KRISHI VIGYAN KENDRA

SITAMARHI

ANNUAL ACTION PLAN

(APRIL 2019 TO MARCH 2020)

SUBMITTED TO

The Director

ICAR-Agricultural Technology Application Research Institute, Patna

Central Potato Research Station

PO- Sahaynagar, Patna- 801506

Bihar

Action Plan 2019-20

1. Name of the KVK : KRISHI VIGYAN KENDRA, SITAMARHI
2. Name of host organization : SAMTA SEVA KENDRA, CHAINPURA, SITAMARHI
3. Training programme to be organized (April 2019 to March 2020)

A) Farmers and farm women (On Campus)

Thematic Area	Title	Duration	No. of Participants			
			SC	ST	other	Total
(A) FARMERS & FARM WOMEN						
I Crop Production	Improved agronomic technique of sugarcane and Ratoon crops	03	02	--	23	25
	Scientific technique for seedling production of paddy	02	04	--	16	20
	Weed management of paddy crop	03	05	--	25	30
	Production technique of Rabi pulses and oil seeds crop	02	05	--	25	30
	Weed management	02	02	--	28	30
	SRI method	01	05	--	20	25
	SWI method	01	05	--	20	25
	Zero tillage method	01	05	--	20	25
II Horticulture						
a) Vegetable Crops	Integrated Nutrient Management in different vegetables	02	05	--	25	30
	Off season cultivation of Tomato & Okra	01	05	--	20	25
b)Fruits	Nutrient Management in Mango and Litchi orchard	02	04	--	16	20
	Plant propagation of Mango, Guava & Litchi	01	04	--	16	20
	Rejuvenation of old orchard	01	04	--	16	20
III Soil Health and Fertility Management	Integrated Nutrient Management	05	05	--	35	40
IV Livestock Production and Management						
	Disease Management	02	05	--	25	30
	Fodder production	02	05	--	25	30
	Feed management	01	03	--	27	30
V Fisheries	Physical and chemical property of water	02	05	--	25	30

	Performance of micro benthos in fish pond	03	05	--	25	30
	Measurement of plankton in fish pond	03	10	--	30	40
	Technology of feed preparation	03	10	--	20	30
VI Plant Protection	Integrated Pest Management	03	10	--	30	40
	Integrated Disease Management	03	05	--	25	30
VII Crop Improvement						
	Seed production	03	10	--	30	40
	Integrated crop management	02	4	--	16	20
	Processing and storage	02	4	--	16	20
TOTAL		**56**	**136**	**--**	**599**	**735**
(B) RURAL YOUTH	Techniques of potato cultivation	02	05	--	20	25
	Seed production	02	05	--	25	30
	Production of organic inputs	01	4	--	16	20
	Planting material production	01	4	---	16	20
	Integrated Farming	03	05	--	25	30
	Integrated nutrient management	02	05	--	25	30
	Mushroom production technique	02	08	--	22	30
	Integrated Nutrient in vegetables	01	04	--	16	20
	Poultry production	05	04	--	16	20
	Scientific goatry production	05	04	--	16	20
	Care and management of milch cattle	02	04	--	16	20
	Nutrient Management in fruits	02	04	--	16	20
	Removal of water insect from fish pond	02	10	--	20	30
	Measurement of turbidity in fish pond	03	10	--	20	30
TOTAL		**33**	**76**	**--**	**269**	**345**
(C) EXTENSION PERSONNEL	Productivity enhancement in field crops	02	05	--	25	30
	Integrated Pest Management	02	05	--	20	25
	Mushroom production	01	04	--	16	20
	Seed production	02	05	--	20	25
	Integrated Nutrient management	02	10	--	20	30

	Plant propagation techniques	01	04	--	16	20
	Care and management of cucurbits crops	01	04	--	16	20
	Production of vegetable seedling	01	04	--	16	20
	Application of manure and fertilizer in mango orchard	01	04	-	16	20
	Nutrient Management in different vegetables	01	04	--	16	20
	Management in farm animal	02	05	--	20	25
	Livestock feed and fodder production	02	05	--	25	30
	Production and use of organic inputs	02	05	--	20	25
	Location and topography for new fish pond construction	03	05	--	20	25
TOTAL		**23**	**69**	**--**	**266**	**335**

