

KRISHI VIGYAN KENDRA, KATIHAR
(Bihar Agricultural University, Sabour)

ACTION PLAN, 2020

GENERAL INFORMATION ABOUT THE KVK

Introduction:

Name of the KVK: KVK, Katihar

Address	Telephone	E mail
KRISHI VIGYANKENDRA, TINGACHHIYA, KATIHAR, PIN-854105	06452-246875	katiharkvk@gmail.com

2.Name of host organization :

Address	Telephone		E mail
	Office	FAX	
Bihar Agricultural University, Sabour, Bhagalpur, Bihar	0641- 2452606	0641-2452614	vcbausabour@gmail.com

Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Permanent/Temporary	Category (SC/ST/OBC/Others)
1	Senior Scientist & Head	Dr. Reeta Singh	Sr. Scientist & head	Permanent	OBC
2	Subject Matter Specialist	Dr. Sushil Kumar Singh	Subject Matter Specialist	Permanent	OBC
3	Subject Matter Specialist	Smt. Nandita Kumari	Subject Matter Specialist	Permanent	OBC
4	Subject Matter Specialist	Dr. Kamleshwari Singh	Subject Matter Specialist	Permanent	OBC
5	Subject Matter Specialist	Sri Pankaj Kumar	Subject Matter Specialist	Permanent	EBC
6	Subject Matter	Dr. Rama Kant	Subject Matter	Permanent	Gen

	Specialist	Singh	Specialist		
7	Subject Matter Specialist				
8	Programme Assistant	Smt. Swarn Prabha Reddy	Programme Assistant (Lab. Tech)	Permanent	OBC
9	Computer Programmer	Sri Amarendra Kumar Vikas	Programme Assistant (Computer)	Permanent	Gen
10	Farm Manager	Sri Om Prakash Bharti	Farm Manager	Permanent	EBC
11	Accountant / Superintendent	Sri Mukesh Kumar	Assistant	Permanent	EBC
12	Stenographer	Sri Biswajit Datta	Stenographer	Permanent	Gen
13.	Driver	Sri Ram Jee	Driver	Permanent	OBC
14.	Driver	Sri Manoj Kumar Prajapati	Driver	Permanent	Gen
15.	Supporting staff				
16.	Supporting staff				

3. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	1.50
2.	Under Demonstration Units	0.50
3.	Under Crops	4.50
4.	Orchard/Agro-forestry	1.2
5.	Others with details	12.3
Total		20.00

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4. Major farming systems/enterprises (based on the analysis made by the KVK)

S. No.	Farming system/enterprise
1	Paddy-Wheat based farming system
2	Paddy-Maize based farming system
3	Paddy- Mustard- Boro paddy based farming system
4	Fish Culture
5	Bamboo Production & Processing
6	Mushroom Production & its Value added products
7	Makhana Cultivation and primary processing
8	Poultry production
9	Vermi Compost production
10	Tissue Culture Banana

5. About District

DEMOGRAPHIC FEATURES	
Area (in ha.)	291349000
No. of Sub-Division	03
No. of Block	16
No. of Gram Panchayat	244
No. of Village	1543
Total Population	3071029
Population Density (per sq. km.)	1005
SC Population	263100
ST Population	179971
Sex Ratio	919
Literacy rate	52.24

Source: As per 2011 Census

6. Description of Agro-climatic Zone & major agro ecological situations (based on soil and Topography)

S. No	Agro-climatic Zone	Characteristics
1	Zone-II (North – East Alluvial Plain)	High Temperature, High Humidity, Sandy to clay soil, Flood Prone area

7. Agro ecological situation

S. No	Agro ecological situation	Area (ha)	Characteristics
1	Up land sandy soil	-	Suitable for maize, wheat, Banana, vegetables & fruits
2	Medium Sandy loam soil	-	Wheat, Maize, Jute, Rice, Oil seeds & pulses & vegetable & fruits cultivation
3	Low lying clay soil -	-	with flood & water lodging condition Suitable for Boro paddy, Makhana & paira cropping Diara land of Kosi, Ganga and Mahananda with sandy
4	loamy soil	-	suitable for Rabi Maize, wheat, oil seeds pulses & cucurbitaceous vegetable flooded during Kharif Season

8. Soil types

S. No	Soil type	Characteristics	Area in ha
1	Up land sandy soil-	Suitable for vegetables wheat, maize, Banana	-
2	Medium Loamy Soil	Well drained rich in organic carbon suited for wheat, Maize, oil seeds and pulses & vegetables	-
3	Low lying clay soils	Suitable for Makhana, Boro paddy & fishery	-
4	New alluvial diara land soil	Deposition of clay soil year after year good for Rabi crops.	-

9. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Productivity (q/ha)
1.	Rice	41
2.	Maize	72
3	Wheat	33
4	Pigeonpea	13
5	Mustard	12
6	Pulses (others) (lentil)	10.80
7	Potato	16.36
8	Okra	12.79
9	Jute (Fibre)	22
10	Cauliflower	16.69
11	Brinjal	20.80
12	Banana	48.00
13	Tomato	19.79
14	Cabbage	16.90
15	Chili	11.60
16	Mango	7.90
17	Guava	8.00
18	Lichi	7.58
19	Onion	19.86
20	Merigold	8.0

10. Details of operational area / villages

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Katihar	Korha	Musapur	Vegetable Banana Paddy Maize Oil Seeds	Lack of high yielding varieties, pest & diseases control	Varietal Improvement, Promotion of IPM Practices
2.		Katihar	Sirsa	Banana, Makhana, Wheat, Paddy , Maize, Vegetables	Women empowerment, Lack of high yielding varieties, Pest & Disease control	Varietal Improvement, Promotion of IPM Practices Promotion of Banana Makhana based farming system and jute cultivation
3.		Katihar	Pokhariya	Vegetables, Paddy, Maize, Boro Paddy	Lack of high yielding varieties, pest & diseases control	Varietal Improvement, Promotion of IPM Practices Promotion of Banana Makhana based farming system and jute cultivation
4.		Dandkhora	Barua Tola	Maize, Pulses, Paddy, Wheat, Vegetables	Lack of high yielding variety, pest & diseases control, INM	Varietal Improvement, Promotion of IPM Practices Promotion of INM Practices
5.		Mansahi	Lahsa	Vegetable Boro Paddy, Oil Seeds Maize	Lack of high yielding variety, pest & diseases control, INM	Varietal Improvement, Promotion of IPM Practices Promotion of INM Practices

