

# **ANNUAL ACTION PLAN**

## **2018-19**



**KVK, JAGATSINGHPUR**

**Orissa University of Agriculture & Technology, Bhubaneswar**

**ODISHA**

1. Name of the KVK : Jagatsinghpur  
 2. Name of host organization : OUAT, Bhubaneswar

**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 *
<b>I Crop Production</b>										
ICM	Green manuring in rice	1	1	OFC						30
INM	INM in paddy	1	2	ONC						30
INM	Nitrogen management by LCC methods	1	1	OFC						30
ICM	Different methods of fertilizers application	1	2	ONC						30
SFM	Management of acidic and saline soil	1	2	ONC						30
ICM	Organic rice cultivation	1	2	ONC						30
IWM	Weed management in Rice	1	2	OFC						30
ICM	INM in pulses	1	1	OFC						30
IWM	Integrated weed management in groundnut	1	2	OFC						30
ICM	Recycling of crop residues	1	2	OFC						30
<b>II Horticulture</b>										
Production and Management technology	Integrated crop management of Chilli	1	1	OFC						30
Cultivation of Fruit	Commercial cultivation of papaya and drumstick	1	2	ONC						30
Integrated nutrient management	Integrated nutrient management in Coconut	1	1	OFC						30
Production and Management technology	Integrated crop management in Okra	1	1	OFC						30
Production and Management technology	Integrated crop management in Brinjal	1	1	OFC						30
Production and Management technology	Integrated crop management in Tomato	1	1	OFC						30



Feed Management	Dairy farming: housing, feeding and disease management	1	2	ONC							30
Livestock Production management	Goat husbandry.	1	2	ONC							30
Livestock Production management	Sheep husbandry practices: Kendrapara sheep	1	3	ONC							30
Poultry Management	Duck Husbandry	1	1	ONC							30
Livestock Production management	Financial planning and record keeping in livestock and poultry farming	1	1	OFC							30
Feed Management	Ration balancing in livestock farming.	1	2	OFC							30
<b>IX. Agril. Engineering</b>											
Resource conservation technology	Irrigation Water Management in Tomato	1	1	OFC							30
Farm Mechanization	Calibration of Seed cum fertilizer drill	1	1	OFC							30
Drudgery Reduction	Use of Manual Paddy Grain Cleaner	1	1	OFC							30
Farm Mechanization	Operation of Wheel Cycle Weeder in Groundnut	1	1	OFC							30
Farm Mechanization	MAT type nursery raising technique for using 8-row Self Propelled Rice Transplanter	1	1	OFC							30
Repair & maintenance of farm implements	Operation and maintenance of Power Weeder	1	1	OFC							30
Micro Irrigation	Installation and maintenance of micro irrigation in vegetable crops	1	2	OFC							30
Resource conservation Technology	Use of plastics in farming	1	1	OFC							30

<b>Total</b>	<b>43</b>	<b>62</b>								<b>1290</b>
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**(b) Rural youths**

Thematic Area	Title	No of courses	Duration	On/Off campus	No of participants					
					SC	ST	Others	M	F	Total*
<b>I Crop Production</b>										
Seed Production	Paddy seed production	1	2	ONC						20
Seed Production	Seed production of pulses and oilseed	1	4	ONC						20
<b>II. Horticulture</b>										
Production and Management technology	Commercial floriculture	1	2	ONC						20
Seed Production	Vegetable seed Production	1	2	ONC						20
<b>III. Fishery</b>										
<b>IV. Production of Inputs at site</b>										
<b>V. Agricultural Extension</b>										
<b>VI. Plant Protection</b>										
IPM	Production of botanicals pesticides	1	2	ONC						20
IPM	Production of bio formulations and bio agents	1	2	ONC						20
<b>VII. Veterinary Science</b>										
Feed Management	Fodder cultivation	1	2	OFC						20
Feed Management	Use of unconventional feed sources for livestock: paddy straw enrichment, silage making, azolla cultivation	1	2	ONC						20
Poultry Management	Brooding management of chicks	1	2	ONC						20
<b>VII. Agriculture Engineering</b>										
Custom hiring	Custom hiring through Agro Service Centre	1	2	ONC						20
<b>Total</b>		<b>10</b>	<b>22</b>							<b>200</b>