(B) OFF Campus

Thematic Area	Duration	No. of Participants			
		SC	ST	Other	Total
(A) FARMERS & FARM WOMEN					
I Crop Production					
Improved agronomic technique of sugarcane and Ratoon production	02	08	--	32	40
Integrated Crop Management	01	05	--	25	30
Weed control of sugarcane	01	04	--	16	20
Scientific method and seed treatment of paddy	01	04	--	16	20
Scientific technique of paddy crop	01	04	--	16	20
Foliar application of zinc in paddy crop	01	04	--	16	20
Crop production technique of rabi pulses and oil seed crop	01	10	--	20	30
Agronomical practices of late sown paddy crop	01	04	--	16	20
Crop production technique of wheat	01	04	--	16	20
II Horticulture					
a) Vegetable Crops					
Nursery raising	02	04	--	16	20
Utilization of micronutrients in mango	02	04	--	16	20
Management of cucurbits cultivation	02	04	--	16	20
Razing of off season vegetable seedlings	02	04	--	16	20
Role of waste decomposer in vegetables	02	04	--	16	20
Establishment of new orchard	01	04	--	16	20
b) Fruits					

Training and Pruning	01	04	--	16	20
Layout and Management of Orchards	02	08	--	32	40
Care and management of orchard at the time of flowering and fruiting	01	04	--	16	20
Management of young plant/Orchard	02	08	--	32	40
c) Ornamental Plants					
Production and Management technology	02	05	--	25	30
d) Tuber crops					
Production and Management technology	01	04	--	16	20
e) Spices					
Production and Management technology	01	04	--	16	20
III Soil Health and Fertility Management					
Integrated Nutrient Management	01	05	--	20	25
Production and use of organic inputs	01	04	--	16	20
Micronutrient deficiency in crops	01	04	--	16	20
IV Livestock Production and Management					
Poultry Management	02	04	--	16	20
Disease Management	02	05	--	25	30
Feed management	02	05	--	20	25
Scientific goatery production	02	04	--	16	20
Fodder production	02	05	--	25	30
Feed management	01	03	--	27	30
V Fisheries					
Use of organic and inorganic manure in fish pond	02	05	--	25	30
Technique of fish harvesting	01	10	--	20	30
VI Plant Protection					
Integrated Pest Management	01	05	--	25	30
Integrated Disease Management	02	05	--	25	30
Bio-control of pests and diseases	01	04	--	16	20
VII Crop Improvement					
Seed production	02	10	--	30	40
Integrated Crop Management	02	05	--	20	25
TOTAL	**56**	**191**	**--**	**764**	**955**

Thematic Area	Duration	No. of Participants			
		SC	ST	Other	Total
(B) RURAL YOUTH					
Mushroom Production	03	05	-	25	30
Seed production	03	05	--	35	40
Production of organic inputs	03	04	--	16	20
Planting material production	03	04	--	16	20
Repair & maintenance of farm machinery & implement	03	04	--	16	20
Integrated Farming	03	05	--	20	25
Integrated nutrient management	01	05	--	25	30
Protected cultivation of vegetable crops	02	05	--	20	25
Techniques of potato cultivation	01	05	--	20	25
Scientific cultivation of papaya	01	10	--	20	30

Role of micro nutrient in vegetables	02	04	--	16	20
Vegetable cultivation by bio-process	01	04	--	16	20
Value addition	01	04	--	16	20
Sampling of soil for new fish pond construction	01	05	--	25	30
Clean milk production	02	05	--	20	25
TOTAL	**30**	**74**	**--**	**306**	**380**
(C) EXTENSION PERSONNEL					
Productivity enhancement in field crops	01	05	--	25	30
Integrated Pest Management	01	05	--	25	30
Mushroom production	01	04	--	16	20
Seed production	01	05	--	35	40
Methods and importance of vermin-compost	01	05	--	25	30
Nursery technique of paddy crop	01	04	---	26	30
Production technique of oil seed crop	01	05	--	35	40
Role of waste de composer in vegetable cultivation	01	04	--	16	20
Care and management of cucurbits crops	01	04	--	16	20
Production of vegetable seedling	01	04	--	16	20
Nutrient management in fruit plants	01	04	--	16	20
Management in farm animal	01	05	--	25	30
Livestock feed and fodder production	02	08	--	32	40
Production and use of organic inputs	02	05	--	25	30
Type of fish diseases and their control	01	05	--	20	25
Eradication of aquatic weed	02	05	--	25	30
TOTAL	**19**	**77**	**--**	**378**	**455**

