

# Action Plan 2018 - 19

## KRISHI VIGYAN KENDRA NAYAGARH



1. Name of the KVK : Nayagarh  
 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.Plant Protection</b>										
IPM	Biological control for sugarcane borers	1	1	OFC						25
IPM	Integrated pest management of BPH in paddy	1	1	OFC						25
IDM	Integrated disease mgt. of sheath Blight and Blast in paddy	1	1	OFC						25
IDM	Integrated management of die back & fruit rot diseases in chilli	1	1	OFC						25
IPM	IPM of major insect pest in cole crops	1	1	OFC						25
IPM	Integrated pest management of fruit & shoot borer in brinjal	1	1	ONC						25
IDM	Integrated disease mgt. of tikka and collar rot in groundnut	1	1	OFC						25
IPM	Integrated pest management of fruit fly in cucurbits	1	1	OFC						25
<b>II. Agricultural extension</b>										
ICT	ICT in Agriculture	2	2	ONC						25
Marketing approach	Market Led extension	2	2	ONC						25
Group dynamics	Cooperative and Contract Farming	1	1	ONC						25
Group dynamics	Leadership development for community work	1	1	OFC						25
Group dynamics	Role & responsibilities of SHGs	1	1	OFC						25

ICT	Effective delivery of message among farmers	2	2	OFC						25
<b>III. Agriculture Engineering</b>										
Plasticulture application	Use of Micro irrigation system in horticultural crops	1	1	OFC						25
Farm mechanization	Repair & maintenance of farm implements	1	1	ONC						25
Plasticulture application	Plasticulture application in vegetable cultivation.	1	1	OFC						25
Farm mechanization	Use of farm impliments in farming systems	1	1	OFC						25
Farm mechanization	Use of power operated sun flower thresher.	1	1	OFC						25
Farm mechanization	Use of bullock drawn groundnut digger.	1	1	OFC						25
Farm mechanization	Use of power operated ragi thresher.	1	1	OFC						25
<b>IV. Home Science</b>										
Post harvest practices	Store grain pest mgt. by using pro super bag in pulses	1	1	OFC						25
Income generation	Cultivation of paddy straw mushroom using threshed straw	1	1	OFC						25
Income generation	Cultivation of oyster mushroom by using different varieties of spawn	1	1	OFC						25
Income generation	Scientific mgt.of nursery for empowering the	1	1	OFC						25

	farm women									
Value addition	Preparation of value added product of mango	1	1	ONC						25
Nutrition mgt.	Preparation of Nutritional garden in backyard for better nutritional security	1	1	ONC						25
Post harvest operation	Processing technique of tender Jackfruit	1	1	ONC						25
<b>V. Forestry</b>										
Agro forestry	Propagation of bamboos for culm cutting method	1	1	ONC						25
Agro forestry	MPT and their cultivation techniques	1	1	ONC						25
Agro forestry	Meeting of fuel wood through homestead forestry	1	1	ONC						25
Agro forestry	Important medicinal plants and their uses	1	1	OFC						25

**(b) Rural youths**

Thematic Area	Title	No of courses	Duration	On/Off camps	No of participants					
					S C	ST	Others	M	F	Total*
<b>I.Plant Protection</b>										
IDM	Application of Bio-control measures in pest management	1	2	ONC						20
IDM	Integrated pest & diseases management in fruit crops	1	2	ONC						20

<b>II. Agriculture Engineering</b>										
Protected cultivation	Protected cultivation	2	2	ONC						40
	Micro irrigation system and its use in agriculture	1	2	ONC						20
<b>III Agricultural Extension</b>										
Group dynamics	Enriching the farm profitability through FPOs	2	4	ONC						40
<b>IV. Home Science</b>										
Income generation	Mushroom cultivation for empowerment rural youth	1	2	ONC						20
Organic farming	Vermicomposting for upliftment of rural youth	1	2	ONC						20

**(c) Extension functionaries**

Thematic Area	Title	No of courses	Duration	On/Off	No of participants					
					SC	ST	Others	M	F	Total *
<b>I. Plant Protection</b>										
IPDM	Use of new molecules of pesticide in agriculture	1	2	OFC						20
IPDM	IPDM in pulses	1	2	OFC						20
IPDM	Bio intensive pest management in Horticultural crops	1	2	OFC						20
<b>II. Agriculture Engineering</b>										
Farm mechanization	Farm mechanization in rice cultivation.	1	2	OFC						20
Plasticulture application	Water conservation in horticultural crops	1	2	OFC						20
Farm mechanization	Farm mechanization in pulse cultivation	1	2	OFC						20

