Annual Action Plan

(JAN 2020 - DEC 2020)

Krishi Vigyan Kendra Manpur, Gaya

भाकृअनुप
ICAR

Directorate of Extension Education

Bihar Agricultural University, Sabour Bhagalpur

ACTION PLAN, 2020

GENERAL INFORMATION ABOUT THE KVK

Introduction:

Address	Telephone	E mail
Krishi Vigyan Kendra, Manpur, Gaya - 823003		kvkmanpurgaya@gmail.com

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

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

2. Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Senior Scientist& Head	Dr. Rajeev Singh	Senior Scientist & Head	Permanent	Others
2	Subject Matter Specialist	Dr. Ashok Kumar	SMS	Permanent	OBC
3	Subject Matter Specialist	Sri Devendra Mandal	SMS	Permanent	OBC
4	Subject Matter Specialist	Dr. Anil Kumar Ravi	SMS	Permanent	SC
5	Subject Matter Specialist			Vacant	
6	Subject Matter Specialist			Vacant	
7	Subject Matter Specialist			Vacant	
8	Programme Assistant	Smt. Neha	Prog. Asstt.(Lab. Tech.)	Permanent	OBC
9	Computer Programmer	Dr. Ved Prakash	Prog. Asstt. (Computer)	Permanent	OBC
10	Farm Manager	Sri Mukesh Kumar	Farm Manager	Permanent	OBC
11	Accountant/Superintendent	Sri Prem Kumar Thakur	Assistant	Permanent	OBC
12	Stenographer	Sri Patwardhan Kumar	Stenographer	Permanent	OBC
13	Driver	Sri Rohit Kumar	Driver	Permanent	OBC
14	Driver			Vacant	
15	Supporting staff	Smt. Laxami Devi	Supporting staff	(Outsource)	SC
16	Supporting staff	Sri Naulesh Kumar	Supporting staff	(Outsource)	SC

3. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1.2
2.	Under Demonstration Units	0.3
3.	Under Crops	5.0
4.	Orchard/Agro-forestry	1.7
5.	Others with details	1.8
	Total	**10.0 ha**

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

S. No.	Farming system/enterprise
1	Paddy - Wheat – Moong
2	Paddy – Lentil – Fallow
3	Paddy – Rai – Moong
4	Paddy – Sugarcane
5	Paddy – Potato - Vegetable
6	Maize – Potato – Vegetable
7	Dairy, Poultry, Bee keeping and Fishery are important enterprises adopted by selective farmers.

5. About District

DEMOGRAPHIC FEATURES	
Area (in ha.)	4976 sq. km
No. of Sub-Division	4
No. of Block	24
No. of Gram Panchayat	332
No. of Village	2680
Total Population	43,91 lakhs
Population Density (per sq. km.)	883
SC Population	
ST Population	
Sex Ratio	937
Literacy rate	54.8

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 – IIIB	Climate is subtropical having average annual rainfall 944 mm. June is the hottest month when temperature goes up to 49^0C while December is the coldest month when temperature goes down to 2^0C. Average Relative Humidity is 66%

Source:

7. Agro ecological situation

S. No	Agro ecological situation	Area (ha)	Characteristics
1	Irrigated Plain (Sandy-loam to loam soil)		The geographical area of the district is 493774 ha. Out of which Cultivable land is 198123 ha, comprising upland (49765 ha) medium land (110874ha) and low land (37484 ha). Major crop is paddy followed by wheat & vegetables. Among oil seeds & pulses rai, linseed, lentil, gram and red gram are important crops.
2	Rainfed Plain (Sandy Loam, Light to heavy texture Soil)		
3	Hilly Upland (Rainfed, Undulating topography)		

8. Soil types

S. No	Soil type	Characteristics	Area in ha
1	Sandy Loam	Admixture of sand & clay, predominantly sandy, found alongside the river beds	
2	Loamy soil	Found near the hills and formed by rains washings from higher area	
3	Sandy soil	Locally known as balui, found near the bank of the river	
4	Kewal Soil (Black)	It is a mixture of clay and loam and is very productive acidic in nature	
5	Foot hill Balthar Soil (Red)	It is in between the plain and dissected plateau. It is acidic in nature	