D) Sponsored training

Thematic Area*	**Title**	**Duration**	**No. of participants**			
			SC	**ST**	**Others**	**Total**
Training	Farmers Scientist interaction	02	10	-	50	60
	Mushroom production	06	05	-	55	60
	Training on Animal health care	02	10	-	60	70
	Integrated Nutrient Management	02	20	-	40	60
	Integrated Pest Management	02	10	-	30	40
	Rejuvenation	02	10	-	40	50
	SRI Method	01	10	-	30	40
	Zero tillage	01	10	-	40	50
	Skill development training on Mushroom Grower	02	06	-	54	60
	Skill development training on Vermicompost Producer	02	08	-	52	60
	Skill development training on Organic Grower	01	02	-	28	30
	Skill development training on Poly house and shed net technician	01	03	-	27	30

E) **Vocational**

Crop / Enterprise	Identified Thrust Area	Training title	Duration (days)	Participants			
				SC	ST	Other	Total
Horticulture							
Vegetable nursery	Lack of improved variety	Growing vegetable nursery in low cost poly house	5	4	-	20	24
Off season vegetables	- do -	Off season cultivation of vegetables	5	4	-	20	24
Fruit trees	- do -	Rejuvenation of old orchard	5	4	-	20	24
Ornamentals	- do -	Role of different nutrient in vegetables	5	4	-	20	24
Plant Protection							
Mushroom	Employment Generation	Mushroom production technology	5	4	-	20	24
Mushroom	- do -	Mushroom production technology	5	4	-	20	24
Mushroom	- do -	Mushroom production technology	5	4	-	20	24
Crop Improvement							
Wheat	Poor seed replacement	Seed production technology of wheat	5	4	-	20	24
Wheat	Seed production	Seed production technology of sugarcane	2	4	-	20	22
Pulses	- do -	Seed production techniques of pulses	5	4	-	20	24
Paddy	- do -	Seed production techniques of paddy	5	4	-	20	24
Oilseed	- do -	Seed production techniques of oilseed	5	4	-	20	24
Crop Production							
Potato	Seed replacement	Seed production technology of potato	6	4	-	20	24
Organic manure	Low use of organic manure	NADEP and Vermi-composting	6	4	-	20	24
Equipment	Lack of knowledge	Repair and maintenance of irrigation equipment	6	4	-	20	24
Crop diversification	- do -	Diversification in agriculture	6	4	-	20	24
Livestock Production and Management							
Dairy	Inappropriate management	Dairy farming management	6	4	-	20	24
Dairy	- do -	Balance ration formulation for milch animal	6	4	-	20	24
Poultry	- do -	Poultry farming management	6	4	-	20	24
Dairy	- do -	Integrated live stock management	6	4	-	20	24

4.) Front Line Demonstration

FLD – 1

Title	:	Popularization for application of Zinc, Boron & Planofix for better production in Litchi
Problem diagnose	:	Fruit dropping and fruit cracking
Objects	:	i) To increase good production
		ii) To minimize fruit dropping
Year of commencement	:	2019-20
Observation to be taken	:	i) Yield
	:	ii) Percentage of fruit dropping
	:	iii) Net return
	:	iv) B:C ratio
No. of Farmers	:	10
Area	:	5.0 ha.
Critical input demonstration	:	Zinc, Boron & Planofix Zinc sulphate : 2 gram/lt. (30 days before flowering) Boric acid : 4gram/lt. (15 days after fruit setting) Planofix : 1 ml/4.5 lt. (7 days after fruit setting)

FLD – 2

Title	:	Application of NAA/planofix to control fruit dropping
Problem diagnose	:	Heavy fruit dropping
Objects	:	i) To increase productivity
		ii) To minimize fruit dropping
Year of commencement	:	2019-20
Observation to be taken	:	i) Percentage of fruit dropping
	:	ii) Fruit quality
	:	iii) Yield
	:	iv) B:C ratio
No. of Farmers	:	10
Area (in ha)	:	5.0
Critical input of demonstration	:	Planofix (@ 1ml/4.5 lit of water, one spray)

FLD - 3

Title	:	Popularization of improved varieties of Tomato
Problem diagnose	:	Lower production
Objects	:	i) To increase good production
	:	ii) To minimize cost of cultivation
Year of commencement	:	2019-20
Observation to be taken	:	i) Yield
	:	ii) Net return
	:	iii) B:C ratio
No. of Farmers	:	20
Area	:	3.0 ha.
Critical input demonstration	:	Seed of variety Avinash-3, 250 gm/ha.