11. Priority thrust areas

S. No	Thrust area
1.	Soil test based nutrition management in crops of the district
2.	Development of Suitable cropping system for diara, tal land of the district
3.	Implementation of women programmes in relation to food, nutrition and drudgery
4.	Promotion of Entrepreneurship development
5.	Soil test based nutrition management in crop plants of the district.
6.	Promotion of Banana, Makhana based farming system and jute cultivation.
7.	Promotion and adoption of Integrated farming system for the district.
8.	Technology dissemination through production and supply of plant and seed materials
9.	Identification & Popularization of good quality vegetable seeds

12. Training program to be organized (January 2020 to December 2020)

1. Home Science

Thematic Area	Title of Training	Qr. No.	Duration	Venue OFF/On Campus	Tentative Date	Participants/Trainees								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Income Generation	Preparation of potato chips, badi and papad	1	2	On/Off	3-4.01.2020	0	3	0	2	0	20	0	25	25
Income Generation	Preparation of potato chips, badi and papad	1	1	On/Off	8.01.2020	0	3	0	2	0	20	0	25	25
Capacity building	Nutritional Practices in Dietary pattern women & Children	1	2	On/Off	05-06-02.2020	0	3	0	2	0	20	0	25	25
Capacity building	Nutritional Practices in Dietary	1	2	On/Off	26-27.02.2020	0	3	0	2	0	20	0	25	25

	pattern women & Children													
Gender mainstreaming	Gender mainstreaming and formation of SHGs	1	2	OFF	18-19.03.2020	0	2	0	3	0	20	0	25	25
Gender mainstreaming	Gender mainstreaming and formation of SHGs	1	3	OFF	29-31.03.2020	0	2	0	3	0	20	0	25	25
Rural Crafts	Cutting and stitching of garment and embroidery works/ Tie Die and Textile design	1	2	On/Off	03-03.04.2020	0	3	0	2	0	20	0	25	25
Rural Crafts	Cutting and stitching of garment and embroidery works/ Tie Die and Textile design	1	2	On/Off	21-22.04.2020	0	3	0	2	0	20	0	25	25
Drudgery reduction	Location specific drudgery reduction technologies in Agriculture	1	2	On/Off	05-06.05.2020	0	3	0	2	0	20	0	25	25
Drudgery reduction	Location specific drudgery reduction technologies in Agriculture	1	2	On/Off	19-20.05.2020	0	3	0	2	0	20	0	25	25
Drudgery reduction	Location specific drudgery reduction technologies in Agriculture	1	2	On/Off	03-04.06.2020	0	3	0	2	0	20	0	25	25
Value addition	Preservation of seasonal fruits pineapple and	1	2	On/Off	23-24.06.2020	0	2	0	3	0	20	0	25	25

	others													
Value addition	Preservation of seasonal fruits pineapple and others	1	2	On/Off	08-09.07.20 20	0	2	0	3	0	20	0	25	25
Women and child care	Importance and use of balanced diet for children and women.	1	2	On/Off	28-29.07.20 20	0	3	0	2	0	20	0	25	25
Women and child care	Importance and use of balanced diet for children and women.	1	1	On/Off	04-05.08.20 20	0	3	0	2	0	20	0	25	25
Minimization of nutrient loss in processing	Preparation of energy efficient diet	1	2	On/Off	18-19.08.20 20	0	3	0	2	0	20	0	25	25
Minimization of nutrient loss in processing	Preparation of energy efficient diet	1	2	On/Off	03-04.09.20 20	0	3	0	2	0	20	0	25	25
Enterprise development	Enterprise development through Mushroom cultivation	1	2	On/Off	16-17.09.20 20	0	3	0	2	0	20	0	25	25
Enterprise development	Enterprise development through Mushroom cultivation	1	2	On/Off	05-06.10.20 20	0	3	0	2	0	20	0	25	25
Household food security by kitchen gardening	Importance of Nutritional Kitchen gardening and management	1	2	On/Off	19-20.10.20 20	0	3	0	2	0	20	0	25	25
Household food security by kitchen gardening	Importance of Nutritional Kitchen gardening and management	1	2	On/Off	02-03.11.20 20	0	3	0	2	0	20	0	25	25
Designing	Preparation of	1	2	On/Off	15-	0	3	0	2	0	20	0	25	25

and development for high nutrient efficiency diet	weaning food for better child growth				16.12.20 20										
Rural Youth															
Post Harvest Technology	Preparation of potato chips, papar and other products	1	4	ON/OFF	10-13.02.20 20	-	3	-	2	-	20	-	25	25	
Rural Craft	Tie, dye & Fabric painting & cloth designing	1	4	ON/OFF	23-26.03.20 20	-	3	-	2	-	20	-	25	25	
Value Addition	Preservation of seasonal fruits	1	4	ON/OFF	27-30.04.20 20	-	3	-	2	-	20	-	25	25	
Tailoring and Stitching	Cutting,, stitching and embroidery of women garments	1	4	ON/OFF	04-07.05.20 20	-	3	-	2	-	20	-	25	25	
Mushroom Production	Mushroom cultivation for income generation	1	4	ON/OFF	07-10.09.20 20	-	3	-	2	-	20	-	25	25	
Rural Craft	Production of decorative items from locally available materials	1	4	ON/OFF	16-19.06.20 20	-	3	-	2	-	20	-	25	25	
Value Addition	Preservation of seasonal vegetables	1	4	ON/OFF	25-28.08.20 20	-	3	-	2	-	20	-	25	25	

House Hold Food Security	Importance of nutritional kitchen gardening and its management.	1	4	ON/OFF	24-27.11.2020	-	3	-	2	-	20	-	25	25
Mushroom Production	Different mushroom type, production procedures, and Mushroom products	1	4	ON/OFF	15-18.12.2020	-	3	-	2	-	20	-	25	25
Extension Functionaries														
Household food security	Nutritional backyard kitchen gardening.	1	1	ON/OFF	12.03.2020	-	3	-	2	-	20	-	25	25
Gender main streaming	Entrepreneurs hip development and women empowerment	1	1	ON/OFF	16.04.2020	-	3	-	2	-	20	-	25	25
Women and Child Care	Women and Child Care Practices	1	1	ON/OFF	20.10.2020	-	3	-	2	-	20	-	25	25
Rural Craft	Training on different type of State Embroidery	1	1	ON/OFF	12.11.2020	-	3	-	2	-	20	-	25	25