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

S. No	Crop	Area (ha)	Production (q)	Productivity (q/ha)
Kharif				
1.	Paddy	190955	640153	3352
2.	Maize	6763	6270	927
3	Marua	308	233	756
4	Arhar	4386	3874	883
5	Urad	1438	803	558
6	Moong	3223	1713	531
7	Kulthi	78	44	564
8	Groundnut	892	629	705
9	Til	956	529	55.3
10	Castor	89	43	483
11	Sunflower	86	50	581
Rabi				
1	Wheat	82729	142956	1728
2	Maize	2418	4531	1874
3	Barley	2328	1136	488
4	Gram	34823	17237	495
5	Lentil	20686	6247	302
6	Pea	3045	1248	410
7	Other Pulses			
8	Linseed	7071	3924	555
9	Rai/Sarson	12942	9344	722
10	Sunflower	161	94	582

10. Details of operational area / villages

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1		Manpur	Saraiya	Paddy, Wheat, Vegetable, flower, Goatry, poultry	Use of non-recommended Pesticide, Use of traditional varieties	High incidence of insect pest
2		Tekari	Mahmadpur	Paddy, Wheat, lentil, Rai, sugarcane, Potato	Lack of irrigation facilityUse of non-recommended Pesticide, Use of traditional varieties	-do-
3		Tankuppa	Barseema	Paddy, Wheat, Potato, Vegetables, Mushroom, Poultry, Dairy	-Use of non-recommended Pesticide, Use of traditional varieties	-do-

11. Priority thrust areas

S. No	Thrust area
1.	Introduction and popularization of improved varieties of cereals, pulses and oil seed crops.
2.	Seed production of cereals, oil seed & horticultural crops.
3.	To popularize improved cultivation techniques of different horticultural crops.
4.	Integrated nutrient management (INM) and pest management (IPM)
5.	Income and employment generation through Goatry, poultry, vermi-compost, dairy, beekeeping, mushroom cultivation & preservation of fruits & vegetable.
6.	Improvement of milch cattle through hybridization and proper care.

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

1. Crop Production

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														
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	Mar 2020	5	1	0	0	15	1	20	2	22
Soil fertility	Method of soil sampling	1	1	On/Off	April 2020	5	1	0	0	15	1	20	2	22
Nursery Management	Methods of nursery raising of rice	1	1	On/Off	June 2020	5	1	0	0	15	1	20	2	22
RCT	Cultivation Technique of Direct Seeded Rice	1	1	On/Off	June 2020	5	1	0	0	15	1	20	2	22
Crop Production	Cultivation technique of pigeon pea	1	1	On/Off	June 2020	5	1	0	0	15	1	20	2	22
Crop production	Cultivation technique of maize	1	1	On/Off	July 2020	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 2020	5	1	0	0	15	1	20	2	22
IWM	Integrated weed management in paddy	1	1	On/Off	Aug. 2020	5	1	0	0	15	1	20	2	22
INM	Integrated nutrient management in paddy	1	1	On/Off	Sep 2020	5	1	0	0	15	1	20	2	22
Crop production	Cultivation technique of wheat	1	1	On/Off	Oct 2020	5	1	0	0	15	1	20	2	22
Crop production	Cultivation technique of rapeseed and ustard	1	1	On/Off	Oct 2020	5	1	0	0	15	1	20	2	22
Crop	Cultivation technique	1	1	On/Off	Nov	5	1	0	0	15	1	20	2	22