FLD - 4

Title	:	Popularization of Oyster Mushroom
Problem diagnose	:	Lack of awareness about mushroom cultivation
Objects	:	i) To insure the nutritional security
	:	ii) To increase the income of farming community
Year of commencement	:	2019-20
Observation to be taken	:	i) Yield
	:	ii) Net return
	:	iii) B:C ratio
No. of Farmers	:	50
Area	:	50 unit
Critical input demonstration	:	Spawn @ 1 kg/ 10 kg straw

FLD – 5

Title	:	Popularization of HD-3118
Problem diagnose	:	Lower productivity of wheat in late sown condition
Objects	:	i) To increase the production of wheat variety
Year of commencement	:	2019-20
Observation to be taken	:	i) Cost of cultivation
	:	ii) Yield
	:	iii) B:C ratio
No. of Farmers	:	20
Area	:	2.0 ha.
Critical input demonstration	:	Seed (125 kg/ha)

FLD – 6

Title	**:**	**Prevention of PPR (Pests Des Petits Ruminants) in Goats**
Problem diagnose	:	To prevent mortality in Goats
Objects	:	To decrease the chances of PPR prevalence in Goats
Year of commencement	:	2019-20
Observation to be taken	:	i) Health management
	:	ii) Body weight gain
	:	iii) B:C ratio
No. of Farmers	:	400
Area (ha)	:	1200
Critical input demonstration	:	PPR vaccine @ 1 ml/sc

FLD – 7

Title	**:**	**Use of utrine tonic after parturition in Buffalo**
Problem diagnose	:	To prevent uterine infection in Buffalo after parturition
Objective	:	i) To increase milk production and reproductive performance
Year of commencement	:	2019-20
Observation to be taken	:	i) Reproduction performance
	:	ii) Milk production
	:	iii) B:C ratio
No. of Farmers	:	100
No. of Buffalo	:	200
Critical input demonstration	:	Uterine tonic (Himrop) @ 100 ml B.D. for 10 days

FLD – 8

Title	:	Management of pH in carp culture pond
Problem diagnose	:	Fluctuation of pH in culture pond
Objective	:	i) Improve water pH ii) Improve fish health iii) Enhance productivity
Year of commencement	:	2019-20
Observation to be taken	:	i) Fish health
	:	ii) Yield
	:	iii) B:C ratio
No. of Farmers	:	10
No. of area	:	5 ha.
Critical input demonstration	:	Lime and Alum

FLD – 9

Title	:	Popularization of Swarna Sub-1
Problem diagnose	:	Lower production
Objects	:	i) To increase the production of low land rice variety
Year of commencement	:	2019-20
Observation to be taken	:	i) Cost of cultivation
	:	ii) Yield
	:	iii) B:C ratio
No. of Farmers	:	20
Area	:	2.0 ha.
Critical input demonstration	:	Seed (30 kg/ha)

5) Seed and planting material production

Seed		**Planting material**	
Crop	**Area**	**Crop**	**No.**
Paddy	2.0 ha	Vegetables	10000
Wheat	2.0 ha	Fruits	5000

6) Extension Activities

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	300	100	400	10	05	15	310	105	415
Kisan Mela	01	--	--	--	--	--	--	--	--	800
Kisan Ghosthi	10	300	50	350	45	05	50	345	55	400
Exhibition	05	100	50	150	25	10	35	125	60	185
Film Show	02	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Method Demonstrations	05	300	10	310	20	05	25	320	15	335
Farmers Seminar	04	350	20	370	20	05	25	370	25	395
Workshop	05	400	50	450	80	20	100	480	70	550
Group meetings	05	350	50	400	40	05	45	390	55	445
Lectures delivered as resource persons	20	800	40	840	60	20	80	860	60	920
Newspaper coverage	25	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Radio talks	06	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
TV talks	06	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Popular articles	09	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Extension literature	06	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Scientific visit to farmers field	700	4200	350	4550	--	--	--	4200	350	4550
Farmers visit to KVK	--	--	--	--	--	--	--	--	--	4000
Diagnostic visits	10	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Exposure visits	10	350	75	425	60	15	75	410	90	500
Ex-trainees Sammelan	05	70	10	80	10	10	20	80	20	100
Animal Health Camp	05	800	250	1050	200	50	250	1000	300	1300
Soil test campaigns	10	450	150	600	80	20	100	530	170	700
Farm Science Club Conveners meet	05	80	20	100	--	--	--	80	20	100
Self Help Group Conveners meetings	05	120	30	150	--	--	--	120	30	150
Mahila Mandals Conveners meetings	05	--	50	50	--	--	--	00	50	50
Celebration of important days	04	480	60	540	50	10	60	530	70	600
Kisan Ghosthi organized by other department & participated by KVK	10	220	35	255	150	20	170	370	55	425
Technological week	10	400	200	600	100	20	120	500	220	720