2. Agronomy

Thematic Area	Title of Training	Qr. No.	Duration	Venue OFF/ On Campus	Tentative Date	Participants/Trainees								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Nursery Management	Nursery Management of Paddy	1	1	ON/OFF	03.01.2020	7	1	1	4	9	3	17	8	25
Cropping system	Management of Rice-wheat /maize cropping system	1	1	ON/OFF	04.02.2020	9	1	1	4	8	2	18	7	25
ICM	Agronomic management practices of Jute	1	1	ON/OFF	02.03.2020	7	2	1	4	8	3	16	9	25
Crop diversification	Diversification of Rice-Wheat Cropping system	1	1	ON/OFF	17.03.2020	9	1	1	4	8	2	18	7	25
Resource conservation Technology	Cultivation of Direct Seeded Rice	1	1	ON/OFF	24.04.2020	7	2	1	4	8	3	16	9	25
Weed management	Weed management in Kharif Crops	1	1	ON/OFF	20.05.2020	8	2	1	4	8	2	17	8	25
Water Management	Water management in Paddy	1	1	ON/OFF	13.06.2020	7	2	1	4	8	3	16	9	25
Seed Production	Seed Production of Wheat	1	1	ON/OFF	23.06.2020	8	1	1	4	9	2	18	7	25

Weed management	Weed management in Rabi crops	1	1	ON/OFF	03.07.2020	7	1	1	4	10	2	18	7	25
ICM	Scientific Cultivation of Rabi pulses	1	1	ON/OFF	22.07.2020	9	1	1	4	8	2	18	7	25
Fodder management	Scientific Cultivation of fodder	1	1	ON/OFF	02.09.2020	8	2	1	4	8	2	17	8	25
Integrated crop Management	Agronomic management practices of Boro Paddy	1	1	ON/OFF	28.10.2020	7	2	1	4	9	2	17	8	25
Weed Management	Weed Management on Boro Rice	1	1	ON/OFF	18.11.2020	9	1	1	4	8	2	18	7	25
Integrated farming	Development integrated farming practices	1	1	ON/OFF	29.12.2020	8	2	1	4	8	2	17	8	25

Rural Youth

Crop diversification	Diversification of Rice Wheat Cropping system	1	4	ON/OFF	14-17.01.2020	9	1	1	4	8	2	18	7	25
Seed production	Seed Production of Paddy	1	4	ON/OFF	12-15.05.2020	7	2	1	4	8	3	16	9	25
ICM	Agronomic management practices of Maize	1	4	ON/OFF	13-16.10.2020	9	1	1	4	8	2	18	7	25
Integrated farming System	Integrated farming System	1	4	ON/OFF	10-13.02.2020	8	2	1	4	8	2	17	8	25

Extension Functionaries

ICM	Agronomic Management practices of Jute	1	1	ON/OFF	05.03.2020	7	2	1	4	11	5	19	11	30
Productivity enhancement in field crops	Agronomic Management practices of paddy	1	1	ON/OFF	08.05.2020	8	2	1	4	11	4	20	10	30
RCT	Sowing of Wheat by technology	1	1	ON/OFF	05.10.2020	7	2	1	4	11	5	19	11	30
Integrated farming system	Integrated farming system	1	1	ON/OFF	17.11.2020	8	2	1	4	11	4	20	10	30

3. Horticulture

Thematic Area	Title of Training	Qr. No.	Duration	Venue OFF/On Campuses	Tentative Date	Participants/Trainees								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Seed production	Nursery raising and seed production of vegetable crops	1	1	ON/OFF	09.01.2020	3	-	2	-	20	-	25	0	25
Training and Pruning	Training & pruning of Horticultural crop	1	1	ON/OFF	21.01.2020	3	-	2	-	20	-	25	0	25
INM	INM in Fruit & vegetable crops	1	1	ON/OFF	14.02.2020	2	-	3	-	20	-	25	0	25
Export potential Fruit	Scientific Cultivation of Broccole and Sproufig	1	1	ON/OFF	13.03.2020	3	-	2	-	20	-	25	0	25
Production of crop	Scientific cultivation of summer vegetable	1	1	ON/OFF	03.03.2020	5	-	-	-	20	-	25	0	25
Cultivation of Vegetable	Scientific Cultivation of Brinjal and Bhindi	1	1	ON/OFF	17.04.2020	3	-	2	-	20	-	25	0	25
Plant Propagation	Different methods of propagation	1	1	ON/OFF	27.05.2020	3	-	2	-	20	-	25	0	25
Nursery Raising	Nursery raising for summer vegetable	1	1	ON/OFF	04.06.2020	3	-	2	-	20	-	25	0	25
Layout and Management of Orchard	Establishment and management of new Orchard.	1	1	ON/OFF	14.07.2020	3	-	2	-	20	-	25	0	25
Protected	Cultivation of	1	1	ON/OFF	05.08.20	2	-	3	-	20	-	25	0	25

cultivation	Vegetable under shed net and poly tunnel.				20									
Cultivation of Cole's Crops	Scientific Cultivation of Cauliflower and Cabbage.	1	1	ON/OFF	13.08.2020	3	-	2	-	20	-	25	0	25
Disease management	IDM of vegetables	1	1	ON/OFF	16.09.2020	3	-	2	-	20	-	25	0	25
Cultivation of Fruits	Scientific cultivation of Tomato	1	1	ON/OFF	24.09.2020	5	-	-	-	20	-	25	0	25
Low volume high value crop	Cultivation of flower for income generation	1	1	ON/OFF	19.09.2020	3	-	2	-	20	-	25	0	25
Production Technology	Production and management for Medicinal, aromatic plants.	1	1	ON/OFF	22.10.2020	3	-	2	-	20	-	25	0	25
Seed production	Seed production techniques of potato	1	1	ON/OFF	29.10.2020	3	-	2	-	20	-	25	0	25
Production and management	Scientific cultivation of garlic and spices crops	1	1	ON/OFF	01.10.2020	5	-	-	-	20	-	25	0	25
Production of Medicinal and Aromatic Crops	Scientific cultivation of Medicinal and Aromatic Crops	1	1	ON/OFF	03.12.2020	5	-	-	-	20	-	25	0	25
Rural Youth														
Commercial fruit production	Scientific Cultivation of elephant fruit	1	4	ON/OFF	10-13.06.2020	3	1	1	-	20	-	24	1	25

Commercial fruit production	Production, care and Management of Banana	1	4	ON/OFF	23-26.06.2020	3	1	1	-	20	-	24	1	25
Seed Production	Seed Production of vegetables	1	4	ON/OFF	27-30.07.2020	3	1	2	-	19	-	24	1	25
Planting Material Production	Plant Propagation techniques of fruit crops	1	4	ON/OFF	21-24.09.2020	3	1	2	1	19	-	24	2	26
Nursery Management	Nursery management of vegetable crop and poly tunnel technology	1	4	ON/OFF	15-18.07.2020	3	1	1	-	20	-	24	1	25
Protected cultivation	Protected cultivation of vegetable crops and Simla Mirch	1	4	ON/OFF	27-30.10.2020	3	1	2	-	19	-	24	1	25

