Annual Action Plan

(April 2019 - March 2020)

Krishi Vigyan Kendra Manpur, Gaya

Directorate of Extension Education

Bihar Agricultural University, Sabour Bhagalpur

ACTION PLAN 2019-2020

1. Name of the KVK: KRISHI VIGYAN KENDRA, MANPUR, GAYA

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2.Name of host organization : B. A. U., SABOUR, BHAGALPUR, BIHAR

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3.Training programme to be organized (April 2019 to March 2020)

(a) Farmers and farmwomen

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Crop Production														
Soil fertility	Method of soil sampling	1	1	On/Off	April,2019	5	1	0	0	15	1	20	2	22
Nursery Management	Methods of nursery raising of rice	1	1	On/Off	May 2019	5	1	0	0	15	1	20	2	22
RCT	Cultivation Technique of Direct Seeded Rice	1	1	On/Off	June 2019	5	1	0	0	15	1	20	2	22
Crop Production	Cultivation technique of pigeon pea	1	1	On/Off	June 2019	5	1	0	0	15	1	20	2	22
Crop production	Cultivation technique of maize	1	1	On/Off	July 2019	5	1	0	0	15	1	20	2	22
Production of organic inputs	Management of vermicompost unit in rainy season	1	1	On/Off	July 2019	5	1	0	0	15	1	20	2	22
IWM	Integrated weed management in paddy	1	1	On/Off	Aug. 2019	5	1	0	0	15	1	20	2	22
INM	Integrated nutrient management in paddy	1	1	On/Off	Sep 2019	5	1	0	0	15	1	20	2	22
Crop production	Cultivation technique of wheat	1	1	On/Off	Oct 2019	5	1	0	0	15	1	20	2	22
Crop production	Cultivation technique of rapeseed and ustard	1	1	On/Off	Oct 2019	5	1	0	0	15	1	20	2	22
Crop production	Cultivation technique of Lentil	1	1	On/Off	Nov 2019	5	1	0	0	15	1	20	2	22
IWM	Integrated weed management in wheat	1	1	On/Off	Dec 2019	5	1	0	0	15	1	20	2	22

INM	Integrated nutrient management in wheat	1	1	On/Off	Jan 2020	5	1	0	0	15	1	20	2	22
Crop production	Cultivation technique of summer moong.	1	1	On/Off	Feb 2020	5	1	0	0	15	1	20	2	22
Crop production	Cultivation technique of Summer maize	1	1	On/Off	March 2020	5	1	0	0	15	1	20	2	22
	Total	**15**	**15**			**75**	**15**	**0**	**0**	**225**	**15**	**300**	**30**	**330**
Extension Education														
Entrepreneurial development	Increasing income of farmers through vermi-composting	2	1	OFF	22.05.19/ 29.05.19	2	2	0	0	32	4	34	6	40
Entrepreneurial development	Upliftment of socio-economic condition through beekeeping	2	1	OFF	12.06.19/ 19.06.19	2	2	0	0	32	4	34	6	40
Entrepreneurial development	Entrepreneurship development in mushroom production	2	1	OFF	10.07.19/ 24.07.19	2	2	0	0	32	4	34	6	40
Group dynamics	Farmers group as the means of socio-economic upliftment of farmers & farm women	2	1	OFF	07.08.19/ 14.08.19	2	2	0	0	32	4	34	6	40
Group dynamics	Farmers field school is the need of the time for changing behavioural component of the farmers	2	1	OFF	04.09.19/ 12.09.19	2	2	0	0	32	4	34	6	40
Information networking	Use of ICT in agriculture for increasing yield	2	1	OFF	11.10.19/ 17.10.19	2	2	0	0	32	4	34	6	40
Information networking	availability of markets for sale of their produce	2	1	OFF	11.04.19/ 25.04.19	2	2	0	0	32	4	34	6	40
Organic farming	Organic farming is the need of the time for farmers	2	1	OFF	06.11.19/ 20.11.19	2	2	0	0	32	4	34	6	40
Formation and management of SHGs	Socio-economic upliftment of farmers/farm women by means of SHGs.	2	1	OFF	04.12.19/ 11.12.19	2	2	0	0	32	4	34	6	40
Formation and management of SHGs	Importance of SHGs in increasing income of farmers/farm women	2	1	OFF	08.01.20/ 22.01.20	2	2	0	0	32	4	34	6	40
Capacity building	Increasing knowledge in	2	1	OFF	05.02.20/ 12.02.20	2	2	0	0	32	4	34	6	40