production	of Lentil				2020									
IWM	Integrated weed management in wheat	1	1	On/Off	Dec 2020	5	1	0	0	15	1	20	2	22
	Total	**15**	**15**			**75**	**15**	**0**	**0**	**225**	**15**	**300**	**30**	**330**
Rural Youth														
INM	Training programme on INM for input dealers	1	15	ON	June 2020	8	1	0	0	19	2	27	3	30
Seed Production	Seed Production Technology in rice	1	4	ON	July 2020	5	1	0	0	15	1	20	2	22
Production of Organic Inputs	Methods of vermin compost production	1	4	ON	August 2020	5	1	0	0	15	1	20	2	22
Integrated Farming	Cultivation of aromatic and medicinal Plant	1	4	ON	Sept 2020	5	1	0	0	15	1	20	2	22
Seed Production	Seed Production Technology in Wheat	1	4	ON	Nov 2020	5	1	0	0	15	1	20	2	22
Production of Organic Inputs	Production techniques and uses of vermi composting	1	4	ON	Dec 2020	5	1	0	0	15	1	20	2	22
	Total	**6**				**33**	**6**	**0**	**0**	**94**	**7**	**127**	**13**	**140**
Extension Functionaries														
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
Integrated Nutrient Management	INM for sustainable paddy production	1	1	Off	June 2020	5	1	-	-	15	1	20	2	22
INM	Training programme on INM for input dealers	1	15	ON	July 2020	8	1	0	0	19	2	27	3	30
Productivity enhancement in field crops	Integrated Weed Management in Rabi crops	1	1	Off	Oct 2020	5	1	-	-	15	1	20	2	22
	Total	5	19			**28**	**5**	**0**	**0**	**79**	**6**	**107**	**11**	**118**

2. 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														
Formation and management of SHGs	Importance of SHGs in increasing income of farmers/farm women	2	1	OFF	Jan 2020	2	2	0	0	32	4	34	6	40
Capacity building	Increasing knowledge in vegetable seed production	2	1	OFF	Feb 2020	2	2	0	0	32	4	34	6	40
Capacity building	Increasing knowledge for cultivation of high value crops	2	1	OFF	Mar 2020	2	2	0	0	32	4	34	6	40
Entrepreneurial development	Increasing income of farmers through vermi-composting	2	1	OFF	Apr. 2020	2	2	0	0	32	4	34	6	40
Entrepreneurial development	Upliftment of socio-economic condition through beekeeping	2	1	OFF	May 2020	2	2	0	0	32	4	34	6	40
Entrepreneurial development	Entrepreneurship development in mushroom production	2	1	OFF	June 2020	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	July 2020	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	Aug. 2020	2	2	0	0	32	4	34	6	40

Information networking	Use of ICT in agriculture for increasing yield	2	1	OFF	Sep. 2020	2	2	0	0	32	4	34	6	40
Information networking	availability of markets for sale of their produce	2	1	OFF	Oct. 2020	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. 2020	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	Dec. 2020	2	2	0	0	32	4	34	6	40
	Total	**24**	**12**			**24**	**24**	**0**	**0**	**384**	**48**	**408**	**72**	**480**
Rural Youth														
Entrepreneurship development	Increasing income by means of mushroom production & its value addition	2	5	ON	July 2020	4	0	0	0	32	4	36	4	40
Beekeeping	Beekeeping as the means of developing entrepreneurship in agriculture	1	5	ON	Aug. 2020	2	0	0	0	16	2	18	2	20
Vermi-culture	Vermicomposting as the means of self employement	1	5	ON	Nov. 2020	2	0	0	0	16	2	18	2	20
	Total	**4**	**15**			**8**	**0**	**0**	**0**	**64**	**8**	**72**	**8**	**80**
Extension Functionaries														
Entrepreneurship development	Doubling income by means of mushroom production	1	2	ON	Jan 2020	3	2	0	0	18	2	21	4	25

3. Veterinary Science

Thematic Area	Title of Training	Qrt. No.	Duration	Venue	Tentative Date	Participants/Trainees								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Goat farming	Small scale goat farming	2	1	ON/ OFF	Apr 20/ Oct 20	8	6	0	0	20	6	28	12	40
Feed Management	Treatment of straw with urea	2	1	ON/ OFF	May 20/ Nov 20	8	6	0	0	20	6	28	12	40
Dairy Management	Clean milk production	2	1	ON/ OFF	Sep 20	8	6	0	0	20	6	28	12	40
Disease Management	Management of HS & BQ in dairy animals	2	1	ON/ OFF	May 20/ Jun 20	8	6	0	0	20	6	28	12	40
Poultry Management	Income generation through backyard poultry	2	1	ON/ OFF	June 20/ Dec 20	8	6	0	0	20	6	28	12	40
Disease Management	Management of infertility in dairy animals	2	1	ON/ OFF	Jul 20/ Jan 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	Jul 20/ Jan 21	8	6	0	0	20	6	28	12	40
Poultry Management	Management of commercial broiler	2	1	ON/ OFF	Aug 20/ Feb 21	8	6	0	0	20	6	28	12	40
Disease Management	Vaccination in cattle in poultry	2	1	ON/ OFF	Aug 20/ Feb 21	8	6	0	0	20	6	28	12	40
Feed Management	Fodder production round the year	2	1	ON/ OFF	Sep 20/ Mar 21	8	6	0	0	20	6	28	12	40
Disease Management	Management & vaccination of FMD in dairy animals	2	1	ON/ OFF	Nov 20/ Dec 20	8	6	0	0	20	6	28	12	40
Disease Management	Management of common diseases of goat	2	1	ON/ OFF	Oct 20/ Mar 21	8	6	0	0	20	6	28	12	40