7) Revolving Fund

Year	Opening Balance	Expen diture	Income	Total Balance Amount
2013-14	2,68,176.00	2,74,250.00	1,74,802.00	1,68,728.00
2014-15	1,68,728.00	3,33,000.00	4,78,061.00	3,13,789.00
2015-16	3,13.789.00	3,12,060.00	3,32,803.00	3,34,532.00
2016-17	3,34,532.00	2,64,539.00	2,21,274.00	2,91,267.00
2017-18	2,91,267.00	5,30,143.66	5,40,663.00	3,01,786.34
2018-19	3,01,786.34	9,75,731.60	1,038,977.00	3,65,031.74
April, 2019	3,65,031.74			

8) Expected fund utilization

Project	Source	Amount to be received (Rs. in lakh)
Training	ATMA, Sitamarhi	50,000.00
Exposure	ATMA, Sitamarhi	1,00,000.00
Demonstration	ATMA, Sitamarhi	50,000.00
Short term research	ATMA, Sitamarhi	50,000.00
Farmers Scientist Interaction	ATMA, Sitamarhi	50,000.00
Skill development programme	BAMETI, Patna	24,00,000.00

9) On-farm trials to be conducted

OFT - 1

Crop/Enterprises	:	Kisan Mobile Advisory Services
Title	:	Assessment of "Kisan Mobile Advisory Services" for dissemination of agricultural technology
Problem diagnose		Non availability of technical knowledge at critical time
Farming situation	:	-
Production system and thematic area		Information and Communication Technology (ICT)
Year of commencement	:	2019-20
Experimental details	:	**T.O-1:** Farmer practices – Existing System for transfer of technology
	:	**T.O-2 :** Kisan Mobile Advisory sent to 100 farmers @ 2 messages per week
	:	**T.O-3-:** Message delivered by private firms as NGOs
Source of technology	:	KVK, Harda (M.P)
Observation to be taken	:	i) Need & time based information ii) Understanding of the message iii) Applicability of the message
No. of Farmers	:	100
Area (in ha)	:	-

OFT – 2

Crop/Enterprises	:	Farmers Interest Group (FIG)
Title	:	**Demonstration farmers work efficiency through "Farmers Interest Group (FIG)"**
Problem diagnose		Farmers are not united for their common interest
Farming situation	:	-
Production system and thematic area		-
Year of commencement	:	2019-20
Experimental details	:	**T.O-1:** Farmer practices – Individual approach (Non selected village)
	:	**T.O-2 :** Group approach (Selected village)
Source of technology	:	MYRADA, Banglore, TNAU
Observation to be taken	:	i) No. of technology adopted
	:	ii) Net increase in annual income
No. of Farmers	:	No. of Group : 04 No. of Technology : 02
Area (in ha)	:	-

OFT - 3

Crop/Enterprises	:	Onion
Title	:	Assessment of different weedicides in Onion for control weeds in Rabi season
Problem diagnose		Heavy infestation of weed in Rabi season
Farming situation	:	Irrigated
Production system and thematic area		Rice- Onion, weed control
Year of commencement	:	2019-20
Experimental details	:	**Farmers practices :** Hand weeding (18-20 days & 35-40 days)
	:	**TO-1 :** Pendimethalin 3ml/lit. (3 DAT)
	:	**TO-2 :** Oxygold (Oxyfluorfen 1ml/lit.) 3 DAT
Source of technology	:	BAU, Sabour, Bhagalpur
Observation to be taken	:	i) Weed infestation percentage
	:	ii) Plant growth
	:	iii) B:C ratio
No. of Farmers	:	05
Area (in ha)	:	1.0