	vegetable seed production													
Capacity building	Increasing knowledge for cultivation of high value crops	2	1	OFF	04.03.20/ 18.03.20	2	2	0	0	32	4	34	6	40
	Total	**24**	**12**			**24**	**24**	**0**	**0**	**384**	**48**	**408**	**72**	**480**
Veterinary Science														
Goat farming	Small scale goat farming	2	1	ON/ OFF	25.04.19/ 17.10.19	8	6	0	0	20	6	28	12	40
Feed Management	Treatment of straw with urea	2	1	ON/ OFF	22.05.19/ 6.11.19	8	6	0	0	20	6	28	12	40
Dairy Management	Clean milk production	2	1	ON/ OFF	12.09.19	8	6	0	0	20	6	28	12	40
Disease Management	Management of HS & BQ in dairy animals	2	1	ON/ OFF	29.05.19/ 12.06.19	8	6	0	0	20	6	28	12	40
Poultry Management	Income generation through backyard poultry	2	1	ON/ OFF	19.06.19/ 11.12.19	8	6	0	0	20	6	28	12	40
Disease Management	Management of infertility in dairy animals	2	1	ON/ OFF	10.07.19/ 08.1.20	8	6	0	0	20	6	28	12	40
Feed Management	Method of calculation of balanced ration in dairy animals	2	1	ON/ OFF	29.07.19/ 22.01.20	8	6	0	0	20	6	28	12	40
Poultry Management	Management of commercial broiler	2	1	ON/ OFF	07.08.19/ 05.02.20	8	6	0	0	20	6	28	12	40
Disease Management	Vaccination in cattle in poultry	2	1	ON/ OFF	14.08.19/ 12.02.20	8	6	0	0	20	6	28	12	40
Feed Management	Fodder production round the year	2	1	ON/ OFF	04.09.19/ 04.03.20	8	6	0	0	20	6	28	12	40
Disease Management	Management & vaccination of FMD in dairy animals	2	1	ON/ OFF	20.11.19/ 4.12.19	8	6	0	0	20	6	28	12	40
Disease Management	Management of common diseases of goat	2	1	ON/ OFF	11.10.19/ 18.03.20	8	6	0	0	20	6	28	12	40
	Total	**24**	**12**			**96**	**72**	**0**	**0**	**240**	**72**	**336**	**144**	**480**

(b) Rural youths

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Crop Production														
Seed Production	Seed Production Technology in rice	1	4	ON	July 2019	5	1	0	0	15	1	20	2	22
Production of Organic Inputs	Methods of vermicompost production	1	4	ON	August 2019	5	1	0	0	15	1	20	2	22
Integrated Farming	Cultivation of aromatic and medicinal Plant	1	4	ON	Sept 2019	5	1	0	0	15	1	20	2	22
Seed Production	Seed Production Technology in Wheat	1	4	ON	Nov 2019	5	1	0	0	15	1	20	2	22
Production of Organic Inputs	Production techniques and uses of vermicomposting	1	4	ON	Dec 2019	5	1	0	0	15	1	20	2	22
	Total	**5**	**20**			**25**	**5**	**0**	**0**	**75**	**5**	**100**	**10**	**110**
Extension Education														
Entrepreneurship development	Increasing income by means of mushroom production & its value addition	2	5	ON	15-20.07.19 21-26.07.19	4	0	0	0	32	4	36	4	40
Beekeeping	Beekeeping as the means of developing entrepreneurship in agriculture	1	5	ON	25-29.06.19	2	0	0	0	16	2	18	2	20
Vermi-culture	Vermicomposting as the means of self employement	1	5	ON	3-7.02.20	2	0	0	0	16	2	18	2	20
	Total	**4**	**15**			**8**	**0**	**0**	**0**	**64**	**8**	**72**	**8**	**80**
Veterinary Science														
Dairying	Dairy Management	2	5	ON	26-30 Aug. 19, 23-27 Mar 19	8	6	0	0	20	6	28	12	40
Goat rearing	Goat Management	2	4	ON	24-27 Jun 19 24-27 Feb 20	8	6	0	0	20	6	28	12	40
	Total	**4**	**9**			**16**	**12**	**0**	**0**	**40**	**12**	**56**	**24**	**80**