Extension Functionaries

ICM	Package and practices of Jute	1	1	ON/OFF	27.03.2020	-	1	2	-	22	-	24	1	25
Planting Material Production	Plant Propagation techniques in fruit crop	1	1	ON/OFF	08.06.2020	2	1	2	-	20	-	24	1	25
Crop Production	Scientific Cultivation of Cauliflower	1	1	ON/OFF	20.07.2020	7	2	1	4	11	5	19	11	30
Protected cultivation	Protected cultivation of Tomato, Simla mirch, cucumber, garden pea	1	1	ON/OFF	03.08.2020	3	1	2	-	19	-	24	1	25

Care and manage fruit Orchard	Proper care and management of fruit Orchard	1	1	ON/OFF	29.09.2020	3	1	2	-	19	-	24	1	25
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4. Extension Education

Thematic Area	Title of Training	Qr. No.	Duration	Venue OFF/ On Campus	Tentative Date	Participants/Trainees								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Group Dynamics	Formation and management of SHGs/JIGS	1	1	ON/OFF	20.01.2020	8	2	1	4	8	2	17	8	25
Group Dynamics	Establishment and strengthening of Farmers Club	1	1	ON/OFF	28.01.2020	9	1	1	4	8	2	18	7	25
Leadership development	Leadership development for technology dissemination	1	1	ON/OFF	19.02.2020	8	2	1	4	8	2	17	8	25
Group Dynamics	Formation and management of SHGs/JIGS	1	1	ON/OFF	09.03.2020	9	1	1	4	8	2	18	7	25
PRA	Agro ecosystem analysis of adopted village	1	2	ON/OFF	15-16.04.2020	8	2	1	4	8	2	17	8	25
Group Dynamics	Formation and Management of SHGs/JIGS	1	1	ON/OFF	21.04.2020	9	1	1	4	8	2	18	7	25

Mobilization of social capital	Income generation activities among group members	1	1	ON/OFF	28.04.2020	8	2	1	4	8	2	17	8	25
Entrepreneurial development of farmers/youths	Entrepreneurship Development through poultry	1	1	ON/OFF	04.05.2020	9	1	1	4	8	2	18	7	25
WTO and IPR issues	Awareness and use of market intelligence	1	2	ON/OFF	04-05.06.2020	8	2	1	4	8	2	17	8	25
Production Technology	DSR	1	1	ON/OFF	09.06.2020	9	1	1	4	8	2	18	7	25
Entrepreneurial development of farmers/youths	Entrepreneurship Development through Beekeeping	1	1	ON/OFF	18.06.2020	8	2	1	4	8	2	17	8	25
Production technologies	Productivity enhancement of field crops	1	1	ON/OFF	19.08.2020	8	2	1	4	8	2	17	8	25
Group Dynamics	Formation and management of SHGs/JIGS	1	1	ON/OFF	25.09.2020	9	1	1	4	8	2	18	7	25
Group Dynamics	Formation and Management of SHGs/JIGS	1	1	ON/OFF	12.10.2020	8	2	1	4	8	2	17	8	25
Entrepreneurial development of farmers/youths	Entrepreneurship Development through poultry	1	1	ON/OFF	07.12.2020	9	1	1	4	8	2	18	7	25

Rural Youth

Entrepreneurial development of farmers/youths	Entrepreneurship Development through fisheries	1	4	ON/OFF	03-06.08.2020	8	2	1	4	8	2	17	8	25
Entrepreneurial development of farmers/youths	Entrepreneurship Development through dairy	1	4	ON/OFF	14-17.09.2020	9	1	1	4	8	2	18	7	25
Entrepreneurial development of farmers/youths	Entrepreneurship Development through Beekeeping	1	4	ON/OFF	21-24.09.2020	8	2	1	4	8	2	17	8	25
Entrepreneurial development of farmers/youths	Entrepreneurship Development through Beekeeping	1	4	ON/OFF	03-06.11.2020	8	2	1	4	8	2	17	8	25
Entrepreneurial development of farmers/youths	Entrepreneurship Development through Poultry	1	4	ON/OFF	24-27.11.2020	9	1	1	4	8	2	18	7	25
Entrepreneurial development of farmers/youths	Entrepreneurship Development through fisheries	1	1	ON/OFF	21-24.12.2020	8	2	1	4	8	2	17	8	25

Extension Functionaries

Formation and Management of SHGs	Formation and Management of kisan club and SHGs and JLGS	1	1	ON/OFF	13.03.2020	7	2	1	4	11	5	19	11	30
Leadership development	Leadership development for Agro tech dissemination	1	1	ON/OFF	15.07.2020	8	2	1	4	11	4	20	10	30
Information networking among farmers	ICT practices for information and networking among farmers	1	1	ON/OFF	16.10.2020	7	2	1	4	11	5	19	11	30
Entrepreneurial development of farmers/youths	Entrepreneurial development of farmers/youths	1	1	ON/OFF	10.11.2020	8	2	1	4	11	4	20	10	30

5. Soil Science

Thematic Area	Title of Training	Q r. N o .	Dur ation	Venue OFF/On Campus	Tentative Date	Participants/Trainees								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Soil and water testing	Methods of soil sampling and analysis	1	1	ON/OFF	09.01.2020	8	2	2	-	14	-	24	2	26
Production and use of organic inputs	Vermi compost Production techniques, and its use in crops and cropping system Technique	1	1	ON/OFF	13.02.2020	8	2	1	4	8	2	17	8	25
Production and use of organic inputs	Methods of Bio fertilizer production and its uses	1	1	ON/OFF	12.03.2020	9	1	1	4	8	2	18	7	25
Soil fertility management	Fertilizer management in Paddy	1	1	ON/OFF	24.04.2020	9	1	1	4	8	2	18	7	25
Micro nutrient deficiency in crops	Micro nutrient deficiency symptoms and its management in crops	1	1	ON/OFF	21.05.2020	8	2	1	4	8	2	17	8	25
INM	INM in Paddy	1	1	ON/OFF	25.06.2020	9	1	1	4	8	2	18	7	25
INM	INM in Maize	1	1	ON/OFF	20.08.2020	9	1	1	4	8	2	18	7	25
Nutrient use efficiency	Soil & Crop management practices to increase NUE	1	1	ON/OFF	15.09.2020	8	2	1	4	8	2	17	8	25
Organic farming	To develop knowledge and understanding of organic farming	1	1	ON/OFF	12.10.2020	9	1	2	3	8	2	19	6	25