	Total	**24**	**12**			**96**	**72**	**0**	**0**	**240**	**72**	**336**	**144**	**480**
Rural youth														
Dairying	Dairy Management	2	5	ON	Aug. 20, Mar 21	8	6	0	0	20	6	28	12	40
Goat rearing	Goat Management	2	4	ON	Jun 20 Feb 21	8	6	0	0	20	6	28	12	40
	Total	**4**	**9**			**16**	**12**	**0**	**0**	**40**	**12**	**56**	**24**	**80**
Extension Functionaries														
Dairying	Scientific management of dairy animals	1	1	ON/OFF	Dec, 20	3	5	0	0	5	7	8	12	20

4. Horticulture

Thematic area	**Title of Training**	**Quarter**	**Duration**	Venue	**Tentative Date**	**Participants**								
						SC/ST				**Other**		**Total**		
						M	F	M	F	M	F	M	F	**T**
Practicing Farmer														
Processing and value addition	Processing and value addition of tuber crop	1	1	On	07-03-20	0	5	0	0	0	15	0	20	20
IPM	Pest and disease management in horticultural crop	1	1	Off	07-05-20	4	0	0	0	14	2	18	2	20
Off-season vegetables	Production of off-seasonal vegetable to fetch good income	1	1	Off	22-07-20	5	0	0	0	15	0	20	0	20
Nursery raising	Quality nursery raising of vegetable for better income	1	1	On	25-07-20	5	0	0	0	15	0	20	0	20
Exotic vegetables like Broccoli	Production of exotic vegetable like broccoli, of good income	1	1	Off	30-09-20	5	0	0	0	15	0	20	0	20
Export potential vegetables	Production of organic and quality vegetable for export	1	1	Off	28-04-20	3	0	0	0	17	6	20	6	26
Protective cultivatio	Promotion of gladiolus and Gerbera in polly	1	1	On	26-09-20	5	0	0	0	15	0	20	0	20

n (Green Houses, Shade Net etc.)	house													
Others, if any (Cultivation of Vegetable)	Scientific cultivation of Rabi season vegetable	1	1	Off	28-08-20	5	0	0	0	15	0	20	0	20
Training and Pruning	Training and pruning of guava orchard	1	1	On	25-06-20	5	0	0	0	15	0	20	0	20
Cultivation of Fruit	Scientific cultivation of papaya	1	1	Off	18-09-20	5	0	0	0	15	0	20	0	20
Micro irrigation systems of orchards	Use of micro irrigation system of orchard	1	1	Off	24-11-20	5	0	0	0	15	0	20	0	20
Management of potted plants	Care and management of potted plants	1	1	On	21-05-20	5	0	0	0	15	0	20	0	20
Production and Management technology	Production and management technology of spices crop	1	1	On	30-07-20	5	0	0	0	15	0	20	0	20
Production and Management technology	Production and management technology of tuber crop	1	1	On	16-09-20	5	0	0	0	15	0	20	0	20
Production and Management technology	Production and management technology of medicinal and aromatic plants	1	1	Off	18-07-20	5	0	0	0	15	0	20	0	20
Rejuvenation of old orchards	Rejuvenation of old mango orchards	1	1	Off	29-11-20	5	0	0	0	15	0	20	0	20
	Total	**16**	**16**			**72**	**5**	**0**	**0**	**226**	**23**	**298**	**28**	**326**
Rural youth														
Extension Functionaries														
Protected cultivation technolo	Protected cultivation of off-seasonal crops	1	1	On	05-01-20	5	0	0	0	15	0	20	0	20

gy														
Rejuvenation of old orchards	Rejuvenation of old orchards	1	1	Off	18-08-20	5	0	0	0	15	0	20	0	20
Value addition	Processing and preservation of seasonal fruits and vegetables	1	1	On	18-11-20	0	5	0	0	0	15	0	20	20
	Total													

