

Annual Action Plan **(Jan. 2021 - Dec. 2021)**

Krishi Vigyan Kendra Manpur, Gaya



Directorate of Extension Education



Bihar Agricultural University, Sabour Bhagalpur

ACTION PLAN – (Jan. – Dec., 2021)

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 (January to December, 2021)

(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														
INM	Integrated nutrient management in wheat	2	1	On/Off	Jan 2021	10	2	0	0	30	8	40	10	50
IWM	Integrated weed management in wheat	2	1	On/Off	Jan 2021	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Cultivation technique of summer moong.	2	1	On/Off	Feb 2021	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Cultivation technique of Summer maize	2	1	On/Off	Mar 2021	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Package & practices of summer crops	2	1	On/Off	Apr 2021	10	2	0	0	30	8	40	10	50
Soil fertility	Method of soil sampling	2	1	On/Off	May 2021	10	2	0	0	30	8	40	10	50
Nursery Management	Methods of nursery raising of rice	2	1	On/Off	May 2021	10	2	0	0	30	8	40	10	50
RCT	Cultivation Technique of Direct Seeded Rice	2	1	On/Off	June 2021	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Cultivation technique of pigeon pea	2	1	On/Off	June 2021	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Cultivation technique of maize	2	1	On/Off	July 2021	10	2	0	0	30	8	40	10	50

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Production of organic inputs	Management of vermin-compost unit in rainy season	2	1	On/Off	July 2021	10	2	0	0	30	8	40	10	50
IWM	Integrated weed management in paddy	2	1	On/Off	Aug. 2021	10	2	0	0	30	8	40	10	50
INM	Integrated nutrient management in paddy	2	1	On/Off	Sep 2021	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Cultivation technique of wheat	2	1	On/Off	Oct 2021	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Cultivation technique of rapeseed and mustard	2	1	On/Off	Oct 2021	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Cultivation technique of Lentil	2	1	On/Off	Nov 2021	10	2	0	0	30	8	40	10	50
IWM	Integrated weed management in wheat	2	1	On/Off	Dec 2021	10	2	0	0	30	8	40	10	50
	Total	34				170	34	0	0	510	136	680	170	850
Extension Education														
Entrepreneurship development	Income generation by means of mushroom production	2	1	OFF	Jan. 2021	2	2	0	0	32	4	34	6	40
Capacity building	Methods of bee-keeping	2	1	OFF	Feb. 2021	2	2	0	0	32	4	34	6	40
Capacity building	Mushroom production technique	2	1	OFF	Mar. 2021	2	2	0	0	32	4	34	6	40
Organic farming	Production methods of organic fertilizers	2	1	OFF	Apr. 2021	2	2	0	0	32	4	34	6	40
Entrepreneurial development	Beekeeping as the means of self-employment	2	1	OFF	May 2021	2	2	0	0	32	4	34	6	40
Entrepreneurial development	Income generation through mushroom production	2	1	OFF	June 2021	2	2	0	0	32	4	34	6	40
Self-help group	socio-economic upliftment through formation and management of SHGs	2	1	OFF	July 2021	2	2	0	0	32	4	34	6	40
Group dynamics	Farmers field school is the need of the time	2	1	OFF	Aug. 2021	2	2	0	0	32	4	34	6	40