Soil and water testing	Soil health Management in crops on Soil test basis	1	1	ON/OFF	10.11.2020	9	1	2	3	8	2	19	6	25
Soil fertility Management	Fertilizer management in Boro paddy	1	1	ON/OFF	21.10.2020	8	2	1	4	8	2	17	8	25
Rural Youth														
Bio-fertilizer production	Bio-fertilizer production marketing	1	4	ON/OFF	13-16.05.2020	9	1	1	4	8	2	18	7	25
Vermi-compost production	Vermi-compost production and marketing	1	4	ON/OFF	21-24.07.2020	7	2	1	4	8	3	16	9	25
Vermiculture	Vermi composting for income generation	1	4	ON/OFF	22-25.09.2020	7	2	1	4	8	3	16	9	25
Bio-fertilizer production	Bio-fertilizer production Techniques & marketing	1	4	ON/OFF	19-22.10.2020	9	1	1	4	8	2	18	7	25
Organic manures production	Organic manures production techniques & marketing	1	4	ON/OFF	9-12.11.2020	9	1	1	4	8	2	18	7	25
Extension Functionaries														
INM	Green manuring and use of bio fertilizer	1	1	ON/OFF	19.03.2020	8	2	1	4	11	4	20	10	30
Soil and Water Testing	Methods of soil sampling and analysis	1	1	ON/OFF	05.05.2020	7	2	1	4	11	5	19	11	30
INM	INM in crops and cropping system	1	1	ON/OFF	01.07.2020	7	2	1	4	11	5	19	11	30

Production and use of organic inputs	Methods of vermi compost Production and its use in crops	1	1	ON/OFF	17.10.20 20	8	2	1	4	11	4	20	10	30
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13. Frontline demonstration to be conducted 2020

Sl. No	Season	Crop	Variety	Area in ha.	No. of Demonstration
1	Kharif	Jute	Seed JRO-8432	8	20
2	Kharif	Paddy	Sabour Shree	04	10
3	Kharif	Paddy & Biofertilizer	Sabour Ardhjal, Azotobactor & PSB	04	10
4	Kharif	Brinjal	PH-6	01	10
5	Kharif	Bottle Gourd	Narendra Rashmi	01	10
6	Kharif	Cauliflower	Sabour Agrim	01	10
7	Kharif	Sorghum	CSV-33MF	04	10
8	Rabi	Women Empowerment	Consumption pattern of drumstick leaves in the diet of Adolescent girl, Pregnant women to protect against anemia	0	25
9	Rabi	Enterprise development	Oyster mushroom	0	25
10	Rabi	Wheat/Bio-fertilizer	Sabour Shrestha, Azotobactor & PSB	04	10
11	Rabi	Wheat	Sabour Shrestha	04	10
				31	150

Frontline demonstration to be conducted*

Crop: Paddy
Thrust Area: Development of need based efficient and profitable cropping system
Thematic Area: ICM
Season: Kharif
Farming Situation: Paddy- Wheat/ Maize

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.	Paddy / Sabour Shree	4.0	seed	Grain Yield, B:C ratio	Seed			2	1	2	1	2	2	6	4	10

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	Scientific Cultivation of Paddy	1	PF	01	OFF	3	0	2	0	20	0	25	0	25
Field day	Agronomic Package of practices of Paddy crop	1	PF	01	OFF	6	0	4	0	40	0	50	0	50

Frontline demonstration to be conducted*

Crop: Paddy
Thrust Area: Development of need based efficient and profitable cropping system
Thematic Area: ICM
Season: Kharif
Farming Situation: Paddy- Wheat/ Maize

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.	Paddy / Sabour Ardhajal, Biofertilizers (Azo + PSB)	4.0	seed	Grain Yield, B:C ratio	Seed, Biofertilizers (Azo + PSB)			2	1	2	1	2	2	6	4	10

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	Scientific Cultivation of Paddy	1	PF	01	OFF	3	0	2	0	20	0	25	0	25
Field day	Agronomic Package of practices of Paddy crop	1	PF	01	OFF	6	0	4	0	40	0	50	0	50

Frontline demonstration to be conducted*

Crop: Brinjal
Thrust Area: Identification & Popularization of good quality vegetable seeds
Thematic Area: Vegetable Production
Season: Kharif
Farming Situation: Vegetable-Vegetable

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.	Brinjal PH-6	01	10	Productivity	Seed													10

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	Scientific Cultivation of Brinjal	01	PF	01	OFF	3	2	3	2	10	5	16	9	25
field day	Assessment of Brinjal Production	01	PF	01	OFF	6	4	6	4	20	10	32	18	50

Frontline demonstration to be conducted*

Crop: Bottle gourd
Thrust Area: Identification & Popularization of good quality vegetable seeds
Thematic Area: Vegetable Production
Season: Kharif
Farming Situation: Vegetable-Vegetable

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.	Bottle Bourd Narendra Rashmi	01	10	Productivity	Seed							10			10	0		10

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	Scientific Cultivation of Bottle Bourd	01	PF	01	OFF	3	2	3	2	10	5	16	9	25
Field day	Assessment of Bottle Bourd Production	01	PF	01	OFF	6	4	6	4	20	10	32	18	50

Frontline demonstration to be conducted*

Crop: Cauliflower
Thrust Area: Identification & Popularization of good quality vegetable seeds
Thematic Area: Vegetable Production
Season: Rabi
Farming Situation: Vegetable-Vegetable

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.	Cauliflower Sabour agrim	01	10	Productivity	Seed							10		10			10

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	Scientific Cultivation of Cauliflower	01	PF	01	OFF	3	2	3	2	10	5	16	9	25
field day	Assessment of Cauliflower Production	01	PF	01	OFF	6	4	6	4	20	10	32	18	50

Frontline demonstration to be conducted*

Crop: JUTE
Thrust Area: Management of Jute, Banana and Makhana based cropping system
Thematic Area: ICM
Season: Zaid
Farming Situation: Jute-Paddy

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.	Jute/ JRO-8432	10	Seed	Fibre Yield,	Seed			03	02	05	05	05	05	13	12	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	Training on Jute Production	01	PF	02	ON	3	0	2	0	20	0	25	0	25
Field day	Crop Condition of Jute(JRO-204)	02	PF	01	OFF	6	0	4	0	40	0	50	0	50

Frontline demonstration to be conducted*

Crop: Sorghum
Thrust Area: Emphasis on Fodder requirement
Thematic Area: Fodder Production
Season: Kharif
Farming Situation: Paddy/Fodder-Maize/ Wheat

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) relation in 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.	Sorghum / CSV-33MF	4	Seed & Literature	Multi cut Yield, Leaf Stem Ratio, Tolerance to Water Stress and Water Lodging Condition, Yield	Seed			02	00	1	1	4	02	10	0	10

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	Training on Fodder Production	01	PF	02	ON	3	0	2	0	20	0	25	0	25
Field day	Crop Condition & yield of Sorghum(CSB33MS)	02	PF	01	OFF	6	0	4	0	40	0	50	0	50