<b>III. Home Science</b>										
Income generation	Different livelihood option in agriculture and allied sector	1	2	OFC						20
Drudgery reduction	Drudgery reduction of farmwomen by using small tools	1	2	OFC						20
Nutrition mgt.	Improve family and community practices in nutrition and health care	1	2	OFC						20
<b>IV. Agricultural Extension</b>										
ICT	Management of Information System	1	1	ONC						20

**(d) Sponsored Training: NA**

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

**(e) Vocational Training**

Thematic Area	Title	courses	Duration	On/Off	No of participants/trainee days					
					SC	ST	O	M	F	Tot
Income generation (plant protection)	Scientific beekeeping for income generation	1	4	ONC						10
Mechanization (Agriculture Engineering)	Operation and maintenance of farm implements used in paddy cultivation	1	4	ONC						10
Farm mechanization (Agriculture Engineering)	Entrepreneurship development through farm mechanization	1	4	ONC						10
Value addition (Home Science)	Preparation of different value	1	4	ONC						10

	added products of fruits & vegetables									
Income generation (Home Science)	Scientific mushroom spawn production technique	1	4	ONC						10
Group dynamics (Agril. Extension)	Formation and management of farmers producers organization	1	4	ONC						10
<b>Total</b>		<b>6</b>	<b>24</b>							<b>60</b>

### 3. Frontline Demonstration

Crop	Season	Title	Technology	No. of demonstration	Area (ha)
Rice	Kharif 2018	Integrated pest management of BPH in paddy	FP: Staggered transplanting, Alternate wetting and drying of the field, Spraying of Acephate 750 gm/ha or Buprofezin 25 SC @ 750 ml/ha or Dichlorvos 500 ml/ha at 10-15 days interval RP: Line transplanting, alley planting, Alternate wetting and drying of the field, alternate spraying of Neem oil (300 ppm) @ 2.5 lit/ha, Flonicamid 50 % WG @ 150 gm/ha and Pymetrozine 50%WG @ 300 gm/ha at 10-15 days interval	10	1.6 ha
Brinjal	Kharif 2018	Demonstration of IPM practice for management of shoot & fruit borer in Brinjal	FP: Spraying of Chlorpyrifos or Triazophos or Chlorpyrifos + cypermethrin @ 1lit/ha RP: Removal of affected fruit and clipping of affected shoot and burry it, use of pheromone trap @ 20 traps /ha, Alternate spraying of neem pesticides(300PPM) @ 2.5 Lit/Ha, Spinosad @ 200 ml/Ha and Flubendiamide 39.35% SC @125 ml/Ha	10	1 ha
IDM	Rabi 2018-19	Demonstration of IDM for collar rot in	FP: No seed treatment and spraying with carbendazim @ 1gm/lit of water	10	0.8 ha

		groundnut	RP: Soil Treatment with <i>T.viridae</i> @ 2.5kg/ha incubated with 60kg FYM, Seed treatment with carboxyn + thiram @ 2g/kg of seed, rouging of the infected plants, spraying the root zone of the plant with carbendazim + mancozeb @ 1kg/ha for 2 times at 10 days interval starting from initiation of diseases		
Potato	Kharif 2018-19	Popularization on power operated ragi thresher	FP: Manually (Beating by stick) RP: Yield capacity-35kg/hr, No of mandays/ha- 2 no	10	1 ha
Sunflower	Rabi 2018-19	Demonstration on power operated sunflower thresher	FP: Manually (Beating by stick) RP: Yield capacity-50Kg/Hr, No of Man days/Ha- 2 no	10	10units
Tomato	Kharif-2018	Demonstration on mulching in tomato	FP: Traditional planting method (60x 45 cm) without mulching, ridge and furrow irrigation RP: Plastic mulch (30 micron), Dual colour mulch (Silver- black)	10	1 ha
Groundnut	Rabi 2018-19	Popularization of bullock drawn groundnut digger	FP: Manual uprooting RP: Drawn by a pair of bullock :Field capacity = 0.05ha/hr	10	1 ha
Nutrition Security	Kharif-2018	Demonstration of nutritional garden for Improving Nutritional Security of farm family	FP: Uneven landmass: brinjal, tomato, onion, cucumber, okra, cauliflower, amaranth with papaya/drumstick  RP: Vegetables(10 Plots): spinach, amaranthus, coriander, green peas ,carrot, broccoli, radish, tomato, onion, cowpea, cucurbits in fencing according to the season with two papaya plants ,one lime, one drumstick and two Banana trees and floriculture in bunds	05	5units