OFT – 4

Crop/Enterprises	:	Tomato
Title	:	Assessment of leaf curl resistant varieties of Tomato
Problem diagnose	:	Heavy infestation of leaf curl in Tomato
Farming situation	:	Irrigated
Production system and thematic area	:	Paddy – Tomato
Year of commencement	:	2019-20
Experimental details	:	**Farmers practices :** Avinash- 3
	:	**TO-1 :** Arka Anaya
	:	**TO-2 :** Arka Rakshak
Source of technology	:	IIHR, Banglore
Observation to be taken	:	i) Percentage in leaf curl infestation
	:	ii) Plant height
	:	iii) B.C ratio
No. of Farmers	:	08
Area (ha)	:	1.0

OFT – 5

Crop/Enterprise	:	Sugarcane
Title	:	Assessment of different formulation of herbicides for broad spectrum control of weeds specially motha in Sugarcane
Problem diagnose	:	Low productivity of Sugarcane due to weed infestation
Farming situation	:	Irrigated
Production system & thematic area	:	Rice – Sugarcane
Year of commencement	:	2019-20
Experimental details		**Farmers practice :** Atrazine 50% @ 1.5kg a.i/ha. Pre emergence
	:	**TO-1 : <u>Atrazin 50%@1.5kg</u> a.i/ha**+Halosulfuran 75% @ 90gm a.i/ha at 60DAS
	:	**TO-2 : <u>Atrazin 50%@1.5kg</u> a.i/ha +** Halosulfuran 75% @ 90gm/ha+ Metribuzine @ 1lit./ha at 60 DAS
		TO-3 : <u>Atrazin 50%@1.5kg</u> a.i/ha + Metribuzine @ 1lit./ha + 2-4D @ 1 lit./ha. at 60 DAS
Source of technology	:	Dr. RPCAU, Pusa, Samastipur
Critical inputs	:	Atrazin 50%, Halosulfuran 75%, Metribuzine 70% and 2-4D amine salt 58%
Observation to be taken	:	i) Technical : Panicles/hill, plant height , no of grains/panicle
	:	ii) Economics : B:C Ratio & Yield
	:	iii) Harvest index
No. of Farmers	:	10
Area (in ha)	:	1.0

OFT – 6

Crop/Enterprise	:	Wheat
Title	:	Assessment of bio-fertilizer and their mode of application for sustaining Wheat productivity
Problem diagnose	:	Low productivity of Wheat due to imbalance used of fertilizer
Farming situation	:	Irrigated
Production system & thematic area	:	Rice – wheat
Year of commencement	:	2019-20
Experimental details	:	**Farmers practice :** Use of NPK @ 100:30:20:
	:	**TO-1 :** RDF (120:60:40)
	:	**TO-2:** RDF (120:60:40)+ Seed treatment with liquid bio fertilizer (Azotobactor and PSB)
	:	**TO-3:** RDF (120:60:40)+Soil application of carrier based bio fertilizer Azotobactor and PSB @ 5kg/ha each
Source of technology	:	Dr. RPCAU, Pusa, Samastipur
Critical inputs	:	Azotobactor and PSB
Observation to be taken	:	i) No. of plants/m^2 ii) Plant height iii) Yield
No. of Farmers	:	10
Area (in ha)	:	2.0

OFT - 7

Crop/Enterprise	:	Buffalo
Title	:	Effect of mineral and vitamin supplementation on Buffalo milk production in summers (Heat stress)
Problem diagnose	:	Low milk production in summer due to heat stress
Farming situation	:	Integrated crop livestock farming system
Production system & thematic area	:	Live stock production and Management
Year of commencement	:	2019-20
Experimental details	:	**T.O-1:** Farmer practices – Grazing + stall feeding
	:	**T.O-2 :** Use of Liver tonic (@ 50ml/day for 20 days) + vitamin AD3 @20ml/days 60 days)
	:	**T.O-3 :** Herbal antistress drug @ 50 ml for 30 days+ mineral mixture @ 35 gm/day for 60 days)
Source of technology	:	WBUAFS, Kolkata
Critical inputs	:	Liver tonic, Vitamin AD3, Antistress drug and Mineral Mixture
Observation to be taken	:	i) Technical : Feed intake
	:	ii) Economics : Milk production
No. of Buffalo	:	10