**(c) Extension functionaries**

Thematic Area	Title	No of courses	Duration	On/Off	No of participants					
					SC	ST	Others	M	F	Total *
<b>I Crop Production</b>										
Crop management	Integrated farming system for livelihood security	1	2	ONC						20
	Organic farming for sustainable production	1	2	ONC						20
<b>II Horticulture</b>										
Protective cultivation	Protected cultivation of High value crops	1	2	ONC						20
Organic Vegetable Production	Organic vegetable cultivation	1	2	ONC						20
<b>III. Plant Protection</b>										
IPM	IPM in Oilseed and Pulse	1	2	ONC						20
IPM	IPM in cereal	1	2	ONC						20
<b>IV. Animal Sc.</b>										
Disease Management	Parasitic Disease management	1	2	ONC						20
Feed Management	Importance of balanced feeding in cows	1	2	ONC						20
<b>V. Agril. Engineering</b>										
Micro Irrigation	Irrigation water management in Field crops	1	2	ONC						20
<b>Total</b>		<b>9</b>	<b>18</b>							<b>180</b>

**(d) Sponsored Training**

Thematic Area	Title	Courses	Duration	On/Off	No of participants					
					SC	ST	O	M	F	Tot
Income Generation Activity	Jute Handicraft Training	06	06	On	1		19		20	20
<b>Total</b>		<b>06</b>	<b>06</b>		<b>1</b>		<b>19</b>		<b>20</b>	<b>20</b>

**(e) Vocational Training**

Thematic Area	Title	courses	Duration	On/Off	No of participants/trainee days					
					SC	ST	O	M	F	Tot
Entrepreneurship Development	Entrepreneurship development through Nursery business.	1	5	ONC						20

Poultry Management	Scientific Poultry farming	1	5	ONC						20
Farm mechanization	Operation & maintenance of harvesting implements in paddy	1	5	ONC						20
Apiculture	Honeybee keeping	1	10	ONC						20
<b>Total</b>		<b>4</b>	<b>25</b>							<b>80</b>

### 3. Frontline Demonstration

Crop	Season	Title	Technology	No. of demonstration	Area (ha)
Rice	Kharif - 2018	Demonstration of LCC method for nitrogen management in rice	Application of LCC methods for nitrogen management in Rice crops	10	2.0
Rice	Kharif - 2018	Demonstration of Nimin coated urea for check leaching loss and increases of yield of paddy.	Application of Nimin coated urea for leaching loss and increases of yield of paddy.	10	2.0
Okra	Kharif-2018	Demonstration of Okra variety "Kashi Pragati"	Okra variety "Kashi Pragati" Yield 180-190 q/ha during rainy and 130-140 q/ha during summer season. This is resistant to YVMV and OLCV	10	1.0
Rice	Kharif-2018	<b>Demonstration</b> on management of rice leaf folder "	Seedling treatment with Cholopyriphos 20% EC @ 5ml/lit, Installation of bird perches , release of bio agents Trichogramma chilonis @ 50,000/ha and Spraying of Flubendiamide 20 WG 125- 150 g/ha(6gm/10litre water) after 30 & 60 DAT	10	2.0
Rice	Kharif-2018	Demonstration on management of BPH and WBPH in transplanted Rice	Alley planting 30cm,alternate wetting and drying ,split application on N fert. Alternate spraying of Buprofezin 25 %SC @ 200gm a.i/ha .and Dinotefuran 20SG 30 gm a.i/ha twice at 10-15 days interval alternatively"	10	2.0
Rice	Kharif-2018	Demonstration of Self propelled 8-row Rice Transplanter	Self propelled 8-row Rice Transplanter - Raising of seedling in tray or polythene sheet .Then line transplanting of Paddy seedling by the use of transplanter in puddled field with field capacity 0.2 ha/h with row to row distance of (20-25)cm.	05	1.0
Ground nut	Rabi 2018-19	Demonstration on weed management in groundnut	Application of of Early post emergence Imazethapyr application @750ml /ha for weed management in groundnut	10	2.0
Green gram	Rabi 2018-19	Demonstration on @ % DAP application in Green gram for higher yield	Application of 2% DAP in green gram with STBR for yield enhancing	10	2.0

