 70-80 days, average yield of 10 q/ha and have potential yield of 18 q/ha, 70-100 capsules/plant. Seed rate of 5 Kg/ha at a Spacing of 30cm X 10cm, seed treatment with vitavax @2g/Kg of seed, Application of 30-20-30 Kg N, P ₂ O ₅ , K ₂ O/ha	10	1
Maize + cowpea	Kharif	Demonstration on Crop Diversification with Maize + cowpea intercropping (1:1)	Maize + cowpea at 1:1 row ratio with application of STBFR (150-60-60 kg N:P ₂ O ₅ :K ₂ O/ha to maize and 15.75-25-12.5 kg N:P ₂ O ₅ :K ₂ O/ha to cowpea) + FYM(10 t/ha) + Biofertilizer	10	1
Rice	Kharif	Demonstration on management of stem borer in Kharif Rice	Rynaxypyr 20 SC @ 150 ml/ha and Spinetoram 6%+Methoxyfenozide 30% SC @ 400 ml/ha are effective for stem borer management in rice	10	1
Blackgram	Kharif	Demonstration of IPM practices for management of YMV in kharif blackgram.	Seed treatment with Imidacloprid 600 FS @ 5 ml / kg seed + Yellow sticky trap @ 50/ha + Neem oil 5 @5ml/lit spray on appearance of white fly on YST + Spraying of Diafenthiuron 50 WP @ 312.5 g a.i./ha	10	1
Brinjal	Kharif	Demonstration of wilt management in Brinjal	Seed treatment with (Metalaxyl + Mancozeb) @ 2gm/kg followed by soil application of Carbofuran 3G @ 1kg a.i. /ha at planting and soil drenching with Carbendazim 0.15% + Streptocycline 0.015%	10	1
Tomato	Late kharif	Demonstration of Triple resistant tomato var. Arka Rakshak	Arka Rakshak High yielding F1 hybrid developed by crossing IIHR-2834 X IIHR-2833. First F1 hybrid with triple disease resistance to ToLCV, BW and early blight. Fruits square round, large (90-100g), deep red color and firm. Suitable for fresh	10	1

			market and processing. Yield: 75-80 t/ha.in 140 days.		
Cauliflower	Rabi	Demonstration of Arka Microbial Consortium for improvement of curd size of cauliflower in rabi season	Soil Test Based Fertilizer + seed treatment with Arka Microbial Consortium @10gm/100gm seed +soil application with 5kg AMC mixed with 500kg FYM	10	1
Banana	Round the year	Demonstration of INM practices in banana	Application of 75% RDF (300:100:300 gm NPK/plant) +125 gm each of Azotobactor ,Azospirillum & PSB (incubated in FYM). INM practices enrich microbial popularization increasing bunch weight, number of fruit/bunch & yield	10	1
Marigold	Rabi	Demonstration of Marigold variety Bidhan Marigold 2	Number of flowers per plant (128flowers/plant). The flowers are attractive, orange in colour, compact and found suitable for making garland, Flower dia- 4. Cm, Yield- 285 kg/plant	10	1
Brinjal	Kharif	Demonstration of wheel cycle weeder in Brinjal for drudgery reduction for farm women.	Weeding in Brinjal by using wheel cycle weeder, Weeding along interspaces of rows in vegetable 2-3 times at 20 days interval.	10	1
ICT		Demonstration on effectiveness of short- technology videos on technology adoption	Production packages will be divided into different segments and short videos will be produced and disseminated through whats app.	10	-

Enterprises

Enterprise	Season	Title	Technology	No. of demonstration	No. of animal/ area (ha)
Jackfruit	Summer	Demonstration on value addition of jackfruits to minimize wastage in summer season.	Preparation of jackfruit waferr in solar dryer by dipping the slices in brine solution for 5 min for colour retention. And keep inside the solar dryer for 24-30 hrs	10	-
Nutritional garden	Round the year	Demonstration of nutritional garden for Improving Nutritional Security of farm family	1. Trellis structure with PP rope for raising cucurbits: 2. Protray for raising seedlings in small quantity + 3. cement ring tank for vermi composting, Growing vegetables round the year	50	50 units

			covering leafy vegetables, sola , Solanaceous vegetables, Roots and Tubers, cucurbits suiting to consumption pattern + Two Papaya Plants ,One Lemon, one drumstick and two Banana and floriculture in bunds		
Poultry	Round the year	Demonstration on Artificial brooding management in chicks	Brooding management for 21 days with floor space of 0.3 ft ² with help of chick guards, artificial heat @ 1-3 watt/chick, feeder and drinkers @ 1 each for 50 birds. Vaccination against RD on 7th, 28th day IBD on 14th day. Use of electrolytes, preventive antibiotics during brooding	10	100 birds
Bee keeping	Round the year	Demonstration on management of bee colonies for enhancing honey production	Regular and periodic bottom board cleaning, maintaining healthy and populous colony, regular and periodic feeding, removal of old combs and allowing comb construction, need based brood comb alteration and need based colony union or division are recommended for scientific bee keeping with <i>Apis cerena indica</i>	10	1