Frontline demonstration to be conducted*

Crop: Mushroom
Thrust Area: Mushroom Production
Thematic Area: Income Generation
Season: Rabi
Farming Situation: Irrigated

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	Loc al	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1.	Mushroom	25 unit	Spwan, Polythene bag, Bevistin, Rope,Etc.	Yield of Mushroom	Spwan, Polythene bag, Bevistin, Rope,Etc.			-	3	0	2	0	20	0	15	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	Mushroom cultivation and its importance	01	PF	01	OFF	3	2	3	2	10	5	16	9	25
Field day	yield Assessment of Mushroom	01	PF	01	OFF	6	4	6	4	20	10	32	18	50

Frontline demonstration to be conducted*

Crop/ Enterprise : Women Empowerment
Thrust Area: Household food Security
Thematic Area: Nutritional security
Season: Kharif/ Rabi
Farming Situation: Irrigated

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	Loca l	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1.	Women Empowerment	25	Consumption pattern of drum leaves in the diet of adolescent girls, Pregnant women to protect against anemia	Heamoglobin ,Grip strength, enhancement in working efficiency				0	5	0	10	-	10	-	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 Nutritional Kitchen gardening and management	01	PF	01	OFF	3	2	3	2	10	5	16	9	25
Field day	Assessment Women Empowerment	01	PF	01	OFF	6	4	6	4	20	10	32	18	50

Frontline demonstration to be conducted*

Crop: Wheat
Thrust Area: Development of need based efficient and profitable cropping system
Thematic Area: ICM
Season: Rabi
Farming Situation: Paddy- Wheat/ Maize

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.	Wheat / Sabour Shrestha	4.0	Seed	Grain Yield, B:C ratio	Seed			2	1	2	1	2	2	6	4	10

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	Scientific Cultivation of wheat	1	PF	01	OFF	3	0	2	0	20	0	25	0	25
Field day	Agronomic Package of practices of wheat crop	1	PF	01	OFF	6	0	4	0	40	0	50	0	50

Crop: Wheat/Bio-fertilizer
Thrust Area: Adoption of Integrated Nutrient Management for sustainable agriculture
Thematic Area: INM
Season: Rabi
Farming Situation: Paddy-Wheat/maize

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	Wheat & Sabour Shrestha / Bio-fertilizers	04 ha	25	Plant height, Tillers, Grain Yield, Straw yield, B:C ratio	Seed			1	0	1	0	8	0	10	0	
					Bio-fertilizers											

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	Impact of bio-fertilizers on wheat yield	1	PF	1	ON/OFF	3	0	2	0	20	0	25	0	25
Field Days	Asses the bio-fertilizers on wheat yield	1	PF	1	OFF	6	0	4	0	40	0	50	0	50

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.)(including man power)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	Sabour Shree C/S	July to Oct 2020	4.0	Seed	100	1,60,000.00	370000	2,10,000
Wheat	Sabour Shrestha	Nov to April 2020-21	4.4	Seed	105	1,32,000.00	4,20,000	2,88,000

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.)

14. Extension Activities

Extension Activities

Name of Extension Activities	No.	Participants
Field Day	15	350
Kisan Mela	1	500
Kisan Ghosthi	5	250
Kisan Chaupal	20	500
Exhibition	1	100
Film Show	6	150
Method Demonstrations	1	75
Farmers Seminar	1	50
Workshop	1	150
Group meetings	5	200
Scientific visit to farmers field	50	250
Farmers visit to KVK	500	500
Diagnostic visits	10	150
Exposure visits	1	50
Ex-trainees Sammelan	1	50
Soil health Camp	2	100
Animal Health Camp	2	150
Self Help Group Conveners meetings	8	150
Celebration of important days	5	300
Total	635	4025

15. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2019)	Amount proposed to be invested during 2020-21	Expected Return
1650072.09	2,92,000.00	4,98,000.00

16. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
GKMS	ICAR	17,00,000.00
BioTech Kisan Hub	ICAR	15,00,000.00
BSDM	BAMETI	6,00,000.00
Kisan Chaupal	Bihar Government	5,20,000.00

17. On-farm trials to be conducted*
ON FARM TRIAL (2020-21)

OFT-1 Agronomy

1.	Title of On farm Trial	Weed management in jute
2.	Problem diagnosed	Weed causes huge reduction (upto 70 %) in fibre yield of jute as it reduces input efficiency, interferes with agricultural operations and impairs quality and acts as alternate hosts for several insects and pests
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO₁ : Farmers Practice (one hand weeding at 25-30 DAS) TO₂ : Pendimethaline 30% EC @ 525gm a.i./ha (within 48 hours of sowing) + one hand weeding at 15 DAS TO₃ : Quizalofop ethyl 5 % EC @ 600 gm a.i./ha + Ethoxy sufuron 15% WDG @ 50 gm a.i./ha at 15 DAS + one hand weeding at 30 DAS
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	JRS, Katihar
5.	Production system and thematic area	Jute-Maize/ Mustard and Weed management
6.	Performance of the Technology with performance indicators	(i) Weed biomass(gm/m²) at 15 DAS, 35 DAS and 45 DAS (ii) Plant height (cm), basal diameter (cm) (iii) Fiber yield (q/ha) (iv) Gross return (Rs./ha), net return (Rs./ha), B:C ratio
7.	Design	RBD
	Plot Size	0.1 ha
	Replication	10
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

OFT (Agronomy)

1.	Title of On farm Trial	To assess the mitigation of cold injury of Boro Paddy in nursery
2.	Problem diagnosed	Cold injury of Boro Paddy in nursery limiting the yield potential due to low germination, slow growth, leaf yellowing and stunted growth
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO₁: Farmers Practice (No efforts for preventing cold injury in nursery) TO₂: Recommended dose of N & K (1.0 kg N & 1.0 kg K₂O/100 m² area) + double dose of P₂O₅ (2.0 kg P₂O₅/100 m² area) TO₃: TO₂ + irrigating nursery in morning and let out water in evening
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	A.N.G.R.A.U, Hyderabad
5.	Production system and thematic area	Paddy-Maize/ Mustard Nursery management
6.	Performance of the Technology with performance indicators	(i) Root length (cm) at 15 DAS, 30 DAS (ii) Shoot length (cm) at 15 DAS, 30 DAS (iii) Seedling height (cm) at 15 DAS, 30 DAS
7.	Design	RBD
	Plot Size	0.10 ha
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