Brinjal	Rabi, 2018-19	Demonstration of Brinjal variety “Swarna Mani”	Brinjal variety-“swarna Mani” Fruit: Attractive, shiny purple in colour, round in shape. Moderately resistant to bacterial wilt. Recommended for Bihar, Jharkhand and Odisha. Suitable for bacterial wilt prone areas. Time of sowing : August –September. Moderately resistant to bacterial wilt Yield : 60-65 t/ha	10	1.0
Tomato	Rabi, 2018-19	Demonstration of Tomato variety “Arka Rakshak”	F <sub>1</sub> hybrid with triple disease resistance to ToLCV, BW and early blight. Fruits square round, large (90-100g), Deep red, firm fruits Suitable for fresh market and processing. Yield 75-80 t/ha. in 140 days.	10	1.0
Chilli	Rabi, 2018-19	Demonstration of Chilli variety “Arka Harita”	Chilli variety-Arka Harita, High Yielding Chilli F1 Hybrid Developed By Using MS Line. Plants Tall (1m) Spreading (90cm.).Fruits Medium Long (10 Cm) With Width 1 Cm. Fresh Yield 31 T/ Hectare And Dry Yield 6 T/ Ha In 150-160 Days. Fruits Are Dark Green And Turn Red. Tolerant To Powdery Mildew And Viruses.	10	1.0
Brinjal	Rabi, 2018-19	Demonstration on Bio intensive management of Brinjal fruit and shoot borer”	Seedling planted with neem cake @200kg/ha ,plucking of infested twigs /branches and fruits regularly before spraying with Neem oil4ml/lit, Pheromone traps 25no/ha ,bird perches@15/ha ,weekly release of T chilonis @50,000/ha and spraying of Bt @ 2ml/lit at 10 days interval .	10	2.0
Okra	Rabi, 2018-19	Demonstration on management of white fly in Okra	Seed treatment with Imidacloprid 70 WS @5gm/kg, Installation of yellow trap 25/ha, Spraying of Pymetrozine 250ml/ha and neem oil 2% at 7 days regular interval (thrice) after 25DAS	10	2.0
Rice	Rabi, 2018-19	Demonstration of Manual Grain Cleaner	Manual Grain Cleaner - Working capacity 75 kg / h. Easy to operate. The mechanism consists of two outlets. By revolving the handle the clean grain comes from one outlet and impurities comes from another outlet.	05	1.0
Ground nut	Rabi, 2018-19	Wheel Cycle Weeder for intercultural operations in Groundnut	Cycle weeder - A cycle wheel attached for easy operation with shovel type tyne, push pull action	05	1.0
Cauliflower	Rabi, 2018-19	Demonstration of Power Weeder in Cauliflower	Power Weeder (4-stroke petrol engine) with adjustable working width (30-45)cm, 0.33 ac/hour	05	1.0
<b>Total</b>				<b>140</b>	<b>24.0</b>



## Enterprise

Enterprise	Season	Title	Technology	No. of demonstration	No. of animal/ area (ha)
Dairy	Kharif	Trace mineral feeding for prevention of delayed maturity in heifers	<ul style="list-style-type: none"> <li>Deworming with Fenbendazole/Oxyclozanide</li> <li>Feeding of mineral mixture having trace minerals Cobalt, Copper, Selenium, Zinc, Iron, Iodine, Manganese in pre-pubertal heifers@ 30-40gms/heifer/day</li> </ul>	10	10
Dairy	Kharif	Fodder cultivation for dairy farming.	<ul style="list-style-type: none"> <li>Cultivation of Hybrid Napier grass (CO4) and fodder cowpea (EC – 4216).</li> <li>Feeding of green fodder @ 2-3% of bodyweight.</li> <li>Mineral supplementation @ 60 gm/animal/day</li> </ul>	5	5
Poultry	Rabi	Rearing of OUAT synthetic colour broiler in backyard.	OUAT synthetic colour broiler Body weight in semi intensive system 1.8 kg at 2 months	20	20
Goatery	Rabi	Concentrate feeding in goats during lean season for optimum weight gain	<ul style="list-style-type: none"> <li>Concentrate feeding @ 100gms (1% of body weight) + 5 gm Mineral mixture/day/goat during lean season</li> <li>Deworming with Fenbendazole + Praziquantel</li> </ul>	10	10
Fishery	Kharif	Demonstration of “ Jayanti rohu” in Mixed Carp Culture	Stocking of Jayanti Rohu fingerlings @3:4:3 (catla:jayanti rohu:mirgal) along with carps in composite pisciculture	05	1.0
<b>Total</b>				<b>50</b>	<b>45 /1.0</b>