			Support structure: Low cost poly tunnel for seedlings+ trialling structure+ vermitank		
Mango	Rabi 2018- 19	Demonstration on preparation of mango leather using drying cabinet	FP: Traditionally mango leather preparation by open sun drying RP: Pulp extraction , mixing with KMS @ 0.2 gram, spreading on a tray for drying in solar dryer	10	10 unit
Greengram	Kharif 2018- 19	Demonstration on use of Pro supper bag for storage of Pulses (greengram)	FP: Storing of grains in gunny bags RP: Storage of greengram in pro super bags	10	10 units
Jackfruit	Rabi 2018- 19	Demonstration on minimal processing technique of tender Jackfruit	FP: Manual peeling and cutting by knife RP: Tender jackfruit (45-60 days old peeled by peeling machine cut into convenient pieces and dipped into 1.0% citric acid (10-15 minutes) to prevent enzymatic browning and packaging by food grade polythene bags.	20	20 units
Teak, mangium	Kharif 2018- 19	MPTS on field bund	FP: Mostly keeping blank the bunds resulting no benefits RP: Multipurpose trees giving different benefits will be planted on the field bunds	10	2.0 ha
Bamboo	Kharif 2018- 19	Propagation of <i>Bambusa vulgaris</i> through culm cutting method	FP: Traditional way of planting RP: 1 to 2 years matured bamboo cut into pieces with nodes. In between nodes a hole sealed with wate will be propagating new shoots.	10	1.0 ha
Marigold	Rabi 2018- 19	Demonstration of marigold (var. BM-2) under rice- floriculture cropping system	FP: Use of local cultivars (yellow type) with low yield RP: Scientific cultivation of marigold Var. BM-2	10	1.0ha
			<b>Total</b>	<b>145</b>	<b>10.4 ha and 55 units</b>

**Enterprise**

Enterprise	Season	Title	Technology	No. of demonstration	No. of animal/area (ha)

**4. Seed and planting material production**

Seed		Planting material	
Crop	Area	Crop	Area/No
Sugarcane	0.4ha	Forest seeding	1000
		Mango graft	200
		Vegetable seedlings	40000
		Mushroom cultivation	200Kg
		Mushroom Spawn	4000 nos of bottles
		Honeybee	25 Kg
		Vermicompost	10 qtls
		Indian major crap (Fry & fingerlings)	50000
		Poultry	1000
		Marigold cutting	17000

**5. Extension Activities**

Activities	No.	Participants
Farmers' fair	3	1000
Exhibition	3	1200
Field days	14	700
Special day celebration	4	200
Radio talk	4	-
Television talk	4	-
Scientists visit to farmers' field	64	704
KissanGosthi	3	60
No. of farmers visit to K.V.K.	800	800
Diagnostic visit	64	704
Animal health camp	3	150
No. of farmers club to be formed	2	33
Farmers' club meetings to be held	4	100
SHG convention	4	100
Ex-trainees sammelan	3	120
Film show	30	1500
Group meeting	75	700
Lectures delivered as resource person	8	240

**6. Revolving Fund**

Open balance as on 1 <sup>st</sup> april 2018 (Rs. in lakh)	Amount to be invested (Rs.)	Return(profit) (Rs.)
Nil	2,00,000	80,000

## 7. Expected fund utilization

Project	Source	Amount to be received (Rs. in lakh)
IRRI	Govt. of Odisha	0.32
ARYA	ICAR	20.00

