Annual Action Plan (April 2018 - March 2019)

Krishi Vigyan Kendra Manpur, Gaya



Directorate of Extension Education



Bihar Agricultural University, Sabour Bhagalpur

- 1. Name of the KVK: KRISHI VIGYAN KENDRA, MANPUR, GAYA
- 2. Name of the host organization: B.A.U., SABOUR, BHAGALPUR, BIHAR
- 3. Training Programme to be organized (April 2018 March 2019)

(a) Practising farmer /Farm women

		Durati				nts
Thematic Area	Title	on	SC	ST	Other s	Tota l
	Crop Production					
Integrated Crop Management	Improved package of production for summer mongbean	1	4	-	21	25
Production of organic inputs	Importance of green manure crops for organic production system	1	5	-	20	25
Weed Management	Weed management in summer mongbean	1	4	-	21	25
Integrated Crop Management	Importance of deep summer ploughing to reduce pest population	1	3	-	22	25
Cropping Systems	Production technique for direct seeded rice	Name				
Resource Conservation Technologies	Different methods for recharging/conserving ground water	ferent methods for narging/conserving 1 2 - 23				
Nursery management	Technique for MAT type nursery raising in paddy	1	4	-	21	25
Nursery management	paddy nursery under					25
Integrated Crop Management	Production technique for kharif maize	1	4	-	21	25
Production of organic inputs	sustainable /organic crop production	1				
Productivity enhancement	Production technique for late sown wheat	1	4	-	21	25
Integrated Farming	IFS models for doubling farmers income	1	4	-	21	25
Nutrient management	Fertilizer and irrigation management in wheat	1	4	-	21	25
		13	50	-	275	325
	Home Science		T		T-	
Gender main streaming through SHGs	Capacity building of farm women through SHGs	1	3	-	22	25

Storage loss	Home scale method of Safe	1	5	_	20	25
minimization	grain storage					
Women & Child care	Management and preventive measures against malnutrition among children	1	1	-	24	25
Income generation	Different avenues of farm women entrepreneurship	1	5	-	20	25
Design and development of low/minimum cost	Nutritional upliftment by low cost locally available	1	4	-	21	25
diet Household food security by kitchen gardening	less familiar foods Nutrition garden to maintain food & nutrition security	1	4	-	21	25
Minimization of nutrients loss in processing	Prevention of nutrition loss during cooking process Mushroom production Post harvest management of Truits & vegetables Preparation of products From Amla Value addition of potato Value addition of potato 1					25
Income generation & empowerment of women	Mushroom production	1	3	-	22	25
Value addition	Post harvest management of fruits & vegetables	1	1	-	24	25
Value addition	Preparation of products from Amla	1	4	-	21	25
Value addition	Value addition of tomato	1	3	-	22	25
Value addition	Value addition of potato	1	3	-	22	25
Women and child care	Importance of nutrients and their deficiency management	1	1 3 - 22			
Women and child care	Adulteration in common food materials	1	5	-	20	25
Women and child care	Nutritional requirement for pregnant and lactating women	1	1	-	24	25
	Total	15	48	0	327	375
	Veterinary Science		1		I	
Dairy Management	Management of dairy animals during summer	1	5	-	20	25
Disease Management	HS & BQ in dairy animals	1	5	-	20	25
Disease Management	Vaccination schedule in dairy animals	1	5	-	20	25
Poultry Management	Income generation through backyard poultry	1	5	-	20	25
Poultry Management	Commercial broiler farming	1	5	-	20	25
Feed Management	Formulation of balanced ration	1	5	-	20	25
Goat farming	Small scale goat farming	1	5	-	20	25
Fodder production	Fodder production round the year	1	5	-	20	25
Disease Management	Management of common disease	1	5	-	20	25
Dairy Management	Clean milk production	1	5	-	20	25

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Dairy Management	Management of cattle in winter season	1	5	-	20	25
Disease Management	Infertility in dairy animals	1	5	-	20	25
Disease Management	Common disease of goat	1	5	-	20	25
Feed Management	Treatment of straw with urea	1	5	-	20	25
	Total	14	70	0	280	350
	Extension Education	n				
	socio- economic upliftment					
Group dynamics	through farmers group	1	2	-	18	20
	Farmers field school is the					
Group dynamics	need of the time for farmers	1	2	-	18	20
	Organic farming is the need		_			
Organic farming	of the time for farmers	1	2	-	18	20
	Use of electronic media for					
Information networking	market update	1	2	-	18	20
	availability of markets for					
Information networking	sale of farmers produce	1	2	-	18	20
	Capacity building of					
Capacity building	farmers & farm women for	1	2	_	18	20
Supacity building	seed production	•	_		10	20
	Capacity building for		_			
Capacity building	vegetable seed production	1	2	-	18	20
Formation and	Increasing income through					
management of SHGs	SHGs	1	1 2 - 18 1 2 - 18			20
Formation and	Doubling farmers income					
management of SHGs	through group formation	1	2	-	18	20
Gender mainstreaming	Gender mainstreaming by					
Gender manigereaming	means of group activities	1	2	-	18	20
Entrepreneurial	Generating income through					
development	vermicomposting	1	2	-	18	20
Entrepreneurial	Increasing income by means	1			4.5	• •
development	of value addition		2	-	18	20
Entrepreneurial	Entrepreneurship				4.5	• •
development	development in agriculture	1	2	-	18	20
	Total	13	26	0	234	260
	2000					