13. Frontline demonstration to be conducted* 2020

Sl. No	Season	Crop	Variety	Area in ha.	No. of Demonstration
1.	Kharif	Paddy	R. Shweta	4.0	10
2.	Kharif	Paddy	Sahbhagi	5.0	12
3.	Rabi	Wheat	Sabour Shrestha	5.0	12
4.	Rabi	Mushroom	Button	-	50
5.	Rabi	Cabbage	Hybrid	2.0	20
6.	Rabi	Green fodder	Makhan Grass	0.4	20
7.	Rabi	Livestock	Mineral mixture	-	20

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 (Sweta)	5	Single seedling	Yield data	Seed			4	1	-	-	4	1	8	2	10
2.	Paddy (Sahbhagi)	5	Single seedling	Yield data	Seed			4	1	-	-	4	1	8	2	10
3.	Wheat	10	ZT	Yield data	Seed			8	2	-	-	12	3	20	5	25
4.	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
5.	Cabbage/ Hybrid	2.0 ha	Seed	Yield, BCR	Seed	32000	26000	5	2	0	0	8	5	13	7	20
6.	Makhan Grass	0.1	Seed	Milk production/animal/day	Seed	6000	-	3	2	0	0	13	2	16	4	20
7.	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
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. HD 2967	1	Practicing farmer	1	Off	15	4	-	-	44	6	59	10	69
Training	Change in	1	20	1 day	ON	5	15	0	0	5	25	10	40	50

	behavior towards production technology of mushroom													
Training	Scientific cultivation of cabbage	1	20	1 day	ON	5	2	0	0	8	5	13	7	20
Field day	Field day	1	PF	1	Off	5	5	0	0	10	5	15	10	25
Field day	Field day	1	PF	1	Off	5	5	0	0	10	5	15	10	25

* Repeat the above tables and information in Point no. 4 for EACH FLD being proposed.

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.)**
Green gram	IPM 2-14	Apr to Jun 2020	2.0	F/S				
Paddy	R. Sweta	Jul to Nov 2020	4.5	C/S				
	S. Ardhjal	Jul to Oct 2020	0.5	C/S				
Wheat	HD 2967	Nov to Apr 2021	3.0	C/S				
	Sabour Shrestha	Nov to Apr 2021	2.0	C/S				

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

Nature of Extension Activity	No. of activities	Total		
		Male	Female	Total
Field Day	10	310	50	360
KisanMela	1	-		Mass
KisanGhosthi	40	725	110	835
Exhibition	1	-	-	mass
Film Show				
Method Demonstrations	6	63	12	75
Farmers Seminar				
Workshop	1	-		Mass
Group meetings				
Lectures delivered as resource persons	25	625	35	660
Advisory Services	500	400	100	500
Scientific visit to farmers field	100	70	30	100
Farmers visit to KVK	500	400	100	500
Diagnostic visits	10	40	15	55
Exposure visits	5	150	0	150
Ex-trainees Sammelan				
Soil health Camp				
Animal Health Camp	4	75	25	100
Agri mobile clinic				
Soil test campaigns				
Farm Science Club Conveners meet				
Self Help Group Conveners meetings				
MahilaMandals Conveners meetings				
Celebration of important days (specify)				
Any Other (Specify)				
Total	**1203**	**2858**	**477**	**3335**

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
19,65,102.85		

16. 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

17. On-farm trials to be conducted*

ON FARM TRIAL (2020-21)

OFT: 1 (Plant Protection)

