Annual Action Plan
(April 2015 - March 2016)

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: BAU, SABOUR, BHAGALPUR, BIHAR

3. Training Programme to be organized (April 2015 - March 2016)

(a) Practising farmer /Farm women

Thematic Area	Title	Duration	No. of participants			
			SC	ST	Others	Total
Crop Production						
Integrated Crop Management	Nutrient & water management in summer moong/Urdbean	2	4	-	21	25
Resource conservation	Importance of green manure crops for sustainable production	2	4	-	21	25
Resource management	Packages of practices for direct seeded rice	2	5	-	20	25
Nursery management	Techniques of MAT – type nursery raising for transplanting through machine	2	5	-	20	25
INM	INM in paddy	2	3	-	22	25
Crop Diversification	Contingent crop plan to mitigate adverse weather conditions	2	2	-	23	25
Integrated Crop Management	Irrigation and fertilizer management in kharif maize	2	4	-	21	25
Low cost input management	Use of bio-fertilizers for sustainable crop production	2	3	-	22	25
Weed management	Integrated weed management in Rabi pulses	2	2	-	23	25
Productivity Enhancement	Production techniques for late sown wheat	2	4	-	21	25
Integrated Crop Management	Fertilizer and irrigation management in wheat	2	2	-	23	25
Resource conservation	Micro-irrigation and its benefit in crop production	2	5	-	20	25
Integrated farming	IFS models for profitable farming	2	3	-	22	25
Plant protection						
Integrated disease management	Techniques of seed treatment in SRI Paddy	2	3	-	22	25
Integrated pest management	IPM in kharif paddy	2	3	-	22	25
Integrated disease management	Management of wilt in Pigeon pea	2	5	-	20	25
Integrated pest management	I P M in kharif okra	2	4	-	21	25
Integrated disease management	Management of sheath blight and false smut in paddy	2	5	-	20	25
Integrated disease management	Management of root rot and wilt complex in lentil.	2	1	-	24	25
Integrated disease management	Seed treatment in wheat	2	4	-	21	25
Integrated disease management	Management of late blight of potato	2	3	-	22	25
Integrated pest management	I P M in oilseed crops	2	4	-	21	25
Integrated pest management	Pest management in moong	2	4	-	21	25
Home Science						
Storage loss minimization	Home scale method of Safe grain	2	4	-	21	25

	storage					
Women & Child care	Supplementary nutrition – when, why and how	2	4	-	21	25
Income generation	Different avenues of farm women enterprises	2	4	-	21	25
Household food security by kitchen gardening and nutrition gardening	Kitchen Gardening and Human health	2	5	-	20	25
Minimization of nutrients loss in processing	Prevention of nutrition loss during cooking process	2	4	-	21	25
Gender main streaming through SHGs	Women SHG Formation and Function	2	3	-	22	25
Design and development of low/minimum cost diet	Low cost nutritive food available in rural areas	2	5	-	20	25
Income generation activities for empowerment of rural Women	Mushroom Production	2	1	-	24	25
Value addition	Value addition of potato	2	5	-	20	25
Value addition	Different preparation from Aonla	2	4	-	21	25
Value addition	Processing of seasonal fruits and vegetables	2	4	-	21	25
Value addition	Value addition of tomato	2	3	-	22	25
Women and child care	Importance of nutrients and their deficiency symptom	2	3	-	22	25
Women and child care	Adulteration in common food materials	2	1	-	24	25
Veterinary Science						
Dairy Management	Scientific management for improvement of milk production	2	4	-	21	25
Feed Management	Feeding of dairy animals in different stage of life	2	1	-	24	25
Disease Management	Management and prevention of HS & BQ in dairy animals	2	3	-	22	25
Feed Management	Treatment of straw with urea	2	4	-	21	25
Disease Management	Vaccination in Poultry and dairy animals	2	1	-	24	25
Poultry production	Income generation through backyard poultry production	2	3	-	22	25
Goat farming	Small scale goat farming	2	1	-	24	25
Disease management	Management of common disease in dairy animals	2	5	-	20	25
Dairy Management	Management of cattle in different season	2	5	-	20	25
Disease Management	Regular deworming and its importance in milk production	2	5	-	20	25
Dairy Management	Clean milk production	2	5	-	20	25
Dairy Management	Technique of productive enhancement of dairy animals	2	5	-	20	25
Disease Management	Management of common disease in goats	2	5	-	20	25
Fodder Management	Fodder production round the year	2	5	-	20	25