(b) Rural Youth

		Duratio No. of particip			participa	nts
Thematic Area	Title	n	SC	ST	Other s	Tota l
	Crop Production	l				
	Seed production techniques of					
Seed production	field crop	6	4	-	21	25
	(cereals/pulse/oilseed)					
	Total	6	4	-	21	25
	Extension Education	on				
Entrepreneurship development	Vermi composting is the means of developing entrepreneurship	6	2	-	18	20
Beekeeping	Doubling income through beekeeping	6	2	-	18	20
	Total	12	4	-	36	40
	Home Science					
Value addition	Fruits & vegetables processing	6	5	-	15	20
Entrepreneurship development	Mushroom production	6	3	-	17	20
	Total	12	8		32	40
	Veterinary Science	e		,		
Dairy Management	Dairy Management	5	5	-	20	25
Goatry Management	Goatry Management	4	5	-	20	25
	Total	9	10	-	40	50

(c) Extension Functionaries

		Duratio	N	o. of p	participa	Tota 1 25	
Thematic Area	Title	n	SC	ST	Other s	Tota l	
	Crop Production	1					
Productivity enhancement	Technical knowhow on 'App" based fertilizer	2	4	-	21	25	
Productivity enhancement	Package of practices for rabi crop production	2	3	-	22	25	
	Home Science	1					
Kitchen gardening & human health	Household food security by kitchen gardening	2	5	_	20	25	
	Veterinary Science	ee					
Dairy Management	Scientific management of dairy animal for improvement in milk production	2	5	-	20	25	
	Extension Educati	on					
Entrepreneurship development	Doubling income through vermicompost production	2	2	-	18	20	
Entrepreneurship development	Beekeeping is the means of increasing income	2	2	-	18	20	

Extension Activities 2018-19

Nature of	No. of		Farmers		Exte	nsion Off	icials		Total			
Extension Activity	activities	Male	Female	emale Total Male Female Total		Total	Male	Female	Total			
Field Day	10	300	50	350	10	-	10	310	50	360		
Kisan Mela	3	-	-	-	-	-	-	-	-	Mass		
Kisan Ghosthi /Kisan chaupal	40	700	100	800	25	10	35	725	110	835		
Exhibition	1	-	-	-	-	-	-	-	-	mass		
Method Demonstrations	6	60	10	70	3	2	5	63	12	75		
Workshop	1	-	-	-	-	-	-	-	-	Mass		
Lectures delivered as resource persons	25	600	20	620	25	15	40	625	35	660		
Newspaper coverage	30	-	-	-	-	-	-	-	-	Mass		
Radio talks	04	-	-	-	-	-	-	-	-	Mass		
TV talks	05	-	-	-	-	-	-	-	-	Mass		
Popular articles	03	-	-	-	-	-	-	-	-	Mass		
Extension Literature	05	-	-	-	-	-	-	-	-	-		
Advisory Services	500	400	100	500	-	-	-	-	-	500		
Scientific visit to farmers field	100	60	30	90	10	-	10	70	30	110		
Farmers visit to KVK	500	400	100	500	-	-	-	-	-	500		
Diagnostic visits	10	40	15	15	-	-	-	40	15	55		
Exposure visits	5	150	-	-	-	-	-	-	-	150		
Soil health Camp	5	-	-	-	-	-	-	-	-	mass		
Animal Health Camp	10	400	-	400	-	-	-	-	-	400		
Soil test campaigns	4	-	-	-	-	-	-	-	-	4		
Celebration of important days (specify)	10	-	-	-	-	-	-	-	-	mass		

Any Other										
(Specify)	-	-	-	-	-	-	-	-	-	-
Krishi Vikas										_
Utsav	-	-	-	-	-	-	_	-	- -	
Technical	1									1
bulletin	1	-	-	-	-	-	_	-	-	1
Total	1261	2820	425	3105	73	27	100	1833	252	3360