### 4. Seed and planting material production

Seed		Planting material	
Crop	Area/ Quantity	Crop	Area(ha)/No
Paddy-Var. Pooja(FS)	3.0 ha	Papaya seedlings (Var. Ranchi dwarf/ Pusa Nanha)	1,000 nos.
Paddy-Var. Gayatri(FS)	4.0 ha	Drumstick (Var. PKM-1)	1,000 nos.
Green gram-Var. IPM-02-14(FS)	2.0 ha	Brinjal seedlings(Var. Swarna Mani)	30,000 nos.
		Chilli seedlings(Var. Arka Harita)	30,000 nos.
		Tomato seedlings(Var. Arka Rakshak)	30,000 nos.
<b>Total</b>	<b>9.0 ha</b>	<b>Total</b>	<b>92,000 nos.</b>

## 5. Extension Activities

Activities	No.	Participants
Field Day	15	600
KisanMela	03	1200
KisanGhosthi	02	40
Exhibition	06	4000
Film Show	08	400
Method Demonstrations	12	180
Farmers Seminar	02	800
Workshop	-	-
Group meetings	12	120
Lectures delivered as resource persons	29	1000
Advisory Services	23	16000
Scientific visit to farmers field	180	720
Farmers visit to KVK	965	1000
Diagnostic visits	38	400
Exposure visits	2	32
Ex-trainees Sammelan	1	50
Soil health Camp	-	-
Animal Health Camp	1	62
Agri mobile clinic	-	-
Soil test campaigns	5	122
Farm Science Club Conveners meet	2	43
Self Help Group Conveners meetings	-	-
MahilaMandals Conveners meetings	--	-
Celebration of important days (specify)		
• Swatchta Hi Sewa	1	120
• MahilaKisan Divas	1	50
• World Soil Day	1	250
• World Food Day	1	60
• Jai Kisan Jai Vigyan	1	70
• World Meteorological Day	1	50
• Akshaya Tritiya	1	50
• Agril. Education Day	1	100
• Any Other (Specify)		
<b>Total</b>	<b>1310</b>	<b>25918</b>

## 6. Revolving Fund

Open balance as on 1 <sup>st</sup> april 2018 (Rs. in lakh)	Amount to be invested (Rs.)	Return (Rs.)
2.94980	Nil	Nil

## 7. Expected fund utilization

Project	Source	Amount to be received (Rs. in lakh)
Skill Development Training on Small Poultry Farmer	Agricultural Skill Council of India, Govt. of India	1,58,200
Skill Development Training on Quality Seed Production	Agricultural Skill Council of India, Govt. of India	1,58,200

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

Thematic area	Title	Treatments	No. of farmers
Varietal Evaluation	Assessment of BPH tolerant Rice varieties	FP – Pooja TO-1-Hasanth TO-2- DRR44 -	10
Integrated weed Management	Assessment of weedicides in transplanted paddy	FP- Pretilachlor+ One hand weeding at 30 DAT To1-Assessment of Metsulfuron+ chloromuron (Almix) for weed + hand weeding at 30 DATmanagement in transplanted paddy  To2-Application of londax powerv(Pretilachlor 6%+ Bensulphuron methyl0.6%)+ hand weeding at 30 DAT	10
Integrated Nutrient Management	Assessment of Microbial growth promoters in cauliflower.	FP-No use of biofertilizer. TO1-Use of Arka Microbial Consortium TO2-Use of Seed Pro	10
Integrated Pest Management	Assessment of bio-pesticide for the management of fungal wilt in Brinjal	FP- No use of bio-pesticide TO1- Use of <i>Trichoderma harzianum</i> TO2- Use of <i>Trichoderma viride</i>	10
Animal Science	Assessment of bypass fat feeding on milk production in dairy cattle	FP - Feeding of paddy straw and concentrate poor and irregular provisioning of green fodder.  TO1:Feeding Mineral mixture @ 60 gm /day/cow during first 3 months of lactation. TO2:Bypass protein feeding @ 100 gms + 60 gm Mineral mixture/day/cow during first 3 months of lactation	20
Animal Science	Assessment of multi-enzyme mixture on growth of chicken in semi intensive rearing system.	FP – Free range feeding of chicken without any feed supplementation TO1- Free range feeding and feed supplementation @ 30gm/day/bird TO2- Multi enzyme mixture @ 0.5% of feed intake along with free range feeding and 30 gm/day/bird feed supplementation.	10
Plant Protection	Assessment of Integrated management practices against Sheath Blight in Paddy	FP - Use of Hexaconazole 5 EC @ 2.0 ml/lit  TO1-Seed treatment with Thiophenate methyl 75WP@ 1.5gm / Kg of seed. alternate spraying of (Trifloxystrobin 25% + Tebuconazole 50% WG )@ 200gm / ha and Thifluzamide 24% SC @ 375ml / ha at 10 days interval  TO2-Seed treatment with Thiophenate methyl 75WP@ 1.5gm / Kg of seed. alternate spraying of Azoxystrobin 23SC @ 500ml/ha with (Propiconazole + Difenconazole)50 EC, @250ml / acre	13
Plant Protection	OFT-5-Assessment of Integrated management practices for sucking pest complex in Green gram	FP-Use of Dimethoate 30 EC @ 2.0 ml/lit  TO1-Seed treatment with Imidacloprid 70 WS @5gm/kg of seeds , installation of yellow sticky traps 25 nos./ha, Alternate spraying of NSKE 5% and Thiamethoxam 25% WG @100gm/ha at 10 days interval at 40 DAS	13