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

Thematic area	Title	Treatments	No. of farmer
IPM	Assessment of rice varieties tolerant to BPH/WBPH	FP: Cultivation of paddy variety MTU-7029 TO1: Cultivation of paddy variety Pratikshya TO2: Cultivation of paddy variety Hasanta	07
IDM	Assessment of new molecules for control of sheath blight in paddy	FP: No seed treatment and spraying of Hexaconazole 5 % EC @ 400 ml/ac or propiconazole 25 % EC 200 ml/ac TO1: Seed treatment with Carboxin 37.5 % + Thiram 37.5 % DS @ 2g/Kg of seed & spraying twice with azoxystrobin 18.2% + Difencnazol 11.4% SC @ 200 ml/ac TO2: Seed treatment with Carboxin 37.5 % + Thiram 37.5 % DS @ 2g/Kg of seed & spraying twice with Thifluzamide 24%SC@160 ml/ac	07
Varietal evaluation	Assessment of suitable variety of tomato during late kharif season	FP: Utkal Kumari TO1-Arka Samrat TO2 -Arka Rakshyak	07
Mechanization	Assessment of mechanized weeder in wet land paddy cultivation	FP: Manual weeding (hand weeding) TO1- Cono weeder TO2 – Power weeder  Traditional planting method (60x 45 cm) without mulching, ridge and furrow irrigation	07
Mechanization	Assessment of 8 row self-propelled rice transplanter	FP: Manual random transplanting (random transplanting) TO1- 3- row manual rice transplanter TO2 - 8- row self propelled Rice transplanter	07
Value addition	Assessment of value added products of tomato	FP: Selling of raw tomato, no value addition TO1-Tomato puree TO2-Tomato soup powder	07
Homestead	Assessment of threshed straw for Rice straw mushroom cultivation	FP: Cultivation of rice straw mushroom in uncrumbled straw TO1- Production of rice straw mushroom , threshed straw from axial flow thresher ,pulse powder 3% ,soaking period 5hr TO2- Production of rice straw mushroom , threshed straw from combined harvester ,pulse powder 3% ,soaking period 5hr	07

**9. List of Projects to be implemented**

Name of the project	Fund expected (Rs.)
IRRI	32,000
ARYA	20,00,000

**10. No. of success stories to be developed: 10 nos****11. Scientific Advisory Committee**

Date of SAC meeting held during 2017-18	Proposed date
September 2018	26.09.18

**12 Soil and water testing**

Sample	No. of samples to be analysed
Soil	120
Plant	-
Water	30

**13 Staff position**

Sanctioned	In position	If vacant, since when
Programme Coordinator / Sr. Scientist	1	Vacant since 16.01.2016
SMS (Plant Protection.) / T-7/8	1	1
SMS (Agril.) / T-7/8	1	Vacant
SMS (Hort.) // T-7/8	1	Vacant
SMS (A.H. & V.S.) // T-7/8	1	Vacant
SMS (Fishery Sc.) // T-7/8	1	Vacant
SMS (Agril. Extn)/ T-6	1	1
SMS (Agril. Engg.)/ T-6	1	1
SMS (Home Sc.) / T-6	1	1
Programme Assistant (Computer)/ T-5	1	1
Programme Assistant/ T-5	1	1
Farm Manager/T-5	1	Vacant
Assistant	1	Vacant
Stenographer, Grade – III	1	1
Driver/ T-2	1	1
Driver / T-2	1	1
Skilled Supporting Staff	2	1
Skilled Supporting Staff (Cook)	1	Vacant
<b>Total</b>	<b>17</b>	<b>10</b>

**14 Status of infrastructure**

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

**15. Fund requirement and expenditure (Rs.)****Total Fund Requirement:**

	<b>Expenditure (last year) (Rs. in lakh)</b>	<b>Expected requirement (Rs. in lakh)</b>
<b><u>Recurring</u></b>		
i. Pay & allowance	71.96	90.00
ii. Contingency	9.93	12.00
iii. TA	1.20	1.30
iv. HRD	-	-
<b><u>Non-recurring (specify)</u></b>		
Computer, camera, Invertor, Pump, <a href="#">Home.Sc.Lab</a> Equipment	2.98	7.00
v. Vehicle and tractor		<b>9.00</b>
<b>TOTAL</b>	<b>86.07</b>	<b>119.3</b>

Sd/-

**Sr. Scientist & Head  
KVK, Nayagarh**