OFT - 8

Crop/Enterprise	:	Cattle
Title	:	Assessment the efficacy of different drug combination against Mastitis in cattle
Problem diagnose	:	Low milk production due to infection of teat
Farming situation	:	Integrated crop livestock farming system
Production system & thematic area	:	Live stock production and Management
Year of commencement	:	2019-20
Experimental details	:	**Farmer practices** : Topical herbal gel used
	:	**T.O-1 :** Intramammary infusion (Mammitel 10 gm for 3 days) +topical herbal gel
	:	**T.O-2-:** Parentral antibiotic (Amoxycillin+Sulbactum @ of 3gm. I/M for 3 days + Intramammary infusion (Memmitel 10 gm for 3 days)+Mastilep
Source of technology	:	WBUAFS, Kolkata
Critical inputs	:	Topical herbal gel, Mammitel & Antibiotic
Observation to be taken	:	i) Technical : Udder health
	:	ii) Economics : Milk production
No. of Buffalo	:	10

OFT – 9

Crop/Enterprises	:	Fish culture
Title	:	Assessment of water probiotics in fish farming pond
Problem diagnose		Low productivity of the fish pond due to poor water quality
Farming situation	:	Composite fish culture
Production system and thematic area		Fish production
Year of commencement	:	2019-20
Experimental details	:	**Farmer Practices :** No use of water probiotics
	:	**TO-1 :** F. P. + water probiotics @ 1kg/ha (split dose of 250 gm/month)
	:	**TO-2 :** F. P. + water probiotics @ 2 kg/ha (in split dose of 500 gm/ha/month)
Source of technology	:	CIFA, Bhubaneswar
Observation to be taken	:	i) Fish Production
	:	ii) Production performance
	:	iii) B:C ratio
No. of Farmers	:	10
Area (in ha)	:	1.0

10) List of Projects to be implemented

Project	Source	Amount to be received (Rs. in lakh)
Training	ATMA, Sitamarhi	50,000.00
Exposure	District Horticulture Office, Sitamarhi	2,00,000.00
Demonstration	ATMA, Sitamarhi	50,000.00
Short term research	ATMA, Sitamarhi	50,000.00
Farmers Scientist Interaction	ATMA, Sitamarhi	50,000.00
Skill development programme	BAMETI, Patna	24,00,000.00

11) No. of success stories to be developed : 01

12) Scientific Advisory Committee

Date of SAC meeting held during 2018-19	Proposed date
26.07.2018	25.07.2019

13) Soil and water testing

	No. of samples to be analyzed
Soil	1250
Plant	-
Manure	-

14) Staff position

Sanctioned	In position	If vacant, since when
Senior Scientist and Head	Vacant	12.5.2012
SMS	Dr. Ram Eshwar Prasad (Ag. Extension)	
SMS	Vacant (Plant Protection)	10.08.2015
SMS	Dr. Kinkar Kumar (Vet. Science)	
SMS	Mr. Manohar Panjikar (Horticulture)	
SMS	Mr. Sachchidanand Prasad (Agronomy)	
SMS	Vacant	
Prog. Asstt. (Computer)	Mr. Rakesh Kumar	
Farm Manager	Mr. Gunjesh Kumar Navin	
Programme Asstt. (Fisheries)	Mr. Prakash Chandra	
Office Suptd-cum-Acctt.	Mr. Brij Bhushan Mishra	
Jr. Stenographer	Mr. Sikandar Roy	
Driver	Mr. Raju Kumar	
Driver	Mr. Ajay Kumar	
Supporting Staff	Contractual	
Supporting Staff	Contractual	

15) Status of infrastructure

Infrastructure	Complete	Under construction	Not started	Reasons, if not started
Administrative building	Complete	-	-	-
Trainees' hostel	Complete	-	-	-
Staff quarter	Complete	-	-	-
Demonstrations: i) Goatry ii)Hatchery	Complete	-	-	-

16) Every KVK should bring a brief write-up supported by quality photographs about the technology having wide acceptability among the farming community of the district with factual data.

Sl. No.	Name of the Technology	Brief Details of Technology (3-5 bullet points)	Net Return to the farmer (Rs.) per annum due to the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1.	Application of Acctamipid to control leaf curl in Tomato	i) Infestation of leaf curl in Tomato was found only 5-10% ii) Production was observed ave. 425q/ha iii) B.C ratio 3.05	Rs. 1,25,500/ha/annum	Approx 6,000 farmers	
2.	Application of Boron in Cauliflower	i) Pod column was found attractive ii) Price of Cauliflower 2 times more iii) B.C ratio-1.62	Rs. 75,000/ha/annum	Approx 3,000 farmers	
3.	Application of staking system in Tomato	i) No. of fruits was found two times more than traditional method ii) Quality of fruit was found better iii) Market rate of Tomato was found 2 times	Rs. 1,32,300/ha/annum	Approx 2000 farmers	
4.	Popularization of Oyster Mushroom cultivation	i) Additional source of income ii) Improvement of Health Status iii) Good employment opportunities among women	Rs. 60,000/ha/annum	Approx 2000 farmers	