	for changing behavioural component of the farmers													
Information networking	Use of ICT in agriculture for increasing yield	2	1	OFF	Sep. 2021	2	2	0	0	32	4	34	6	40
Information networking	availability of markets for sale of their produce	2	1	OFF	Oct. 2021	2	2	0	0	32	4	34	6	40
Organic farming	Organic farming is the need of the time for farmers	2	1	OFF	Nov. 2021	2	2	0	0	32	4	34	6	40
Entrepreneurship development	Value addition of agricultural products	2	1	OFF	Dec. 2021	2	2	0	0	32	4	34	6	40
	Total	24	12			24	24	0	0	384	48	408	72	480
Veterinary Science														
Disease Management	Management of infertility in dairy animals	2	1	ON/OFF	Jan 21/ Jul 21	8	6	0	0	20	6	28	12	40
Feed Management	Method of calculation of balanced ration in dairy animals	2	1	ON/OFF	Jan 21/ Jul 21	8	6	0	0	20	6	28	12	40
Poultry Management	Management of commercial broiler	2	1	ON/OFF	Feb 21/ Aug 21	8	6	0	0	20	6	28	12	40
Disease Management	Vaccination in cattle in poultry	2	1	ON/OFF	Feb 21/ Aug 21	8	6	0	0	20	6	28	12	40
Feed Management	Fodder production round the year	2	1	ON/OFF	Mar 21/ Sep 21	8	6	0	0	20	6	28	12	40
Disease Management	Management of common diseases of goat	2	1	ON/OFF	Mar 21/ Oct 21	8	6	0	0	20	6	28	12	40
Goat farming	Small scale goat farming	2	1	ON/OFF	Apr 21/ Oct 21	8	6	0	0	20	6	28	12	40
Feed Management	Treatment of straw with urea	2	1	ON/OFF	May 21/ Nov 21	8	6	0	0	20	6	28	12	40
Dairy Management	Clean milk production	2	1	ON/OFF	Sep 21	8	6	0	0	20	6	28	12	40
Disease Management	Management of HS & BQ in dairy animals	2	1	ON/OFF	May 21/ Jun 21	8	6	0	0	20	6	28	12	40
Poultry Management	Income generation through backyard poultry	2	1	ON/OFF	June 21/ Dec 21	8	6	0	0	20	6	28	12	40
Disease Management	Management & vaccination of FMD in dairy animals	2	1	ON/OFF	Nov 21/ Dec 21	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														
RCT	Different methods of crop establishment	1	7	ON	June 2020	8	1	0	0	15	1	23	2	25
Seed Production	Seed Production Technology in rice	1	5	ON	July 2020	8	1	0	0	15	1	23	2	25
Production of Organic Inputs	Methods of vermin compost production	1	5	ON	August 2020	8	1	0	0	15	1	23	2	25
Integrated Farming	Cultivation of aromatic and medicinal Plant	1	5	ON	Sept 2020	8	1	0	0	15	1	23	2	25
Seed Production	Seed Production Technology in Wheat	1	5	ON	Nov 2020	8	1	0	0	15	1	23	2	25
Production of Organic Inputs	Production techniques and uses of vermi composting	1	5	ON	Dec 2020	8	1	0	0	15	1	23	2	25
	Total	6				48	6	0	0	90	6	138	12	150
Extension Education														
Beekeeping	Self-employed through bee-keeping	1	5	ON	Jan. 2021	2	0	0	0	16	2	18	2	20
Entrepreneurship development	Increasing income by means of mushroom production & its value addition	2	5	ON	Feb. 2021	4	0	0	0	32	4	36	4	40
Vermi-culture	Vermicomposting as the means of self-employment	1	5	ON	Nov. 2021	2	0	0	0	16	2	18	2	20
	Total	4				8	0	0	0	64	8	72	8	80
Veterinary Science														
Goat rearing	Goat Management	2	4	ON	Feb 21 Jun 21	8	6	0	0	20	6	28	12	40
Dairying	Dairy Management	2	5	ON	Mar 21, Aug 21	8	6	0	0	20	6	28	12	40
	Total	4	9			16	12	0	0	40	12	56	24	80
Horticulture														

(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No .	Durati on	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Crop Production														
Productivity enhancement in field crops	Advances in Rabi crops	1	1	Off	Jan 2021	8	1	0	0	15	1	23	2	25
Production and use of organic inputs	Production of vermin-compost	1	1	Off	Feb 2021	8	1	0	0	15	1	23	2	25
Integrated Nutrient Management	INM for sustainable paddy production	1	1	Off	June 2021	8	1	0	0	15	1	23	2	25
Integrated Nutrient Management	Training programme on INM for input dealers	1	15	ON	July 2021	8	1	0	0	15	1	23	2	25
Productivity enhancement in field crops	Integrated Weed Management in Rabi crops	1	1	Off	Oct 2021	8	1	0	0	15	1	23	2	25
RCT	Different methods of crop establishment	1	7	ON	Nov 2021	8	1	0	0	15	1	23	2	25
	Total	6				48	6	0	0	90	6	138	12	150
Extension Education														
Entrepreneursh ip development	Doubling income by means of mushroom production	1	1	ON/OFF	Jan 2021	3	2	0	0	18	2	21	4	25
Production and use of organic inputs	Production methods of organic fertilizers	1	1	ON/OFF	Apr 2021	3	2	0	0	18	2	21	4	25
Capacity building for ICT application	Use of ICT in agriculture	1	1	ON/OFF	July 2021	3	2	0	0	18	2	21	4	25
Formation and Management of SHGs	Role and importance of SHGs in enhancing socio-economic condition	1	1	ON/OFF	Oct 2021	3	2	0	0	18	2	21	4	25
	Total	4				12	4	0	0	72	8	84	16	100
Veterinary Science														
Disease Management	Management of infertility in cattle	1	1	ON/OFF	Jun 2021	3	5	0	0	5	7	8	12	20
Dairy Management	Scientific management of dairy animals	1	1	ON/OFF	Dec. 2021	3	5	0	0	5	7	8	12	20
	Total	2				6	10	0	0	10	14	16	24	40