		TO2-Seed treatment with Imidacloprid70 WS@5gm/kg of seeds , installation of yellow sticky traps 25 nos./ha, spraying of Flonicamid 50 WG @ 200 gm at 10 days interval at 40 DAS	
Agril. Engineering	Assessment of Tractor drawn Multi crop Seed cum Fertilizer drill for sowing of Green gram	FP – Broadcasting method of sowing TO1 – Field capacity – 0.139ha/h, sowing of seeds in 5-rows through cup type metering mechanism, power tiller operated TO2 - Field capacity – 0.4ha/h, sowing of seeds in 9 row with the help of tractor operated Seed cum Fertilizer drill with vertical rotor feed mechanism.	05
Agril. Engineering	Assessment of water requirement of Tomato by different irrigation methods	FP – Furrow Irrigation TO1 – Alternate furrow Irrigation TO2- Skip furrow Irrigation	05
Fishery	Assessment of yield performance of “ Amur Carp” in Composite fish culture	FP: Stocking of common carp with IMC TO1: Stocking catala: rohu: mirgal: amur carp (3000: 4000 : 2000: 1000) 10000 fingerlings /ha along with other recommended practice TO2: Stocking Catala; Rohu; mrigal: Amur carp(3000:4000:1000:2000) 10000 fingerlings /ha along with other recommended practice	04
<b>Total</b>			<b>84</b>

### 9. List of Projects to be implemented

Name of the project	Fund expected (Rs.)

### 10. No. of success stories to be developed: 4

### 11. Scientific Advisory Committee

Date of SAC meeting held during 2017-18	Proposed date
13.03.2018	1 <sup>st</sup> Week of September 2018

### 12. Soil and water testing

Sample	No. of samples to be analysed
Soil	350
Plant	-
Water	-

### 13. Staff position

Sanctioned	In position	If vacant, since when
Programme Coordinator / Sr. Scientist	1	
SMS (Agril. Engg.) / T-7/8	1	
SMS (Hort.) // T-7/8	1	
SMS (A.H. & V.S.) // T-7/8	1	
SMS (Fishery Sc.) // T-7/8	0	August 2014
SMS (Plant Protection)/ T-6	1	
SMS (Home Sc.) / T-6	0	September 2017
Programme Assistant (Computer)/ T-5	1	Deployed at DEE, OUAT since 24.07.17.
Programme Assistant/ T-5	0	September 2017
Farm Manager/T-5	1	
Assistant	0	September 2017

Stenographer, Grade – III	1	
Driver/ T-2	1	
Driver / T-2	1	
Skilled Supporting Staff	1	
Skilled Supporting Staff	1	
<b>Total</b>	<b>12</b>	

#### 14. Status of infrastructure

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

#### 15. Fund requirement and expenditure (Rs.)

##### Total Fund Requirement:

	Expenditure (last year) (Rs. in lakh)	Expected requirement (Rs. in lakh)
<b>Recurring</b>		
i. Pay & allowance	71.0	90.0
ii. Contingency	13.0	15.0
iii. TA	1.0	1.8
iv. HRD	-	-
<b>Non-recurring (specify)</b>		
i. Works (Road, threshing floor, drying yard, vehicle and implement shed, irrigation system etc.)	4.0	20.0
iv. Furniture & Equipment	3.0	5.0
v. Vehicle and tractor	-	9.0
<b>TOTAL</b>	<b>92.0</b>	<b>140.8</b>

Sd/-  
Sr. Scientist & Head  
KVK, Jagatsinghpur