(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Crop Production														
Integrated Nutrient Management	INM for sustainable paddy production	1	1	Off	May 2019	5	1	-	-	15	1	20	2	22
Productivity enhancement in field crops	Integrated Weed Management in Rabi crops	1	1	Off	Oct 2019	5	1	-	-	15	1	20	2	22
Productivity enhancement in field crops	Advances in Rabi crops	1	1	Off	Jan 2020	5	1	-	-	15	1	20	2	22
Production and use of organic inputs	Production of vermicompost	1	1	Off	Feb 2020	5	1	-	-	15	1	20	2	22
	Total	4	4			**20**	**4**	**24**	**-**	**60**	**4**	**80**	**8**	**88**
Extension Education														
Entrepreneurship development	Doubling income by means of mushroom production	1	2	ON	15-16.01.20	3	2	0	0	18	2	21	4	25
Veterinary Science														
Dairying	Scientific management of dairy animals	1	1	ON/OFF	18 Dec, 19	3	5	0	0	5	7	8	12	20

Abstract of Training: Consolidated table (ON and OFF Campus)

Farmers and Farm women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	2	30	2	32	10	2	12	0	0	0	40	4	44
Resource Conservation Technologies	1	15	1	16	5	1	6	0	0	0	20	2	22
Cropping Systems	7	105	7	112	35	7	42	0	0	0	140	14	154
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management	1	15	1	16	5	1	6	0	0	0	20	2	22
Integrated Crop Management	2	30	2	32	10	2	12	0	0	0	40	4	44
Fodder production													
Production of organic inputs	1	15	1	16	5	1	6	0	0	0	20	2	22
Others, (cultivation of crops) Soil Fertility	1	15	1	16	5	1	6	0	0	0	20	2	22
TOTAL	**15**	**225**	**15**	**240**	**75**	**15**	**90**	**0**	**0**	**0**	**300**	**30**	**330**
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
TOTAL													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
TOTAL													
c) Ornamental Plants													
Nursery Management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
TOTAL													
IV. Livestock Production and Management													
Dairy Management	2	20	6	26	8	6	14	0	0	0	28	12	40
Poultry Management	4	40	12	52	16	12	28	0	0	0	56	24	80
Piggery Management													
Rabbit Management													
Disease Management	10	100	30	130	40	30	70	0	0	0	140	60	200
Feed management	6	60	18	78	24	18	42	0	0	0	84	36	120
Production of quality animal products													
Others, if any (Goat farming)	2	20	6	26	8	6	14	0	0	0	28	12	40
TOTAL	**24**	**240**	**72**	**312**	**96**	**72**	**168**	**0**	**0**	**0**	**336**	**144**	**480**

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
TOTAL													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
TOTAL													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
TOTAL													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics	4	64	8	72	4	4	8	0	0	0	68	12	80
Formation and Management of SHGs	4	64	8	72	4	4	8	0	0	0	68	12	80
Mobilization of social capital													
Entrepreneurial development of farmers/youths	6	96	12	108	6	6	12	0	0	0	102	18	120
WTO and IPR issues													
Others, if any													
Capacity Building	4	64	8	72	4	4	8	0	0	0	68	12	80
Information Networking	4	64	8	72	4	4	8	0	0	0	68	12	80
Organic Farming	2	32	4	36	2	2	4	0	0	0	34	6	40
TOTAL	**24**	**384**	**48**	**432**	**24**	**24**	**48**	**0**	**0**	**0**	**408**	**72**	**480**
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL	**63**	**849**	**135**	**984**	**195**	**111**	**306**	**0**	**0**	**0**	**1044**	**246**	**1290**

Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping	1	16	2	18	2	0	2	0	0	0	18	2	20
Integrated farming	1	15	1	16	5	1	6	0	0	0	20	2	22
Seed production	2	30	2	32	10	2	12	0	0	0	40	2	42
Production of organic inputs	2	30	2	32	10	2	12	0	0	0	40	2	42
Planting material production													
Vermi-culture	1	16	2	18	2	0	2	0	0	0	18	2	20
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying	2	20	6	26	8	6	14	0	0	0	28	12	40
Sheep and goat rearing	2	20	6	26	8	6	14	0	0	0	28	12	40
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development	2	32	4	36	4	0	4	0	0	0	36	4	40
Others if any (ICT application in agriculture)													
TOTAL	**13**	**179**	**25**	**204**	**49**	**17**	**66**	**0**	**0**	**0**	**228**	**38**	**266**

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	2	30	2	32	10	2	12	0	0	0	40	4	44
Integrated Pest Management	1	15	1	16	5	1	6	0	0	0	20	2	22
Integrated Nutrient management	1	15	1	16	5	1	6	0	0	0	20	2	22
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals	1	5	7	12	3	5	8	0	0	0	8	12	20
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs	1	15	1	16	5	1	6	0	0	0	20	2	22
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
Entrepreneurship Development	1	18	2	20	3	2	5	0	0	0	21	4	25
TOTAL	**7**	**98**	**14**	**112**	**31**	**12**	**43**	**0**	**0**	**0**	**129**	**26**	**155**

4. Frontline demonstration to be conducted*

FLD: 1

Crop: Paddy Var. R. Shweta
Thrust Area: Transplanting
Thematic Area: RCT
Season: Kharif 2019
Farming Situation: Upland Medium

FLD: 2

Crop: Wheat
Thrust Area: Single seedling Var. HD 2967
Thematic Area: Crop Production
Season: Rabi 2019-20
Farming Situation: Upland Medium

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1.	Paddy	0.4	Single seedling	Yield data	Seed	11200	12800	8	2	-	-	8	2	16	4	20
2	Wheat	0.4	Seed	Yield data	Seed	12000	12000	8	2	-	-	8	2	16	4	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field day	Single seedling	1	Practicing farmer	1	Off	13	2	-	-	34	1	47	3	50
Field day	Field day on Early sowing of wheat var. HD 2967	1	Practicing farmer	1	Off	13	2	-	-	34	1	47	3	50

FLD: 3

Crop: Mushroom
Thrust Area: Income & employment generation through cultivation of mushroom
Thematic Area: Mushroom production
Season: Rabi
Farming Situation: Low temperature, High relative humidity inside room

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1.	Mushroom (White button mushroom	50 (No.)	Spawn, compost, chemicals & packaging materials	Yield, BCR	Spawn, compost, chemicals & packaging materials	25000	15000	5	15	0	0	5	25	10	40	50

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Change in behavior towards production technology of mushroom	1	20	1 day	ON	5	15	0	0	5	25	10	40	50

FLD: 4

Crop: Makhan Grass
Thrust Area: Green Fodder
Thematic Area: Fodder Production
Season: Rabi
Farming Situation: Rainfed

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1.	Makhan Grass	0.1	Seed	Milk production/animal/day	Seed	6000	-	3	2	0	0	13	2	16	4	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
1.	Field day	1	PF	1	Off	5	5	0	0	10	5	15	10	25

5. a) Seed and planting material production by utilization of instructional farm (Crops / Enterprises)

Name of the Crop / Enterprise	Variety / Type	Period From…… to ……..	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)

b) Village Seed Production Programme

Name of the Crop / Enterprise	Variety / Type	Period From…… to ……..	Area (ha.)	No. of farmers	Details of Production				
					Type of Produce	Expected Production(q)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)

6. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Farmers				Extension Officials			Total		
			M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	10	300	50	350		10	-	10	310	50	360
2.	KisanMela	1	-	-	-	-	-	-	-	-		Mass
3.	KisanGhosthi	40	700	100	800		25	10	35	725	110	835
4.	Exhibition	1	-	-	-		-	-	-	-	-	mass
5.	Film Show											
6.	Method Demonstrations	6	60	10	70		3	2	5	63	12	75
7.	Farmers Seminar											
8.	Workshop	1	-	-	-	-	-	-	-	-		Mass
9.	Group meetings											
10.	Lectures delivered as resource persons	25	600	20	620		25	15	40	625	35	660
11.	Advisory Services	500	400	100	500		-	-	-	400	100	500
12.	Scientific visit to farmers field	100	60	30	90		10	0	10	70	30	100
13.	Farmers visit to KVK	500	400	100	500					400	100	500
14.	Diagnostic visits	10	40	15	55					40	15	55
15.	Exposure visits	5	150	0	150					150	0	150
16.	Ex-trainees Sammelan											
17.	Soil health Camp											
18.	Animal Health Camp	4	75	25	100	25	0	0	0	75	25	100
19.	Agri mobile clinic											
20.	Soil test campaigns											
21.	Farm Science Club Conveners meet											
22.	Self Help Group Conveners meetings											
23.	MahilaMandals Conveners meetings											
24.	Celebration of important days (specify)											
25.	Any Other (Specify)											
	Total	**1203**	**2785**	**450**	**3235**	**25**	**73**	**27**	**100**	**2858**	**477**	**3335**

7. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2019)	Amount proposed to be invested during 2019-2020	Expected Return
19,65,102.85		

8. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
IFS Model	Govt. of Bihar	9,20,000.00
Kisan Chaupal	Govt. of Bihar	5,20,000.00
Video Conferencing	Govt. of Bihar	2,00,000.00

9. On-farm trials to be conducted*

OFT-1

i. **Season:** **Kharif**
ii. **Title of the OFT:** Assessment of different cropping system in Gaya district
iii. **Thematic Area:** Cropping system
iv. **Problem diagnosed:** Low profitability of Rice-Wheat cropping system
v. **Important Cause:** Scarcity of Labour and less mechanization
vi. **Production system:** Rice-Lentil/wheat
vii. **Micro farming system:** Medium upland
viii. **Technology for Testing:**

TO_2 –Rice-Wheat-Greengram

TO_3 –Rice-Mustard-Greengram

ix. **Existing Practice:** TO_1 – Rice-Wheat-Fallow
x. **Hypothesis:** Reduce cost of cultivation
xi. **Objective(s):** Yield increment with less cost
xii. **Treatments:**

Farmers Practice (FP): Rice-Wheat-Fallow
Technology option-I (TO-I): Rice-Wheat-Greengram
Technology option-II (TO-II): Rice-Mustard-Greengram

xiii. **Critical Inputs:** Seed
xiv. **Unit Size:** 3.5 Acre
xv. **No of Replications:** 7
xvi. **Unit Cost:** 3000
xvii. **Total Cost:** 21000
xviii. **Monitoring Indicator:** Yield attributes, Net return, B:C ratio
xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** ICAR-RCER, Patna

OFT-2

i. **Season:** **Rabi**

ii. **Title of the OFT:** Assess the foliar application of potassium nitrate in late sown wheat for mitigation of terminal heat stress

iii. **Thematic Area:** ICM

iv. **Problem diagnosed:** Low yield in late sown wheat due to terminal heat stress

v. **Important Cause:** Shrinkage of grains due to terminal heat attack

vi. **Production system:** Rice-Wheat

vii. **Micro farming system:** Medium upland

viii. **Technology for Testing:**

TO_2 - Foliar spray 0.5% KNO_3 at booting and 0.5% KNO_3 at anthesis stage

TO_3 – Foliar spray 1.0 % KNO_3 at anthesis stage

ix. **Existing Practice:** TO_1 - Farmer Practice - General cultivation of late sown wheat (during 2nd fortnight of Dec.) without any foliar spray

x. **Hypothesis:**

xi. **Objective(s):** Sustainable enhancement of wheat productivity

xii. **Treatments:**

Farmers Practice (FP): General cultivation of late sown wheat (during 2nd fortnight of Dec.) without any foliar spray

Technology option-I (TO-I): Foliar spray 0.5% KNO_3 at booting and 0.5% KNO_3 at anthesis stage