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	6	90	24	114	30	6	36	0	0	0	120	30	150
Resource Conservation Technologies	2	30	8	38	10	2	12	0	0	0	40	10	50
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management	2	30	8	38	10	2	12	0	0	0	40	10	50
Integrated Crop Management	16	240	64	304	80	16	96	0	0	0	320	80	400
Fodder production													
Production of organic inputs	2	30	8	38	10	2	12	0	0	0	40	10	50
Others, (cultivation of crops) Soil Fertility													
TOTAL	28	420	112	532	140	28	168	0	0	0	560	140	700
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													
Management of potted plants													

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
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	2	30	8	38	10	2	12	0	0	0	40	10	50
Soil and Water Conservation													
Integrated Nutrient Management	4	60	16	76	20	4	24	0	0	0	80	20	100
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	6	90	24	114	30	6	36	0	0	0	120	30	150
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													

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
Hatchery management and culture of freshwater prawn													
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	2	32	4	36	2	2	4	0	0	0	34	6	40
Formation and Management of SHGs	2	32	4	36	2	2	4	0	0	0	34	6	40
Mobilization of social capital													
Entrepreneurial development of farmers/youths	8	128	16	144	8	8	16	0	0	0	136	24	160
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	4	64	8	72	4	4	8	0	0	0	68	12	80
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	82	1134	256	1390	290	130	420	0	0	0	1424	386	1810

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	8	1	9	0	0	0	23	2	25
Seed production	2	30	2	32	16	2	18	0	0	0	46	4	50
Production of organic inputs	2	30	2	32	16	2	18	0	0	0	46	4	50
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)													
Resource conservation technology	1	15	1	16	8	1	9	0	0	0	23	2	25
TOTAL	14	194	26	220	72	18	90	0	0	0	266	44	310

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	16	2	18	0	0	0	46	4	50
Integrated Pest Management													
Integrated Nutrient management	2	30	2	32	16	2	18	0	0	0	46	4	50
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation and Management of SHGs	1	18	2	20	3	2	5	0	0	0	21	4	25
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application	1	18	2	20	3	2	5	0	0	0	21	4	25
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	1	5	7	12	3	5	8	0	0	0	8	12	20
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs	2	33	3	36	11	3	14	0	0	0	44	6	50
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
RCT	1	15	1	16	8	1	9	0	0	0	23	2	25
Entrepreneurship Development	1	18	2	20	3	2	5	0	0	0	21	4	25
TOTAL	12	172	28	200	66	24	90	0	0	0	238	52	290

4. Frontline demonstration to be conducted*

FLD: 1

Crop: Moong Var. PDM -139
Thrust Area: Cropping intensity
Thematic Area: ICM
Season: Summer 2021
Farming Situation: Upland Medium

FLD: 2

Crop: Paddy Var. R. Sweta
Thrust Area: Transplanting
Thematic Area: ICT
Season: Kharif 2021
Farming Situation: Upland Medium

FLD: 3

Crop: Groundnut Var. A.K. – 12 - 24
Thrust Area: Introduction of new crop
Thematic Area: ICM
Season: Kharif 2021
Farming Situation: Upland Medium

FLD: 4

Crop: Wheat
Thrust Area: ZT Var. Sabour Shrestha
Thematic Area: ICT
Season: Rabi 2021-22
Farming Situation: Upland Medium