1	**Title of On Farm Trial**	To access the suitable management of false smut on paddy
2	**Thematic Area**	Integrated disease management
3	**Details of Technologies selected for Assessment**	TO_1 – Farmer Practice - Seed treatment with carbendazim @ 2gm/kg seed TO_2 – Seed treatment with tricyclazone 75 wp @ 2gm/kg of seed followed by 2 spray of propyconazole 25 E.C. @ 2 ml/litre of water at the time of emergence of panicle and 2nd spray at panicle completely emerge. TO_3 –Two spray of chalorthalonil 75 WP @ 2 gm/litre of water at the time of emergence of panicle and 2nd spray at panicle completely emerge.
4	**Source of Technology**	Directorate of rice research, Hydrabad
5	**Performance Indicator**	Yield attributes, Yield, Disease incidence, Economics
6	**Replication**	10
7	**Production system and thematic area**	Rice-Wheat Production System Integrated disease management
8	**Constraints identified**	
9	**Process of Farmer Participation**	Training

Conducted by: Dr. Rajeev Singh

Associated by: Mr. Devendra Mandal & Dr. Ashok Kumar

OFT: 2 (Agronomy)

1	**Title of On Farm Trial**	To access the water soluble fertilizer NPK(18:18:18) for increasing productivity of lentil under rainfed condition of South Bihar.
2	**Thematic Area**	Integrated crop management
3	**Details of Technologies selected for Assessment**	Farmer Practice - (Use of 20:40:0Kg NPK/ha & No use of WSF) TO_1 – Basal application of 20:40:0kgNPK/ha +one spray of WSF NPK (18:18:18/ha) at 40DAS (1% NPK solution spray at 40DAS) TO_2 – Basal application of 20:40:0kgNPK/ha +Two split spray of WSF NPK(18:18:18/ha) at 40&60DAS (1% NPK solution spray with equal splitting at 40 & 60 DAS)
4	**Source of Technology**	NDUA&T , Ayodhya
5	**Performance Indicator**	Yield attributes, Yield, Economics
6	**Replication**	10
7	**Production system and thematic area**	Rice-lentil Production System & Integrated crop management
8	**Constraints identified**	
9	**Process of Farmer Participation**	Training & OFT

Conducted by: Dr. Rajeev Singh

Associated by: Mr. Devendra Mandal & Dr. Anil Kumar Ravi

OFT: 3 (Agronomy)

1	**Title**	Assessment of different cropping system in Gaya district
2	**Problem diagnosed**	Low profitability of Rice-Wheat cropping system
3	**Details of Technology**	TO_1 – Rice-Wheat-Fallow TO_2 –Rice-Wheat-Greengram TO_3 –Rice-Mustard-Greengram
4	**Source of technology**	ICAR-RCER, Patna
5	**No. of Farmers**	7
6	**Production system and TheamaticArea**	Rice-Lentil/wheat & Cropping system
7	**Constraints identified and Feedback of research**	
8	**Performance of Technology Performance Indicator**	Yield attributes, Net return, B:C ratio

9	**Process of Farmers Participation & their reaction**	Training & OFT

Conducted by: Mr. Devendra Mandal

Associated by: Dr. Ashok Kumar & Dr. Rajeev Singh

OFT: 4 (Agronomy)

1	**Title**	Assess the foliar application of potassium nitrate in late sown wheat for mitigation of terminal heat stress
2	**Problem diagnosed**	Low yield in late sown wheat due to terminal heat stress
3	**Details of Technology**	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
4	**Source of technology**	BAU, Sabour
5	**No. of Farmers**	7
6	**Production system and Thematic Area**	Rice-Wheat & ICM
7	**Performance of Technology with performance indicator**	Yield attributes, Net return, B:C ratio
8	**Final Recommendation for Micro level Situation**	
9	**Process of Farmers Participation and their reaction**	Training & OFT

Conducted by: Mr. Devendra Mandal

Associated by: Dr. Ashok Kumar, Dr. Anil kumar Ravi & Dr. Rajeev Singh

OFT : 5 (Extension Education)