Technology option-II (TO-II): Foliar spray 1.0 % KNO_3 at anthesis stage

xiii. **Critical Inputs:** Seed and Potassium nitrate

xiv. **Unit Size:** 1.0 Acre

xv. **No of Replications:** 7

xvi. **Unit Cost:** 3000

xvii. **Total Cost:** 21000

xviii. **Monitoring Indicator:** Yield attributes, Net return, B:C ratio

xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** BAU, Sabour

OFT-3

i. **Season:** **Kharif**

ii. **Title of the OFT:** Assessment of effect of different extension teaching methods in enhancing yield of paddy

iii. **Thematic Area:** Extension teaching methods

iv. **Problem diagnosed:** Low yield of paddy due to lack of judicious use of proper extension teaching methods

v. **Important Cause:** Low knowledge & low level of adoption of the recommended production technologies

vi. **Production system:** Moong-Paddy-Wheat

vii. **Micro farming system:** Medium land, availability of insufficient irrigation water

viii. **Technology for Testing:** Seed, Chemicals & fertilizers

ix. **Existing Practice:** Use of local seed

x. **Hypothesis:** Different combination & extension teaching methods does not affect the yield of paddy

xi. **Objective(s):**

1) To increase the yield of paddy
2) To increase the level of knowledge about recommended production technologies
3) To increase the level of adoption of recommended production technologies

xii. **Treatments:**

Farmers Practice (FP): Members of farmers club not exposed to any extension teaching methods regarding recommended production technologies

Technology option-I (TO-I): Members of farmers club given lecture + Literature regarding recommended production technologies

Technology option-II (TO-II): Members of farmers club given sensitivity training + Literature regarding recommended production technologies

Technology option-III (TO-III): Members of farmers club given lecture + video related to recommended production technologies

xiii. **Critical Inputs:** Quality seed of paddy

xiv. **Unit Size:** 0.1 ha

xv. **No of Replications:** 10 (Total no. of plots – 40 i.e., 10 in each)

xvi. **Unit Cost:** Rs. 120/-

xvii. **Total Cost:** Rs. 4800/-

xviii. **Monitoring Indicator:**

i. Level of knowledge
ii. Level of adoption
iii. Yield
iv. B C Ratio

xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** BAU, Sabour

OFT-4

i. **Season:** **Kharif**
ii. **Title of the OFT:** Impact assessment of demonstration among different categories of farmers
iii. **Thematic Area:** Crop production
iv. **Problem diagnosed:** Low level of adoption of recommended package of practices of wheat resulting in its low yield
v. **Important Cause:** Non-adoption of recommended package of practices
vi. **Production system:** Moong-Paddy-Wheat
vii. **Micro farming system:** Timely sown, irrigated condition
viii. **Technology for Testing:** Seed, Chemicals, fertilizers & irrigation
ix. **Existing Practice:** Traditional seed, imbalanced dose of fertilizers used
x. **Hypothesis:** All categories of farmers equally adopted the recommended technologies
xi. **Objective(s):**
    i. To know the level of knowledge of the farmers about recommended technologies
    ii. To find the level of adoption of recommended technologies.
    iii. To know the increase in yield among different categories of farmers
xii. **Treatments:**
    Farmers Practice (FP): Existing local variety
    Technology option-I (TO-I): Improved variety given to small farmers
    Technology option-II (TO-II): Improved variety given to medium farmers
    Technology option-III (TO-III): Improved variety given to large farmers
xiii. **Critical Inputs:** Seed
xiv. **Unit Size:** 0.1 ha
xv. **No of Replications:** 10 (Total no. of plots – 40 i.e., 10 in each)
xvi. **Unit Cost:** Rs. 500/-
xvii. **Total Cost:** Rs. 2000/-
xviii. **Monitoring Indicator:**
    i. Level of knowledge
    ii. Level of adoption
    iii. Yield (qt/ha)
    iv. BCR
xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** BAU, Sabour