S l. N o.	Crop & variety / Enterprise	Prop osed Area (ha)/ Unit (No.)	Technol ogy package for demonst ration	Parameter (Data) in relation to technology demonstra ted	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	De mo	Local	SC		ST		Other			Total	
								M	F	M	F	M	F	M	F	T
1	Moong (PDM-139)	10	Seed & seed treatment	Yield & Economics	Seed, bio-fertilizers			8	2	-	-	12	3	20	5	25
2	Paddy (R. Sweta)	5	Single seedling	Yield data	Seed, herbicide			2	1	-	-	8	1	10	2	12
3	Groundnut (A.K. 12 – 24)	2	Seed	Yield & Economics	Seed			6	3	0	0	10	2	16	5	21
4	Wheat	10	ZT	Yield data	Seed			8	2	-	-	12	3	20	5	25

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	2	Practicing farmer	2	Off	26	8	-	-	61	9	87	17	104
Field day	Field day on Early sowing of wheat var. S. Shreshtha	1	Practicing farmer	1	Off	15	4	-	-	44	6	59	10	69

FLD: 5

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

S l. N o.	Crop & variety / Enterprises	Prop osed Area (ha)/ Unit (No.)	Technolo gy package for demonstr ation	Paramet er (Data) in relation to technolo gy demonstr ated	Name of Inputs	Cost of cultivation	No. of farmers / demonstration								
							SC		ST		Other		Total		
							M	F	M	F	M	F	M	F	T
1	Mushroom (Button mushroom)	50 (No.)	Spawn, compost, chemicals & packaging materials	Yield, BCR	Spawn, compost, chemicals & packaging materials		5	15	0	0	5	25	10	40	50

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clien tele	Dura tion	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	50	1 day	ON	5	15	0	0	5	25	10	40	50

FLD: 6

Crop: Paddy
Thrust Area: Yield enhancement through application of bio-fertilizers
Thematic Area: INM
Season: Kharif
Farming Situation: Irrigated, Rice-Wheat-Moong

S I. N o.	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								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1.	Paddy (R. Sweta)	10 ha	PSB	Yield, BCR	PSB			5	2	0	0	13	5	18	7	25

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	Importance of bio-fertilizers as soil application in enhancing yield	1	20	1 day	ON/OFF	5	2	0	0	13	5	18	7	25

FLD: 7

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

Sl. N o.	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								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								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

FLD: 8

Crop: Livestock
Thrust Area: Feed Management
Thematic Area: Feed Management
Season: Rabi/Kharif
Farming Situation: Semi intensive

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								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1.	Livestock	20	Mineral Mixture	Milk production/animal/day	Mineral Mixture	15000	-	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 Jan. 2021 to Dec. 2021	Area (ha.)	Details of Production					
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)	
Greengram	PDM- 139	Feb 2021	1.0	F/S	5.0	16000	75000	59000	
Paddy	R. Sweta	June 2021	5.0	F/S	200.0	200000	900000	700000	
Wheat	DBW - 187	Nov 2021	4.0	F/S	120.0	120000	540000	420000	
Wheat	S. Shrestha	Dec 2021	1.0	F/S	30.0	30000	135000	105000	

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.	KisanGhoshthi	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 2020-2021 (As on 01.01.2021)	Amount proposed to be invested during 2020-2021	Expected Return
24,67,973.85	3,50,000.00	11,00,000.00

8. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
Video Conferencing	Govt. of Bihar	4,50,000.00