4. Seed and planting material production

Seed		Planting material	
Crop	Area	Crop	Area/No

5. Extension Activities

Activities	No.	Participants
Field Day	10	
Kisan Mela	01	
Kisan Ghosthi	06	
Exhibition	02	
Film Show	60	
Method Demonstrations	10	
Farmers Seminar	01	

Workshop	04	
Group meetings	30	
Lectures delivered as resource persons	10	
Newspaper coverage	20	
Radio talks	10	
TV talks	10	
Popular Articles	04	
Extension Literature	01	
Farm Advisory Services	150	
Scientific visit to farmers field	360	
Farmers Visit to KVK	15	
Diagnostic Visits	02	
Exposure Visits	05	
Ex-trainees Sammelan	04	
Soil Health Camp	03	
Animal Health Camp	04	
Agri Mobile Clinic	02	
Soil Test Campaigns	01	
Farm Science Club conveners meet	01	
Self Help Group conveners meetings	01	

6. Revolving Fund

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

7. Expected fund utilization

Project	Source	Amount to be received (Rs. in lakh)

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

Thematic area	Title	Treatments		No. of farmers
INM	Assessment of different plant growth regulators in controlling Alternate bearing in mango	FP	No use of Plant growth regulator to control irregular bearing	7
		TO-1	Application of Paclobutrazol @ 0.25 g a.i/m ² canopy spread in the month of October	
		TO -2	Application of Ethephon @ 200 ppm at fortnightly interval & subsequent spray for 5 times at fortnightly interval	
IPM	Assessment on integrated management of thrips in Chilli	FP	Spraying of (Trizophos + Deltamethrin) @ 1lt/Ha	7
		TO- 1	Spray of Acephate @ 1.5 g/l + Neem oil @ 2 ml/l followed by spray of Fipronil @ 1.0 ml/l + Neem oil @ 2 ml/l weekly interval till fruit formation	
		TO- 2	Spray of Imidacloprid @ 2 g/15 l + Neem oil @ 2 ml/l followed by spray of Cyazypyr @ 1.8 ml/ l at weekly interval till fruit formation	

IPM	Assessment of IPM practices for management of melon fruit fly in summer bitter gourd	FP	Spraying of (Trizophos + Deltamethrin) @1lt/Ha	7
		TO- 1	Soil application of chlorpyriphos dust around the plant at 30 DAG + placement and spot application of Jaggery (100 g), dichlorvos (2 ml) and water (1 liter) poison bait (BAT) and periodic removal and destructions of damaged fruits	
		TO- 2	Soil application of chlorpyriphos dust around the plant at 30 DAG + installation of cue lure @ 20/ha (MAT) and periodic removal and destructions of damaged fruits	
IPM	Assessment of BPH tolerant Rice varieties	FP	Swarna	7
		TO-1	CR Dhan 300	
		TO-2	Hasanta	
IWM	Assessment of herbicides for weed management in transplanted rice	FP	Manual weeding	7
		TO-1	Pre emergence application of herbicide (Bensulfuron methyl 0.6%+ Pretilachlor 6.0%) @ 10 kg/ha at 4 DAT	
		TO-2	Application of pendimethalin @ 750 g/ha as pre-emergence application i.e 0-3 DAT followed by Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAT	
IWM	Assessment of different herbicides for weed management in Rabi onion	FP	Manual weeding	7
		TO-1	Application of Oxyfluorfen 23.5% EC @1ml/litre +Quizalofop-p-ethyl @2ml/litre at 20-25 DAT	
		TO-2	Application of Oxyfluorfen 23.5% EC @1.5ml/litre at 3 DAT followed by one hand weeding at 40 to 60 DAT	
Income generation	Comparative Assessment of Stress tolerant improved poultry breeds for Backyard production system	FP	Rearing of Desi birds	7
		TO-1	Rearing of Kadaknath	
		TO-2	Rearing of Aseel	
Income generation	Assessment of threshed straw as substrate for production of paddy straw mushroom	FP	Mushroom cultivation using bundled straw	13
		TO-1	Mushroom production by using threshed paddy straw by soaking in water 5 hr+ paddy straw 5 kg+ pulse powder 3% Spawn- 3%	
		TO-2	Mushroom production by using threshed paddy straw by soaking in water 5 hr+ paddy straw 5 kg+ pulse powder 3% Spawn- 3%	
Marketing	Assessment of different planting time for better market price of Tomato	FP	Farmers generally plant the seedling in the month of October	13
		TO-1	Planting of seedling 15 days before onset of normal planting period	
		TO-2	Planting of seedling 15 days after completion of normal planting period	