OFT – 1: Soil Science

Title	Assessment of Boron and Molybdenum on Growth, Yield and Quality of Cauliflower (<i>Brassica oleracea</i> L. var. botrytis)
Thematic Area	Integrated Nutrient Management
Problem diagnosed	Death of young leaves, stem becomes hollow with the cavity surrounded by water soaked tissues and some curds change to rusting brown in Mo & B deficient Soil.
Important Cause	Hollow Heart diseases
Production system	Vegetable- Vegetable based production system.
Micro farming system	Vegetable- vegetable
Technology for Testing	Assessment of Boron and Molybdenum in Cauliflower
Existing Practice	Farmers practice
Hypothesis	Improve Farmer income
Objective	To management of Hollow Heart Disease of Cauliflower
Treatments	TO ₁ – Farmer Practices (180:40:20 :: N:P:K) TO ₂ – 120:60:60 :: N:P:K) + 20 t/ha FYM TO ₃ – 120:60:60 :: N:P:K) + 20 t/ha FYM + 20 kg/ha Borex and 2 kg/ha Mo
Critical Inputs	Seed, Nutrients, chemicals
Unit Size	0.10 ha
No of Replications	10
Monitoring Indicator	Technical Observation: Initial and Final Soil Nutrient Status, Plants growth and yield attributes {Days after 50 % Curd Initiation(DACI), Days after 50 % Curd Maturity (DACM), Curd Maturity Duration (CMD), Marketablecurd weight (g), Curd length (cm), Plant height (cm), Curd diameter (cm), Yield of marketable curd(t ha ⁻¹) } Economic Indicators: Net return, B:C ratio
Source of Technology	IIVR Varanasi

Title	Assessment the liquid and carrier based bio-fertilizers on performance of transplanted rice and soil properties
Thematic Area	Integrated Nutrient Management
Problem diagnosed	Less uses of bio-fertilizers and deficient of soil properties
Important Cause	Higher doses of urea application
Production system	Rice based production system.
Micro farming system	Rice-Wheat-Green gram
Technology for Testing	Assessment of Liquid bio-fertilizers in Paddy
Existing Practice	Farmers practice
Hypothesis	Application of liquid fertilizers may increase the yield of rice & improve the soil health.
Objective	To improve rice yield and soil health.
Treatments	TO ₁ : Farmers Practice (150:20:10 :: N:P:K with minimum uses of bio-fertilizers) TO ₂ : RDF [120:60:40] (80% of N +80 % of P + 100% of K) + Soil application of liquid bio-fertilizer (750 ml/ha Liquid azotobactor + 750 ml/ha Liquid PSB) TO ₃ : RDF [120:60:40] (80% of N +80 % of P + 100% of K) + Soil application of bio-fertilizer (5kg/ha azotobactor + 5kg/ha PSB)
Critical Inputs	Seed, Bio-fertilizers and Fertilizer
Unit Size	0.10 ha
No of Replications	10
Unit Cost	
Total Cost	
Monitoring Indicator	Technical Observation: Initial and Final Soil Nutrient Status, plant growth and yield attributes (Height (cm), Number of tillers/hill, Number of Panicles/m ² , 1000 Grain Weight), Yield (q/ha) Economic Indicators: Net return, B:C ratio
Source of Technology	BAU, Sabour

OFT – 3: Soil Science

Title	Evaluation of Azolla and BGA on rice yield and soil health.
Thematic Area	Integrated Nutrient Management
Problem diagnosed	Poor soil fertility status in soil.
Important Cause	Low rice yield due poor soil fertility status. N (180-230 kg/ha) P (7.6-10.2 kg/ha) K (110-118 kg/ha)
Production system	Rice based production system.
Micro farming system	Rice-Wheat-Green gram
Technology for Testing	Application of Azolla and BGA in low land rice field.
Existing Practice	No application of BGA and Azollain rice field.
Hypothesis	Application of BGA and Azollamay increase the yield of rice & improve the soil health.
Objective	To improve rice yield and soil health.
Treatments	TO ₁ : Farmers' Practice (96:56:16 kg/ha N:P ₂ O ₅ :K ₂ O) TO ₂ : FP+BGA @ 10 kg/ha TO ₃ : RDF 75% N (90:60:40 kg/ha N:P ₂ O ₅ :K ₂ O)+BGA@ 10Kg/ha TO ₄ : RDF 75%N (90:60:40 kg/ha N:P ₂ O ₅ :K ₂ O)+ Azollz@10ton/ha
Critical Inputs	Seed, Liquid fertilizers and Fertilizer
Unit Size	0.10 ha
No of Replications	10
Monitoring Indicator	Technical Observation: Initial and Final Soil Nutrient Status, plant growth and yield attributes (Height (cm), Number of tillers/hill, Number of Panicles/m ² , 1000 Grain Weight), Yield (q/ha) Economic Indicators: Net return, B:C ratio
Source of Technology	BAU, Sabour

OFT – 4: Soil Science

Title	Evaluation of ST-TY (Soil Test Targeted Yield) based on nutrient management in Jute
Thematic Area	Integrated Nutrient Management
Problem diagnosed	Low yield due to imbalance application of nutrients
Important Cause	Injudicious Uses of Fertilizer
Production system	Jute-Mustard based production system.
Micro farming system	Jute-mustard- rice
Technology for Testing	STTY
Existing Practice	Farmers practice
Hypothesis	Targeted yield (35 qtha ⁻¹)
Objective	Improve the area of jute
Treatments	TO ₁ – Farmer Practices (23:20:15 :: N:P:K) TO ₂ – ST-TY (35 q/ha) = 123:49:27:: N:P:K TO ₃ - ST-TY (35 q/ha) = 83:35:19:: N:P:K + FYM @ 5 t/ ha
Critical Inputs	Seed, Nutrients, chemicals
Unit Size	0.10 ha
No of Replications	10
Unit Cost	
Total Cost	
Monitoring Indicator	Technical Observation: Initial and Final Soil Nutrient Status, Plants growth and fiber yield attributes (Height (cm), Diameter of tillers), , fiber Yield (q/ha) Economic Indicators: Net return, B:C ratio
Source of Technology	BAU, Sabour

OFT -1 Horticulture

S.N.	Topic	Description
1.	Title	Enhancement of fruit set and reduction in fruit drop through foliar application of Boron and Sorbitol in Mango
2.	Problem Diagnose	Minimum the fruit set and maximum fruit drop as well as low fruit yield
3.	Detail the technology selected for assessment / refinement	Technology Option Farmers Practice- No Spray TO ₁ - Boric Acid (B0.02%) TO ₂ - Boric Acid (B0.02%)+ Sorbitol(2.0 % fine sorbitol) *when 50 % of the flowers on the inflorescence bloomed.
4.	Source of technology	BAU, Sabour and AICRP on Fruits, Bangaluroo
5.	Replication	07
6.	Technical indicator	<ol style="list-style-type: none"> 1. Date of First Fruit set 2. Fruit drop(%) 3. No. of the fruit/plants 4. Average fruit weight 5. Fruit yield (t/ha) 6. Benefit Cost Ratio