9. On-farm trials to be conducted*

OFT-1

1	Season:	Kharif 2021
2	Title of the OFT:	To access the suitable nitrogen management through different tools on paddy under rice- wheat cropping system
3	Thematic Area:	Integrated nutrient management
4	Problem diagnosed:	Low yield and excessive use of N fertilizer
5	Important Cause:	Injudicious use of fertilizer in paddy
6	Production system:	Rice-Wheat Production System
7	Micro farming system:	Crop production
8	Technology for Testing:	TO ₁ – Farmer Practice - 225:40:0 kg NPK/ha TO ₂ – Recommended dose of Fertilizer(120:60:40)kg NPK/ha TO ₃ –Use of green seekere at 1 st and 2 nd top dressing(1/2 dose of N and 60:40kg P:K/ha) TO ₄ –Use of LCC at 1 st and 2 nd top dressing(1/2 dose of N and 60:40kg P:K/ha)
9	Existing Practice:	225:40:0kg NPK/ha
10	Hypothesis:	All technology option produce similar yield
11	Objective(s):	To assess the optimum dose of N in paddy To assess the yield & economics of different management practices
12	Treatments:	TO ₁ – Farmer Practice - 225:40:0 kg NPK/ha TO ₂ – Recommended dose of Fertilizer(120:60:40)kg NPK/ha TO ₃ –Use of green seekere at 1 st and 2 nd top dressing(1/2 dose of N and 60:40kg P:K/ha) TO ₄ –Use of LCC at 1 st and 2 nd top dressing(1/2 dose of N and 60:40kg P:K/ha)
13	Critical Inputs:	Seed, Tricyclazol
14	Unit Size:	1 acre
15	No of Replications:	5
16	Unit Cost:	Rs 2450=00
17	Total Cost:	Rs 2000 X 5=Rs 10000
18	Monitoring Indicator:	Yield attributes, Yield, Soil properties, Economics
19	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	ICAR-RCER Patna

OFT – 2

1	Season	Rabi 2021
2	Title of the OFT:	To access the suitable herbicide in wheat to control the complex weed flora of South Bihar.
3	Thematic Area:	Integrated Weed management
4	Problem diagnosed:	Low income due to high infestation of weed
5	Important Cause:	Improper application of herbicides
6	Production system:	Rice-wheat Production System
7	Micro farming system:	Crop production
8	Technology for Testing:	Farmer Practice - (Use of 2,4-D Na Salt 1000g/ha at 35DAS) TO ₁ –Application of Sulfosulfuron 33g/ha+ Metsulfuron 33g/ha at 30DAS TO ₂ – Application of Clodinofof ethyl 400g/ha+ Carfentrazone-ethyl 50g/ha at 30DAS
9	Existing Practice	Broad costing of 2,4-D Na salt
10	Hypothesis:	All technology option produce similar yield
11	Objective(s):	To assess the suitable herbicide for control of complex weed flora To assess the economics of different technology option
12	Treatments:	Farmer Practice - (Use of 2,4-D Na Salt 1000g/ha at 35DAS) TO ₁ –Application of Sulfosulfuron 33g/ha+ Metsulfuron 33g/ha at 30DAS TO ₂ – Application of Clodinofof ethyl 400g/ha+ Carfentrazone-ethyl 50g/ha at 30DAS
13	Critical Inputs:	Seed 50 kg/ha, Total, clodinofof and carfentrazone
14	Unit Size:	1 acre
15	No of Replications:	10
16	Unit Cost:	Rs 3275=00
17	Total Cost:	Rs 3275X 5=Rs 16375
18	Monitoring Indicator:	Yield attributes, Yield, weed studies Economics
19	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	ICAR-RCER Patna

OFT-3

1	Season	Kharif
2	Title of the OFT:	To assess the suitable cropping system under rice fallow condition of South Bihar
3	Thematic Area:	Cropping system
4	Problem diagnosed:	<ul style="list-style-type: none"> • Low system productivity & profitability under rice fallow system due to water scarcity • Soil moisture deficiency for next crop
5	Important Cause:	Low rainfall
6	Production system:	Rice-Lentil/Lathyrus
7	Micro farming system:	Medium upland, rainfed
8	Technology for Testing:	TO ₁ (FP) – Rice-Fallow TO ₂ –Rice (S. Ardhajal)-Utera Lentil TO ₃ –Rice (S. Ardhajal)-Utera Lathyrus TO ₄ - Rice (S. Ardhajal)-Utera Linseed
9	Existing Practice	TO ₁ – Rice-Fallow
10	Hypothesis:	Less productivity
11	Objective(s):	Yield enhancement with different cropping system
12	Treatments:	Technology option-I (TO-I) (Farmers Practice (FP)): Rice- Fallow Technology option-II (TO-II): Rice (S. Ardhajal)- Utera Lentil Technology option-III(TO-III): Rice (S. Ardhajal)-Utera Lathyrus Technology option-IV (TO-IV): Rice (S. Ardhajal)-Utera Linseed
13	Critical Inputs:	Seed
14	Unit Size:	2.5 Acre
15	No of Replications:	5
16	Unit Cost:	3000
17	Total Cost:	15000
18	Monitoring Indicator:	Yield attributes, Net return, B:C ratio, soil moisture status
19	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	ICAR-RCER, Patna