9. List of Projects to be implemented

Name of the project	Fund expected (Rs.)
Capacity Building, Training for Farmer and Farm Women (ATMA)	1,40,000/-

10. No. of success stories to be developed: 03

11. Scientific Advisory Committee

Date of SAC meeting held during 2018-19	Proposed date
19.12.2018	18.10.19

12. Soil and water testing

Sample	No. of samples to be analysed
Soil	200
Plant	00
Water	00

13. Staff position

Sanctioned	In position	If vacant, since when
Programme Coordinator / Sr. Scientist	01	
SMS (Agril.) / T-7/8	02	
SMS (Hort.) / T-7/8	01	
SMS (A.H. & V.S.) / T-7/8	00	01.04.2012
SMS (Fishery Sc.) / T-7/8	00	01.04.2012
SMS (Agril. Extn) / T-6	01	
SMS (Home Sc.) / T-6	01	
Programme Assistant (Computer) / T-5	01	
Programme Assistant / T-5	01	
Farm Manager / T-5	00	01.04.2012
Assistant	00	01.04.2012
Stenographer, Grade – III	00	01.04.2012
Driver / T-2	01	
Driver / T-2	01	
Skilled Supporting Staff	00	01.04.2017
Skilled Supporting Staff (Cook)	00	01.4.2012
Total	10	

14. Status of infrastructure

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

15. Fund requirement and expenditure (Rs.)

Total Fund Requirement:

	Expenditure (last year) (Rs. in lakh)	Expected requirement (Rs. in lakh)
Recurring		
i. Pay & allowance	6500000	8500000
ii. Contingency	1060976	1500000
iii. TA	70000	150000
iv. HRD	00	00
Non-recurring (specify)		
i. Works (Road, threshing floor, drying yard, vehicle and implement shed, irrigation system etc.)	00	9000000
iv. Furniture & Equipment	00	00
v. Vehicle and tractor	00	1000000
TOTAL	7630976	20150000

16. Technological intervention for Doubling Farmers' Income of Sundargarh-II

Module	Farming Situation / AES	Village / Block	Activities to be under taken for the year 2018-19
Module-1	Rainfed Upland /Medium Rainfall Red & Black soil	Guduguda/ Nuagaon	<ul style="list-style-type: none"> ➤ Nutrition & pest management in Sahabagi dhan ➤ Demonstration of Maize – Cowpea intercropping, ➤ INM & IPM in Cowpea ➤ Demonstration of Late kharif tomato with staking & INM & IDM practices ➤ Feed management & Vaccination to poultry, ➤ Mushroom
Module-2	Irrigated Upland / Medium rainfall black & Brown soil	Khatankudar/ Bisra	<ul style="list-style-type: none"> ➤ Nutrient & Weed & Pest management in Hybrid paddy ➤ Nutrient, weed & Pest management in Okra ➤ Nutrient & weed & pest management in onion ➤ Value addition in Tamarind & Jackfruit ➤ Feed management & Vaccination to poultry ➤ Nutrition gardening ➤ Mushroom
Module-3	Rainfed Medium land/ High rainfall Black & Brown soil	Ranto/ Lathikata Nuniapali/ Gurundia	<ul style="list-style-type: none"> ➤ Demonstration of Naveen paddy with INM & IPM practices ➤ Demonstration of Mustard with INM & IPM practices ➤ Demonstration of Bottle gourd with INM & IPM practices ➤ Feed management & Vaccination to poultry ➤ Mushroom
Module-4	Irrigated Medium land/ High rainfall lateritic soil	Putrikhaman/ Kuanmunda	<ul style="list-style-type: none"> ➤ Nutrient, weed & Pest management in Paddy ➤ Demonstration of Mustard with INM & IPM practice ➤ Nutrition, Weed and pest management in Brinjal ➤ Feed management & Vaccination to poultry ➤ Nutrition gardening ➤ Mushroom

Sr. Scientist & Head