(b) Rural Youth

Thematic Area	Title	Duration	No. of participants			
			SC	ST	Others	Total
Crop Production						
Seed production	Seed production techniques of paddy/ wheat	6	4	-	21	25
Seed production	Seed production techniques of lentil	6	4	-	21	25
Plant Protection						
Vermi composting	Vermi composting	6	2	-	18	20
Home Science						
Rural Craft	Hand embroidery	6	5	-	15	20
Mushroom Production	Mushroom Production	6	3	-	17	20
Value addition	Preservation of fruits and vegetable	6	2	-	18	20
Veterinary Science						
Dairy Management	Entrepreneurship development in dairy farming	6	4	-	16	20
Goat farming	Entrepreneurship development in goat farming	6	5	-	15	20
Total						

(b) Extension Functionaries

Thematic Area	**Title**	**Duration**	**No. of participants**			
			SC	**ST**	**Others**	**Total**
Crop Production						
Productivity enhancement	Improved practices for kharif crops production	2	4	-	21	25
Productivity enhancement	Improved practices for rabi crops production	2	3	-	22	25
Plant Protection						
Integrated pest management	Integrated pest management in rabi crops	2	4	-	21	25
Home Science						
Women and child care	Importance of Balance Diet	2	5	-	20	25
Veterinary Science						
Dairy Management	New trends in dairy farming	2	5	-	20	25
Total						

Extension Activities 2015-16

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	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**									
Film Show	**10**									
Method Demonstrations	**6**	**60**	**10**	**70**	**3**	**2**	**5**	**63**	**12**	**75**
Farmers Seminar										**-**
Workshop	**1**									**Mass**
Group meetings	**3**									**mass**
Lectures delivered as resource persons	**25**									
Newspaper coverage	**30**									
Radio talks	**04**									
TV talks	**05**									
Popular articles	**06**									
Extension Literature	**10**									
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**									**500**
Diagnostic visits	**10**	**40**	**15**	**15**				**40**	**15**	**55**
Exposure visits	**1**									
Ex-trainees Sammelan										
Soil health Camp	**5**									
Animal Health Camp	**2**	**100**		**100**						**100**
Agri. mobile clinic										
Soil test campaigns	**-**									
Farm Science Club Conveners meet	**-**									**mass**
Self Help Group Conveners meetings	**2**									**mass**

Mahila Mandals Conveners meetings	**2**	-	-	-	-	-	-	-	-	**mass**
Celebration of important days (specify)	**3**	-	-	-	-	-	-	-	-	**mass**
Any Other (Specify)										
Krishi Vikas Utsav										
Technical bulletin	**1**									**1**
Total										

Action plan of FLD for the year 2015-16

(A) FRONT LINE DEMONSTRATION OILSEEDS AND PULSES (RABI-2014-2015)