OFT-4

1	Season	Kharif
2	Title of the OFT:	To assess the suitable herbicide to control the weed in paddy
3	Thematic Area:	Weed management
4	Problem diagnosed:	Heavy weed infestation of mixed flora while cyprus rotandus is a serious problem in rice causing reduction in yield
5	Important Cause:	Less yield due to severe infestation of weeds
6	Production system:	Rice-Wheat
7	Micro farming system:	Medium upland
8	Technology for Testing:	TO ₁ (FP) – Pretilachlor 750 g a.i/ha as a PE at 0 – 3 DAT TO ₂ – TO ₁ + Pyrazosulfuron 25 g a.i /ha as a POE at 20 – 25 DAT TO ₃ – TO ₁ +Pyrazosulfuron 25 g a.i /ha as a POE Fb Bisparivac sodium 25 g a.i/ha as a POE at 20 – 25 DAT
9	Existing Practice	TO ₁ (FP) – Pretilachlor as a PE at 0 – 3 DAT
10	Hypothesis:	All technology option produce different yield
11	Objective(s):	<ul style="list-style-type: none"> To assess the suitable herbicide for control of complex weed flora To assess the economics of different technology option
12	Treatments:	TO ₁ (FP) – Pretilachlor 750 g a.i/ha as a PE at 0 – 3 DAT TO ₂ – TO ₁ + Pyrazosulfuron 25 g a.i /ha as a POE at 20 – 25 DAT TO ₃ – TO ₁ +Pyrazosulfuron 25 g a.i /ha as a POE Fb Bisparivac sodium 25 g a.i/ha as a POE at 20 – 25 DAT
13	Critical Inputs:	Seed and herbicide
14	Unit Size:	5.0 Acre
15	No of Replications:	5
16	Unit Cost:	4000
17	Total Cost:	20000
18	Monitoring Indicator:	Yield attributes, Net return, B:C ratio, weed studies
19	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	CSISA - CYMMYT

OFT-5 (Extension Education)

1	Season:	Kharif
2	Title of the OFT:	Assessment of Soil Health Card in Gaya district
3	Thematic Area:	Soil fertility management
4	Problem diagnosed:	Only few farmers are aware about importance and benefits of Soil Health Card
5	Important Cause:	Non-adoption of recommended dose of fertilizers
6	Production system:	Paddy-Wheat-Green gram
7	Micro farming system:	Timely sown, irrigated condition
8	Technology for Testing:	Survey through questionnaire (dose of fertilizer, time of fertilizer application and method of fertilizer application)
9	Existing Practice:	Overdose/ under dose of fertilizers application
10	Hypothesis:	All farmers are aware of dose of fertilizer recommendations
11	Objective(s):	To know the level of knowledge of the farmers about recommended dose of fertilizers To find the level of adoption of recommended dose of fertilizers To know the increase in yield due to use of fertilizers as per recommendations
12	Treatments:	Farmers Practice - Farmers having no Soil Health Card not applying recommended dose of fertilizer. Option I – Have soil health card but not applying as recommendation in training/group meeting Option II – Have soil health card and apply as per recommendation
13	Critical Inputs:	
14	Unit Size:	-
15	No of Replications:	90
16	Unit Cost:	
17	Total Cost:	
18	Monitoring Indicator:	i. Level of knowledge (%) ii. Level of adoption (%) iii. Yield (qt./ha) iv. BCR
19	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	BAU, Ranchi, Jharkhand

OFT-6 (Extension Education)