1	**Title**	Assessment of effect of Bio-fertilizers on the yield performance of paddy
2	**Problem diagnosed**	Low productivity due to unavailability of sufficient nutrients
3	**Technological option**	Farmers Practice (FP): No bio-fertilizers used by the farmers Technology option-I (TO-I):Seed treatment with PSB + soil application of azotobactor @ 4-5 kg/ha Technology option-II (TO-II): Seed treatment with azotobactor + soil application of PSB @ 4-5 kg/ha Technology option-III (TO-III): Soil application of PSB @ 4-5 kg/ha + soil application of azotobactor @ 4-5 kg/ha
4	**Source of Technology**	BAU, Sabour

5	**Replication**	10
6	**Production system and thematic area:**	Paddy-Wheat-Green gram & Crop production
7	**Performance of the technology with performance indicators**	i. Plant height ii. No. of tillers/plant iii. No. of seed/spikelet iv. Yield (qtl/ha) v. Net Return (Rs/ha) vi. BCR
8	**Constraints identified**	
9	**Process of Farmer Participation**	Training & OFT

Conducted by: Dr. Ashok Kumar

Associated by: Mr. Devendra Mandal & Dr. Rajeev Singh

OFT-: 6 (Extension Education)

1	**Title**	Impact assessment of demonstration among different categories of farmers
2	**Problem diagnosed**	Low level of adoption of recommended package of practices of wheat resulting in its low yield
3	**Technological option**	Farmers Practice (FP): Existing local variety Technology option-I (TO-I):Improved variety given to marginal farmers Technology option-II (TO-II): Improved variety given to small farmers Technology option-III (TO-III): Improved variety given to medium + large farmers
4	**Source of Technology**	BAU, Sabour
5	**Replication**	10
6	**Production system and thematic area:**	Paddy-Wheat-Green gram & Crop production
7	**Performance of the technology with performance indicators**	i. Level of knowledge ii. Level of adoption iii. Yield (qt/ha) iv. BCR
8	**Constraints identified**	
9	**Process of Farmer Participation**	Training & OFT

Conducted by: Dr. Ashok Kumar

Associated by: Mr. Devendra Mandal & Dr. Rajeev Singh

OFT: 7 (Veterinary)

1	**Title**	Comparative assessment of hormone (GnRH) and mineral mixture supplement for improving postpartum anestrus in cattle
2	**Problem diagnosed**	Postpartum infertility in cattle
3	**Technological option**	Farmer Practice (FP) - Dewormer + Mineral Mixture @ 50 gm/day TOI – FP + Inorganic Phosphorus Inj. + Vitamin AD_3E 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
4	**Source of Technology**	BVC, Patna
5	**Replication**	10
6	**Production system and thematic area:**	Semi-intensive & Disease management
7	**Performance of the technology with performance indicators**	No. of animal came in heat, No. of animal pregnant,
8	**Constraints identified**	
9	**Process of Farmer Participation**	Training & OFT

Conducted by: Dr. Anil Kumar

Associated by: Dr. Rajeev Singh

OFT: 8 (Veterinary)

1	**Title**	Assessment of different preventive method of subclinical mastitis control in cattle.
2	**Problem diagnosed**	Reoccurring of sub clinical mastitis in cattle
3	**Technological option**	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
4	**Source of Technology**	Postgraduate institute of veterinary and animal Science, Akola
5	**Replication**	10
6	**Production system and thematic area:**	Semi-intensive & Disease management
7	**Performance of the technology with performance indicators**	Occurrence of subclinical mastitis tested by BTB strip
8	**Constraints identified**	
9	**Process of Farmer Participation**	Training & OFT

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	Biotech Kisan Hub	6.00 lakh
2	CSISA	1.60 Lakh
3	GKMS	4.80 Lakh
4	CRA Programme	48.0 Lakh

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

4 – Mushroom Production, IFS, Goatry & crop production

20. Scientific Advisory Committee

Date of SAC meeting held during 2019-20	Proposed date during 2020-21
05 Jan 2020	4 Aug 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		
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**

22. Fund requirement and expenditure (Rs.)*

Item	Fund required for 2020-21
Pay and Allowance	1,00,00,000.00
T.A.	1,50,000.00
HRD	50,000.00
Contingency	10,00,000.00
Capital	7,00,000.00
Vehicle	0.0
Total	**1,19,00,000.00**

* 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**

- ✓ 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%