Action plan of FLD for the year 2018-19

(A) FRONT LINE (Cluster) DEMONSTRATION OILSEEDS AND PULSES (2018-19)

S. N.	Crop	Previous crop and cropping system			Farming situation		Ar ea	Variet y	Sowin g time	Technol ogy Demonst	Input of
		Summ er	Kha rif	Rab i	Rain fed	Irriga ted	(h a)		rated	demon stratio n cost. (Rs.)	
Kha	rif Pulse										
1.	Pigeon pea						10	NA-1/ Malvi 16	Jun- July	Bio fungicide + seed+ins ecticide	110000
Oils	eed	1				l			<u>J</u>		<u>J</u>
1.	Mustard	Moong	Pad dy	Rai	-	-	10	Pusa Mahak /R.Suf lam	Octobe r- Decem ber	Seed+ Sulphur+ insecticid e	60000
Puls	ses										
1.	Lentil	Moong	Pad dy	Lent	Rainf ed	-	50	Arun/ HUL 57	Nov.	Seed+ Rhizobiu m /Trichode rma	175000
2.	Chickpea						20	As per variety availa ble	Oct.	Seed+ Rhizobiu m /Trichode rma	200000
3.	Moong	Moong	Pad dy	Whe at		Irrigat ed	30	PDM- 139	March	Seed+tre atment material+ sulpher	15000
		•			Tota	1	•				390000

(B)FRONT LINE DEMONSTRATION OTHER THAN OILSEED & PULSES (2018-19) $\,$

S. N.	Crop	Previous crop and cropping system					Ar ea	Variet y	Sowin g time	Technol ogy Demonst	Input of
		Summ er	Kha rif	Rab i	Rain fed	Irriga ted	(h a)			rated	demon stratio n cost.
1.	Paddy	Vegeta ble	Pad dy	Whe	-	Rainf ed/Irri gated	10	Sahbh agi/R. Sweta	June- August	Seed+ ZnSo4	25000
2.	Wheat	Moong	Pad dy	Whe at	-	Irrigat ed	20	HD 2985/ HI156 3	Nov.	Late sown variety + Herbicid e	150000
3.	Kitchen garden	Veg.	Veg .	Veg.		Irrigat ed	50 no s.	Veg. seeds	July- Feb.	Seeds+ seedlings	20000
4.	Mushroo m Productio n	-	-	-	-	-	50 no s.	Oyster	Oct./N ov.	Seed/spa wn+che micals	20000
5.	Animals	-	-	-	-	Irrigat ed	1	Makha n grass	Sep/Oc t	Fodder seed	10000
6.	Paddy	insectic ides					5 ha	Insecti cide	Jul - Sep		12000
7.	Cabbage	Moong	Mai ze	Veg etabl e	-	Irrigat ed	2h a	Hybrid	Sept Nov.	Seed	32000
	1	1		1	Tota	il	1	1	Ji.	1	269000

ACTION PLAN FOR ON FARM TRIAL 2018-19

OFT-1

Title of on farm trial: Assess the foliar application of potassium nitrate in late sown wheat

for mitigation of terminal heat stress

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

Thematic Area: ICM

Details of technology

Technical option:

Technology option 1: Farmers Practice: General cultivation of late sown wheat (during 2nd

fortnight of Dec.) without any foliar spray

Technology option 2: Foliar spray 0.5% KNO3 at booting and 0.5% KNO3 at anthesis stage

Technology option 3: Foliar spray 1.0 % KNO3 at anthesis stage

Source: BAU, Sabour

Plot size: 250 sq. m. each farmer

No. of Replication: 06 (Farmers)

Performance Indicator:

1. No. of grains/ earhead

2. Test weight (gram)

3. Green yield Q/ha

4. Economics

Title of on farm trial: Assess the Chickpea for enhancing the profitability

Problem diagnosed: Low profitability

Source: BAU, Sabour

Thematic Area: ICM

Details of technology

Technological Option:-

Technology option 1: PG 186

Technology option 2: Sabour Chana-1

Technology option 3: BGM 547

Replication: 10

- 1. Plant height at 30,60,90 days and at maturity
- 2. Days to 50% flowering and days to maturity
- 3. No. of branches per plant, pods/plant and 100 seed weight (g)
- 4. Seed yield (kg/ha), straw yield/ha and harvest index (%)
- 5. Disease occurrence(Name & severity)
- 6. Insect infestation(Name & severity)

Title of on farm trial: Assess the fertilizer dose in short duration paddy

Problem diagnosed: injudicious use of fertilisers

Source: BAU, Sabour

Thematic Area: ICM

Details of technology

Technological Option:-

Technology option 1: Current recommended dose of fertilizer (80:40:20Kg, N: P_2O_5 : K_2O per ha)