1	Season	Rabi
2	Title of the OFT:	Assessment of different Extension Teaching methods used in popularising wheat sowing by Zero Tillage Machine among farmers of Gaya District.
3	Thematic Area:	Capacity building
4	Problem diagnosed:	As a result of high cost of cultivation late sowing of wheat there is less productivity resulting in less net income
5	Important Cause:	Late harvesting of paddy
6	Production system:	Crop production
7	Micro farming system:	Irrigated
8	Technology for Testing:	<ol style="list-style-type: none"> 1. Level of knowledge (%) 2. Level of adaption (%) 3. B:C ratio
9	Existing Practice	Farmers sowing wheat by broadcasting method after tillage
10	Hypothesis:	Different extension teaching methods perform equally
11	Objective(s):	<ol style="list-style-type: none"> 1. To know the level of knowledge regarding sowing of wheat by ZT method 2. To know the level of adoption of wheat technologies by ZT method 3. To know the production potential of wheat sown by ZT method
12	Treatments:	<p>Farmers Practice – Group of farmers not exposed to any Extension Teaching methods for sowing of wheat by Zero Tillage Machine.</p> <p>TO₁– Group of farmers given Training +Literature on sowing of wheat by Zero Tillage machine</p> <p>TO₂ - Group of farmers given Training +Demonstration on sowing of wheat by Zero Tillage machine</p>
13	Critical Inputs:	
14	Unit Size:	
15	No of Replications:	
16	Unit Cost:	
17	Total Cost:	2000
18	Monitoring Indicator:	Field visit and survey
19	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	BAU Sabour

OFT – 7

1	Season:	Kharif/Rabi
2	Title of the OFT:	Comparative assessment of hormone (GnRH) and mineral mixture supplement for improving postpartum anestrus in cattle
3	Thematic Area:	Disease management
4	Problem diagnosed:	Postpartum infertility in cattle
5	Important Cause:	Hormonal imbalance and nutrient deficiency
6	Production system:	Semi-intensive
7	Micro farming system:	Semi-intensive
8	Technology for Testing:	Farmer Practice (FP) - Dewormer + Mineral Mixture @ 50 gm/day TOI – FP + Inorganic Phosphorus Inj. + Vitamin AD ₃ E Inj. @ 10 ml alternate day + Micro-minerals 1 Bolus for 28 days TO II – FP + TOI + GnRH Inj. @ 5 ml at the time of AI
9	Existing Practice:	Treatment with mineral mixture
10	Hypothesis:	All technology option produce similar yield
11	Objective(s):	To assess the suitable treatment of postpartum infertility
12	Treatments:	Farmer Practice (FP) - Dewormer + Mineral Mixture @ 50 gm/day TOI – FP + Inorganic Phosphorus Inj. + Vitamin AD ₃ E Inj. @ 10 ml alternate day + Micro-minerals 1 Bolus for 28 days TO II – FP + TOI + GnRH Inj. @ 5 ml at the time of AI
13	Critical Inputs:	Medicine
14	Unit Size:	1
15	No of Replications:	10
16	Unit Cost:	Rs. 2500.00
17	Total Cost:	Rs 2500/- x 10 = 25000/-
18	Monitoring Indicator:	No. of animal came in heat, No. of animal pregnant,
19	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	BVC, Patna

OFT – 8

1	Season:	Kharif/Rabi
2	Title of the OFT:	Evaluation of ethnoveterinary preparation for treatment of retention of placenta (ROP) in cattle
3	Thematic Area:	Disease management
4	Problem diagnosed:	Retention of placenta in cattle
5	Important Cause:	Hormonal imbalance and nutrient deficiency
6	Production system:	Semi-intensive
7	Micro farming system:	Semi-intensive
8	Technology for Testing:	Radish – 2 tuber + 1.5 kg ladyfinger + 250 g jiggery + 25 g salt after caving
9	Existing Practice:	Treatment with medicine
10	Hypothesis:	Ethnoveterinary preparation can treat effectively
11	Objective(s):	To evaluate the ethnoveterinary preparation
12	Treatments:	Farmer Practice (FP) - Rice husk TOI – Radish – 2 tuber + 1.5 kg ladyfinger + 250 g jiggery + 25 g salt after caving TO II – Exapar @ 100 ml x 2
13	Critical Inputs:	Medicine
14	Unit Size:	1
15	No of Replications:	10
16	Unit Cost:	Rs. 250.00
17	Total Cost:	Rs 250/- x 10 = 2500/-
18	Monitoring Indicator:	No. of animal effectively treated
19	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	NDDB, Anand, Gujarat

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.	CRAP	9.0 Lakh
2.	CSISA	1.0 Lakh
3.	GKMS	4.80 Lakh

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

- 1 – Honey Production
- 2 – Integrated Farming System

12. Scientific Advisory Committee

Date of SAC meeting held during 2020-21	Proposed date during 2021
13.01.2020	15 Oct., 2021
16.10.2020	

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 31.03.2020	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%