5.	Cultivation of bacterial wilt resistant varieties of Brinjal- Var. Swarn Shakti	i) Oly 15% wilt infestation was found in Swarn Shakti ii) 65q/ha yield increased average farmers production iii) B.C ratio- 2.95	Rs. 65,500/ha/annum	Approx 5,000 farmers	
6.	Uses of concentrate mineral mixture & Vitamin supplement for increasing the body weight in goat.	i)4 kg body weight increased by using of selected technologies in compare with farmers practices. ii)B.C ratio 2.81 found in selected technologies. iii)Healthy progeny produced by using this technologies.	Rs. 16,000/annum @ 10 goat	1100 (approx.)	
7.	Application of Amoxycillin + sulbactum @ of 3 gm I/M for 3 days + use of Mastilep gel for controlling mastitis in milch Cow	i) By using this technology 100% control of mastitis observed in farmers practices only 30% result observed. ii) 630 liter milk production increased over farmer practice during lactation period each Cow.	Rs. 20,160/annum/ Milch Cow	2200 (approx.)	
8.	Application of of Iron bolus (Feritas) in milch Buffalo	i)Enhance the nutrient level in body of milch Cattle. ii)16.75% milk production increased over farmers practices iii)280 liter milk production increased in each Buffalo	Rs. 8,960/cattle/annum	4300 (approx.)	
9.	Use of 35 gm Mineral mixture and vitamin supplement in Buffalo for enhancing milk production.	i)By using this technology 3.5 lit./day milk production increased and reproductive performance enhanced. ii)30% concepitation rate increased in selected technology over the farmers practices	Rs. 25,725/cattle/ lactation	5000 (approx.)	
11.	Application of Anti stress @ 10 ml/100 bird.	i)12% body weight gain in boiler poultry with compare to local check. ii)Mortality and morbidity rate decreased. iii)7830 Rs. Income increased over farmer practices with capacity of 5000 boiler poultry.	Rs. 46,980/farmer/ annum with 5000 bird capacity	300 (approx.)	

12.	Application of lime@ 200kg / ha. in fish pond for enhancing fish productivity.	i)Application of lime in fish pond @ 200kg/ha if water pH is 7. ii)It improve water pH & increase alkalinity. iii)Control fish parasites & diseases. iv)It reduces turbidity in this reason increase fish production. v)Production were 19 qt./ha in demonstration pond and 11.55 qt/ha in check	Rs. 82,960/ha/annum	150 (approx.)	
13.	Cultivation of variety HD-2967 in timely sown condition	i)No. of tillers/m2 at harvesting stage was obtained in HD- 2967 variety (285) compare to farmers practices UP-262 variety (208) ii)8 q/ha increasing over the farmers practise iii)B.C ratio was 2.40 of HD-2967 variety	Rs. 40,000/ha	50,000 (approx.)	
14.	Cultivation of wheat variety HI- 1563 by Zero tillage method.	i)Under line sowing method of establishment we get more productivity per ha. Of Wheat while farm zero tillage technique we get more profitability due to low cost of cultivation in comparison to line sowing method. ii)B.C ratio was 2.44 in zero tillage and B.C ratio was highest in Hi- 1563 (2.48)	Rs. 33,700/ha	20000 (approx.)	
15.	Cultivation of variety Swarna Sub -1 of paddy under sub merge condition.	i)No. of tillers/m2 at harvest was manimum in Swarna Sub-1 (550) compare to farmers practice Katma variety (250) ii)Rs. 31200/ha net return increasing over the farmer practices iii)B.C ratio was 2.33 of Swarna Sub-1	Rs. 32,670/ha/annum	30000 (approx.)	
16.	Application of Pendimethalin + Imazathapyr herbicide for weed management in lentil	i)No. of weed at maturity was found 10 in pendimethalin 1 lit/ha + Imazathapyr 40 gm/ha compare to farmer practices no weed (42) ii)Rs. 11770/ha net return increasing over the farmer practices iii)B.C ratio was 2.11 of Pendimethalin + Imazathpyr	Rs. 26,5 20/ha/annum	2000 (approx.)