S.N.	Crop	Previous crop and cropping system			Farming situation		Area (ha)	Variety	Sowing time	Technology Demonstrated	Input of demonstration cost.
		Summer	Kharif	Rabi	Rainfed	Irrigated					
Oilseed											
1.	Mustard	Moong	Paddy	Rai	-	-	5	Pusa Mahak /R.Sufl am	October-December	Seed+ Sulphur	15000/-
Pulses											
1.	Lentil	Moong	Paddy	Lentil	Rainfed	-	10	Arun/HUL 57	Nov.	Seed+ Rhizobium /Trichoderma	30000/-
2.	Moong	Moong	Paddy	Wheat		Irrigated	5	PDM-139	March	Seed+treatment material	15000/-
	Total-										60000/-
(B) FRONT LINE DEMONSTRATION OTHER THAN OILSEED & PULSES (2014-15)											
1.	Paddy	Vegetable	Paddy	Wheat	-	Rainfed/Irrigated	10	Sahbhagi/ R. Sweta	June-August	Seed+ ZnSo4	25000/-
2.	Wheat	Moong	Paddy	Wheat	-	Irrigated	10	HD 2985	Nov.	Late sown variety + Herbicide	55000/-
3.	Kitchen garden	Veg.	Veg.	Veg.		Irrigated	100 nos.	Veg. seeds	July-Feb.	Seeds+seedlings	30000/
4.	Mushroom	-	-	-	-	-	50	Oyster	Oct./Nov.	Seed/spawn+ch	20000/-

	Production						nos.			emicals	
5.	Zero tillage	Machine+seed	-	-	-	-	2	--	-	Machine + seed + technology	10000/-
6.	Animals	Dual purpose Chicks					50	Gram priya/ vanraja		Chicks 10 each	25000/-
7.	Paddy	insecticides					5 ha	Insecticide	Jul - Sep		12000/-
	Total										254000/-

ACTION PLAN FOR ON FARM TRIAL 2015-16

OFT-1

Title of on farm trial: Performance of drought tolerant varieties of paddy in Gaya district.

Problem diagnosed: Erratic monsoon, low water table during May to August in kharif season causing delay in transplanting which ultimately reduces yield.

- Less availability of water and abundance of upland in Gaya district

Technical option: (Varieties)

I. Farmers Variety

II.Sahbhagi

III. Shushka Samart

IV. Sabour Ardhjal

Plot size: 0.30ha each farmer

No. of Replication: 10 (Farmers)

Source: IRRI & BAU, Sabour

Performance Indicator:

1. No. of tiller/ sq. meter
2. Grains/ earhead
3. 1000 grain wt (gm)
4. Cost of cultivation (Rs. /ha)
5. Yield (q/ha)
6. B: C ratio

OFT-2

Title: Assessment of different herbicide for controlling Cuscutta in Lentil

Problem Diagnosed: Cuscutta (Amarlatti) is a major weed in some part of the Gaya district causing yield reduction up to 80% in affected crops particularly in lentil/Chickpea.

Details of technologies selected for assessment/ refinement

Technical Option:

I. Farmers practice (Handweeding)
II. Pendimethalin 30% EC @ 1000 g ai/ha PE (0-3 DAS)
(Formulation 3.3 lit/ha)
III. Imazathapyr 10% SL @ 20g ai/ha post emergence (15-20 DAS)
(Formulation 200 ml/ha)
IV. TO-I followed by TO-II

Source: BAU, Sabour, Bhagalpur

No. of Replication – 10

Plot size – 0.40 ha each farmer

Performance Indicator

1. Weed count/Sq. m
2. Weeds flora count/Sq. m
3. Yield (Q/ha)
4. B: C ratio.

OFT-3

Title of on farm trial: Bio- efficacy of some insecticides against brown plant hopper (*Nilaparvata lugens*) in paddy.

Problem diagnosed:

- About 25-30% yield loses due to infestation of brown plant hopper
- Farmers are using synthetic pyrithraids for the management of BPH

Source: G.B.P.U.A.T., Pantnagar, Uttarakhand

Details of technology

Technical option:

I. Farmers practice
II. Ethiprole 40% + Imidachloprid 40%(80 g) @ 100g a.i/ha, 100g/ha
III. Buprofezine 20 EC @1000ml/ha

Plot size: - 0.30ha each farmer

Replication: 10

Performance Indicator:

1. Percent hill burning by hopper
2. Yield estimation
3. Benefit cost ratio

OFT-4

Title of on farm trial: Efficacy of some insecticides against fruit borer *Helicoverpa armigera* in tomato