OFT -2 Horticulture

S.N.	Topic	Description
1.	Title	Measures to management of Panama Wilt of Banana.
2.	Farming Situation	Irrigated
3.	Hypothesis formulated	Suitable plant protection technique reduces yield loss due to disease.
4.	Experiment Design	RBD
5.	Detail the technology selected for assessment / refinement	<p>Technology Option</p> <p>TO₁- Carbendazim 50WP @3g/ liter of water (Drenching the soil near root zone at 15 days interval for three times in standing crop)</p> <p>TO₂- Application of Trichodermaharzianum @ per liter of water (Drenching the soil near root zone at 15 days interval for three times in standing crop)</p> <p>TO₃- Mass multiplication of trichoderma with FYM (Trichodermaharzianum1 Kg + FYM 50 Kg) applied near root zone of the plants @ 250 g per plant at one month interval for four times.</p> <p>TO₄- Mass multiplication of trichoderma with compost (Trichodermaharzianum 1 Kg + decomposed banana pseudo stem 50 Kg) applied near root zone of the plants @ 250 g per plant at one month interval for four times.</p>
6.	Replication	BAU, Sabour
7.	Plot Size	0.4 ha
8.	Observation Parameter	<ol style="list-style-type: none"> 1. Disease (%) 2. Yield q/ha 3. B:C ratio
10.	Critical Input	Fungicide (Carbendazim 50WP) & Bio – agents

Field Study-1 Extension Education

Field Study 1. Assessment of knowledge gain by farmers in respect to paddy production technology through whats App messages.	
Problem Diagnose	Lack of Technical knowledge for farmers as per need
Thematic Area	Information communication technology
Detail of technology	Farmers participated in whats App group
Farmers Practices(T_1)	Existing agricultural technical knowledge
Recommended Tech(T_2)	KVK Whats App messages
Performance parameter	<ol style="list-style-type: none"> 1. Need and time based information. 2. Use of soil Health Card 3. Application of the whats App messages 4. Knowledge gain by the farmers 5. Selection of variety 6. Weed Management 7. Insect Pest Management 8. Harvesting 9. Yield 10. Marketing

Field Study -2 Extension Education

Field study II Study on awareness and perception of farmers regarding Soil Health Card	
Problem Diagnose	Farmers unawareness about soil health card
Thematic Area	Soil fertility Management
Detail of technology	Production technologies
Farmers Practices(T_1)	Farmers not using Soil Health card (100 farmers)
Recommended Tech(T_2)	Farmers using soil health card (100 farmers)
Performance parameter	<ol style="list-style-type: none"> 1. Difficulty in calculating fertilizer dose on the basis of nutrient status of soil 2. Time gap between soil samples taken & issuing cards was too high 3. Received SHC after crop harvest 4. Collection of soil sample was not done in presence of farmer 5. Inability to understand all the information given in the card 6. Use of fertilizers Pattern 7. Use of Micronutrients Pattern 8. Increase in Productivity

18. 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	GKMS	17,00,000.00
2	BioTech Kisan Hub	15,00,000.00
3	BSDM	6,00,000.00
4	Kisan Chaupal	5,20,000.00

19. No. of success stories proposed to be developed with their tentative titles - 05

- 1) Beekeeping
- 2) Mushroom Production
- 3) Vermi Compost Production
- 4) Pulse Production
- 5) High Value crop Cultivation (Dragon fruit , Strawberry, etc)

20. Scientific Advisory Committee

Date of SAC meeting held during 2019-20	Proposed date during 2020-21
26.07.2019	15-12-2020

21. 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		
pH, ECe, OC, N, P, K, Ca, Mg, Na, CO ₃ , HCO ₃ , SO ₄ , Cl, Fe, Mn, Zn, B.	1000	-	-	-	-	-	-	900	100	1000	80	1000

22. Fund requirement and expenditure (Rs.)*

Item	Fund required for 2020-21
Pay & Allowance	1,25,00,000.00
Contingency	12,00,000.00
Equipment & furniture	10,00,000.00

* Any additional requirement may be suitably justified.

23. 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 ha per year due to the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Bee Keeping with improved technologies	<ul style="list-style-type: none"> • Italian Bee Keeping • Processing of honey at farmers group level • Marketing through group approach / FPO • Branding at farmer's end 	80,000-1,00,000	200-300	
2	Seed production through group approach	<ul style="list-style-type: none"> • Seed production technology transferred to farmers through training programme. • Seed provided to farmers during various FLD and CFLD and encourage them to keep and sell the produced seed to other farmers in the next season • Farmers are getting improved seed 	20,000-50,000	350-600	

3	Organic Farming Practices	<ul style="list-style-type: none"> • Uses of green manuring, FYM, Bio fertilizers, azolla for soil and crop health management. • Uses of low Cost organic Pesticides with the use of Cow Urine, dung & neem etc. • Uses of low cost nutrient management i.e. Jivamrit etc. 	60,000-70,000	700-800	
4	Microbial Consortium for improved retting of Jute	<ul style="list-style-type: none"> • This is consortium with microbial formulation used retting process of jute in stagnant water. • It can reduce the retting period by 5-7 days from conventional retting process • increase the yield by 15-20% • Improves quality of fibre by 1-2 grade point and ultimately increase farmer's income 	8,000-10,000	300-400	
5	Micro Irrigation in Banana	<ul style="list-style-type: none"> • It Shave water and energy • Less Labour require in a unit of land resulting minimising cost of cultivating • Less infesting of weeds Shane weeding cost • Minimise wilting 	70,000-80,000	300-400	

		<p>disease of banana</p> <ul style="list-style-type: none"> • Fruit quality improve as fruit weight long fruit size resulting income increase 			
6	Integrated Farming System	<ul style="list-style-type: none"> • Uses different synergic blending of Crop, Horticultural, Dairy, Fisheries, Poultry etc • Employment to other local farmers • Decrease cost of cultivation • Multiple uses of resource and providing much needed resilience for predicated climate change, scenario 	2,00,000	200-300	
7	Backyard poultry	<ul style="list-style-type: none"> • Rearing high yielding dual purpose breed like Vanraja (30 - 40 bird per unit) • Feeds uses for the purpose low cost locally available feed • Scientific management of poultry (proper vaccination and medication) 	20,000-30,000	200-300	

8	Mushrom Production	<ul style="list-style-type: none">• Income and Employment generation• provide food and nutritional security• Quick and high return	73000(one thousand Bags)	300-400	
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