Technology option 2: Proposed dose of fertilizer (100:45:30Kg, N: P₂O₅: K₂O per ha)

Technology option 3: Farmers practice (120:20:10::N:P₂O₅:K₂O)

Replication: 10

- 1. No. of tillers/m²
- 2. Grains per ear head
- 3. 1000 grain weight (gm)
- 4. Cost of cultivation (Rs/ha)
- 5. Yield (qt/ha)
- 6. B:C Ratio

Title of on farm trial: Assessment of Aonla pricking devices to minimize injuries

Problem diagnosed: Difficulty in hand pricking of Aonla (hand injuries)

Thematic Area: Drudgery

Details of technology

Technical option:

Technology option 1: Hand pricking with fork needle (farmer's practice)

Technology option 2: Hand operated Aonls pricking machine (HAU)

Technology option 3: Manually operated Aonla pricking technique (KVK model)

Plot size:

No. of Replication: 8

Source: HAU (Hissar)

- 1. Capacity in (kg)/hr
- 2. Time taken in pricking/kg
- 3. Percentage hand injury/comfortability

Title of on farm trial: Assessment of potato varieties for value added products

Problem diagnosed: Excess supply of potatoes in harvesting season result in lower income

and lack of knowledge about suitable variety for value added products

and lack of storage facilities

Details of technology

Technical option:

Technology option 1: Value added product of Kufri Pukraj (F.P)

Technology option 2: Value added product of Kufri Khyati (CPRI)

Technology option 3: Value added product of Kufri Surya (CPRI)

Plot size:

No. of Replication: 10

Source of technology: CPRI

- 1. Acceptability
- 2. Storability
- 3. B:C ratio

Title of on farm trial: Assessment of different extension teaching methods in enhancement

of farmers

Problem diagnosed: Lack of knowledge of farmers with respect to modern technologies of

Paddy cultivation

Source of technology: BAU, Sabour

Thematic Area: Differ of teaching

Details of technology

Technical option:

Farmers practice: No extension teaching methods

Technology option 1: Training

Technology option 2: Training + Demonstration

Technology option 3: Training + use of ICT

Plot size:

No. of Replication: 40 (10 in each)

- 1 Adaptation quotation
- 2 Change in knowledge gap
- 3 Change in yield (qtl/ha)
- 4 Change in B:C ratio

Title of on farm trial: Assess the different levels of boron on qualities of cauliflower

Problem diagnosed: Production of poor quality curd of cauliflower in Gaya district

Source of technology: BAU, Sabour

Thematic Area: I.N.M.

Details of technology

Technical option:

Farmers practice: Soil application of borax @ 5kg/ha

Technology option 1: Soil application of borax @ 10kg/ha

Technology option 2: Soil application of borax @ 15kg/ha

Technology option 3: Soil application of borax @ 15kg/ha + foliar application of

boron @ 0.2%

Plot size:

No. of Replication: 10

- 1 Colour of curd
- 2 Weight of curd
- 3 Height of plant (cm)
- 4 Yield (qtl/ha)
- 5 B:C ratio

Title of on farm trial: Assessment of herbal drug and micro mineral supplement in

postpartum anoestrus in cattle.

Problem diagnosed: Infertility in cattle

Source of technology: MAPSU, Maharastra

Thematic Area: Disease Management

Details of technology

Technical option:

Farmers practice: Feeding with germinated wheat

Technology option 1: Feeding with germinated wheat

Technology option 2: Use of herbal drugs on 1st and 2nd day and 10th & 11th day

Technology option 3: Albendazole + microminerals for 28 days + TO₁

No. of Replication: 10

- 1 No. of animals come in heat
- 2 Nature of discharge
- 3 Conception rate (%)

Title of on farm trial: Effect of probiotic and prebiotic on productivity of dairy animals

Thematic Area: Feed management

Problem diagnosed: Low productivity

Source of technology: Dr. PDKV, AKOLA, Maharastra

Details of technology

Technical option:

Farmers practice: No use of probiotic and prebiotic

Technology option 1: Probiotic @ 10g/day (Saccharomyces cerevisiae)

Technology option 2: Probiotic + Prebiotic @15 g/day

Technology option 3: Albendazole + microminerals for 28 days + T_{O1}

(Saccharomyces cerevisiae + MOS + Glucans

No. of Replication: 10

Performance Indicator:

1 Milk production

- 2 Cost of milk production
- 3 Gross return
- 4 Net return
- 5 B:C ratio

Chief Scientist-cum-Univ. Prof. In-Charge Head KVK, Gaya