Problem diagnosed:

- About 30-35% yield loses due to infestation of fruit and shoot borer in tomato
- Farmers are using chlorpyriphos 20 EC @ 3000ml/ha

Source: G.B.P.U.A.T., Pantnagar/AIRCP vegetable

Details of technology

Technical option:

I. Farmers practice
II. Flubendiamide 39.85Sc@100ml/ha
III. Novaluran 10 EC@500ml/ha
IV. NPV250 LE@500ml/ha

Plot size: - 0.30ha each farmer

Replication: 10

Performance Indicator:

1. No of healthy & affected fruit/SQM (5 spot per replication)
2. Yield estimation
3. Benefit cost ratio

OFT- 5

Title of on farm trial: Efficacy of some fungicides against late blight of potato *Phytophthora infestance*

Problem diagnosed: 20-25% yield loses due to infection of *Phythphthora infestance*.

Source: CPRI Shimla.

Details of technology

Technical option:

I. Farmers practice
II. Fenamidone 10% + Mancozeb 50% @1500 gm/ha
III. Cymoxanil 8% + Mancozeb 64% @1000 gm/ha

Plot size: - 0.30ha each farmer

Replication: 10

Performance Indicator:

1. Calculation of percent severity of *Phythphthora infestance*
2. Yield estimation.
3. Benefit cost ratio

OFT- 6

Title of on farm trial: - Assessment of performance of selected income generating activities or microenterprises on success of SHGs.

Problem diagnosed: - Quality of SHGs performance is critical and there is need of critical examination for strategies, interventions, fund flow and its utilization for assessment of its success.

Details of technology:

Technical option:

I. SHG with credit flow only

II. SHG with adopted intervention - Agarbati production

III. SHG with adopted intervention – Mushroom production

IV. SHG with adopted intervention – Poultry production

V. SHG with adopted intervention- Baby corn production

Replication: - 10 members from each SHGs

Performance Indicator:

1. Income generation per annum
2. B:C Ratio

OFT- 7

Title of on farm trial: Assessment of different base materials in oyster mushroom production.

Problem diagnosed: High cost of wheat straw

Source: Directorate of Mushroom Research, Solan, H.P.

Details of technology:

Technological option

I. Farmers practices (use of wheat straw as base material).

II. Use of paddy straw (50%) + use of wheat straw (50%) as base material.

III. Use of paddy straw (50%) + use of maize straw (50%) as base material.

IV. Use of wheat straw (50%) + use of maize straw (50%) as base material.

Replication: 10

Performance Indicator:

1. Quantity of Produced
2. B: C ratio.

OFT- 8

Title of on farm trial: Management of Hypogalactia condition in dairy animals.

Problem diagnosed: - Reduced in milk yield in lactating animals.

Source: Bombay Veterinary College, Parel, Mumbai, India

Details of technology

Technological Option:-

I. Farmer practice (No any supplement)
II. Herbal preparation(@ 4 boli per day orally once daily for 20 days)
III. Calcium and vitamin supplementation(@ 100ml daily for 30 days)

Replication: 10

Performance Indicator:

1. Average milk production
2. Cost of milk production
3. B:C ratio

OFT- 9

Title of on farm trial: Effect of enzyme supplementation on performance of broilers

Problem diagnosed: Non utilization of non starch polysaccharides and phytase due to lack of needed enzymes and also affect the digestion and absorption in the intestine.

Source: Tamilnadu Veterinary and Animal Science University, Chennai

Details of technology

Technological Option:-

I. Farmers practice (no enzyme supplementation)
II. Enzyme supplementation @ 250g/ton
III. Enzyme supplementation @ 500g/ton
IV. Enzyme supplementation @ 1000g/ton

Replication: 10

Performance Indicator:

1. Weight gain
2. Feed intake
3. FCR
4. Cost of production
5. Gross return
6. Net return
7. B:C ratio