OFT - 5

i. **Season:** **Kharif/Rabi**
ii. **Title of the OFT:** Effect of feeding urea molasses multi-nutrient block (UMMB) in dairy animals
iii. **Thematic Area:** Feed management
iv. **Problem diagnosed:** Low productivity due to insufficient nutrient
v. **Important Cause:** Nutrient deficiency due to unavailability of balanced ration
vi. **Production system:** Semi-intensive
vii. **Micro farming system:** Semi-intensive
viii. **Technology for Testing:** Urea molasses multi-nutrient block (UMMB)
ix. **Existing Practice:** No use of UMMB
x. **Hypothesis:** Feeding of balanced ration may improve productivity of dairy animals
xi. **Objective(s):** To increase milk productivity in dairy animals
xii. **Treatments:**

Farmers Practice (FP): No use of UMMB
Technology option-I (TO-I): FP + mineral mixture @ 50g/day/animal for 60 days
Technology option-II (TO-II): FP + UMMB @ 400g/day/animal for 60 days

xiii. **Critical Inputs:** Mineral mixture + UMMB
xiv. **Unit Size:** 1
xv. **No of Replications:** 10
xvi. **Unit Cost:** 2000
xvii. **Total Cost:** 20000
xviii. **Monitoring Indicator:**

1 Milk yield
2 Cost of milk production
3 Gross income
4 Net return
5 B:C ratio

xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** IVRI, Izatnagar

OFT - 6

i. **Season:** **Kharif/Rabi**
ii. **Title of the OFT:** Assessment of different preventive method of subclinical mastitis control in cattle.
iii. **Thematic Area:** Disease Management
iv. **Problem diagnosed:** Reoccurring of sub clinical mastitis in cattle
v. **Important Cause:** Poor hygienic management
vi. **Production system:** Semi-intensive
vii. **Micro farming system:** Semi-intensive
viii. **Technology for Testing:** Teat dip and use of antioxidant & trace mineral, vitamin E and selenium
ix. **Existing Practice:** Use of water to clean teat
x. **Hypothesis:** May help to control mastitis in dairy animal
xi. **Objective(s):** Control of mastitis in dairy animal
xii. **Treatments:**

Farmers Practice (FP): Use of water to clean teat
Technology option-I (TO-I): Use of teat dip
Technology option-II (TO-II): Use of antioxidant & trace mineral, vitamin E and selenium

xiii. **Critical Inputs:**Teat dip, antioxidant & trace mineral, vitamin E and selenium and BTB strip
xiv. **Unit Size:** 1
xv. **No of Replications:** 10
xvi. **Unit Cost:** 1000
xvii. **Total Cost:** 10000
xviii. **Monitoring Indicator:** Occurrence of subclinical mastitis tested by BTB strip
xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Postgraduate institute of veterinary and animal Science, Akola

10. List of Projects to be implemented by funding from other sources (other than KVK fund)

Sl. No.	Name of the project	Fund expected (Rs.)
1.	Biotech Kisan Hub	6.00 lakh
2.	CSISA	1.60 Lakh
3.	GKMS	4.80 Lakh

11. No. of success stories proposed to be developed with their tentative titles

2 – Mushroom Production

12. Scientific Advisory Committee

Date of SAC meeting held during 2018-19	Proposed date during 2019-2020
05.09.2018	01.08.2019

13. Soil and water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	70	9	0	0	0	52	9	61	9	70	5	70
Water Samples												
Other (Please specify)												
Total	**70**	**9**	**0**	**0**	**0**	**52**	**9**	**61**	**9**	**70**	**5**	**70**

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2019	Expected fund requirement (Rs.)
Pay and Allowance	83,06,944.00	1,00,00,000.00
T.A.	1,00,000.00	1,50,000.00
HRD	30,000.00	50,000.00
Contingency	7,78,902.00	10,00,000.00
Capital	4,50,000.00	7,00,000.00
Vehicle	8,00,000.00	0.0
Total	**1,04,65,846.00**	**1,19,00,000.00**

* Any additional requirement may be suitably justified.

15. 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

- ✓ The area under paddy variety Sahbhagi (draught tolerant) has increased significantly i.e., from 275 ha to about 1500 ha.
- ✓ Adoption of drought tolerant paddy variety (Sahbhagi) – About 44%