Annual Action Plan
(April 2014 - March 2015)

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 2014 - March 2015)

(a) Practising farmer /Farm women

Thematic Area	Title	Duration	No. of participants			
			SC	ST	Others	Total
Crop Production						
Resource conservation	Importance of green manure crops for sustainable production	2	4	-	21	25
Resource management	Production techniques of direct seeded rice	2	5	-	20	25
Nursery management	Methods of nursery raising for rice transplanting through machine	2	5	-	20	25
Integrated Crop Management	Nutrient & water management in summer moong	2	4	-	21	25
INM	INM in paddy	2	3	-	22	25
Crop Diversification	Contingent crop plan under adverse weather conditions	2	2	-	23	25
Integrated Crop Management	Irrigation and fertilizer management in kharif crops	2	4	-	21	25
Low cost input management	Importance 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 importance in crop production	2	5	-	20	25
Integrated farming	IFS models for profitable farming	2	3	-	22	25
Plant protection						
Integrated pest management	Safe home scale storage of cereals and pulses	2	4	-	21	25
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	IPM in kharif maize	2	1	-	24	25
Integrated disease management	Management of sheath blight in Kharif Paddy	2	5	-	20	25
Integrated pest management	I P M in Kharif okra	2	4	-	21	25

Integrated pest management	I P M in brinjal	2	3	-	22	25
Integrated disease management	Techniques of seed treatment of pulses by Rhizobium.	2	1	-	24	25
Integrated pest management	I P M in cole crops	2	1	-	24	25
Integrated disease management	Management of root rot and wilt complex in chick pea	2	5	-	20	25
Integrated disease management	Important of 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
Bio control of pest and disease	Management of pod borer in chick pea	2	1	-	24	25
Integrated pest management	Pest management in moong	2	4	-	21	25
Home Science						
Storage loss minimization	Home scale method of Safe grain storage	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						
Disease management	Management of dairy cattle in summer	2	4	-	21	25

Disease management	Management and control of HS and BQ in cattle	2	1	-	24	25
Poultry management	Backyard Poultry Farming	2	3	-	22	25
Feed management	Feed management and calculation of feed in cattle	2	5	-	20	25
Dairy management	Scientific dairy farming	2	4	-	21	25
Disease management	Cause of infertility and their management in cattle	2	1	-	24	25
Fodder management	Fodder production round the year	2	3	-	22	25
Dairy management	Management of dairy cattle in winter	2	1	-	24	25
Dairy management	Method of hygienic milk Production in dairy cattle	2	5	-	20	25
Disease management	Schedule and method of vaccination in cattle	2	5	-	20	25
Disease management	Management of common disease in cattle	2	5	-	20	25
Goat farming	Feeding management in goat	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
Plant Protection						
Bee Keeping	Bee Keeping	6	4	-	16	20
Vermicomposting	Vermicomposting	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 in field crops	Improved practices for kharif crops production	2	4	-	21	25
Productivity enhancement in field crops	Improved practices for rabi crops production	2	3	-	22	25
Plant Protection						
Integrated pest management	Role of ITK in pest management	2	4	-	21	25
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						
Poultry Farming	Backyard Poultry Farming	2	5	-	20	25
Total						

Extension Activities 2014-15

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										
Film Show										
Method Demonstrations	**6**									**-**
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**									**100**
Farmers visit to KVK	**500**									**500**
Diagnostic visits	**10**									
Exposure visits	**1**									
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp	**4**	**200**	**25**	**225**						**225**
Agri. mobile clinic										
Soil test campaigns	**1**									
Farm Science Club Conveners meet	**1**									**mass**
Self Help Group Conveners meetings	**2**									**mass**
Mahila Mandals Conveners meetings	**2**									
Celebration of important days (specify)	**3**									
Any Other (Specify)										
Krishi Vikas Utsav										
Technical bulletin										
Total	**1257**									**2520**

Action plan of FLD for the year 2014-15

(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	25000/-
3.	Kitchen garden	Veg.	Veg.	Veg.		Irrigated	100 nos.	Veg. seeds	July-Feb.	Seeds+seedlings	30000/
4.	Mushroom Production	-	-	-	-	-	50 nos.	Oyster	Oct./Nov.	Seed/spawn+chemicals	20000/-

5.	Zero tillage	Machine+seed	-	-	-	-	2	--	-	Machine + seed + technology	10000/-
6.	Animals	Chicks					20	Dual		Chicks 20 each	20000/-
7.	Marigold	Planting material					2 ha.	Seedling	Oct-nov	seedling	5000/-
8.	Paddy	insecticides					8 ha	Insecticide	Jul - Sep		24000/-
	Total:-										219000/-

ACTION PLAN FOR ON FARM TRIAL 2014-15

OFT-1

Title of on farm trial: Evaluation of different crop establishment practices for rice cultivation in Gaya.

Problem diagnosed: Resources like labour and water are scarce; Methane emission is another problem from puddled paddy field.

Details of technology:

Technical option;

I. Farmers practice

II. Glyphosate 41 % SL @ 2.0 lit /ha, 10- 15 days before seeding + Dry Seeding by ZT followed by light irrigation + 2, 4-D 38 % EC @ 1.3 lit/ ha after 25- 30 DAS.

III. Glyphosate 41 % SL @ 2.0 lit /ha, 10- 15 days before seeding + Primed seed on moist field with ZT + 2, 4- D 38 % EC @ 1.3 lit/ ha after 25- 30 DAS.

Plot size: - 0.30ha each farmer

No. of Replication: - 8 (Farmers)

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

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. No of BPH at 60,80 & 100 DAT from 100 hills
2. Percent hopper burning
3. Yield estimation
4. 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 insecticides against jassids (*Amrasca bigitula bigitula*) in okra.

Problem diagnosed:

- About 25-30% yield loses due to infestation of okra jassids
- Farmers are using metasystox for the management of okra jassids

Source: AIRCP vegetable

Details of technology

Technical option:

I. Farmers practice
II. Thiomethoxam 25WDG@100g/ha
III. Imidacloprid 70WDG 35g/ha

Plot size: - 0.30ha each farmer

Replication: 10

Performance Indicator:

1. No of jassids per SQM(5 spot/replication)
2. Percent burning by yellowing/mosaic per SQM
3. Yield estimation
4. Benefit cost ratio

OFT –6

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- 7

Title of on farm trial: - Assessment of effect of group performance 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:

Tech. option 1. – SHG with credit flow only

Tech. option 2. – SHG with adopted intervention – Mushroom production

Tech. option 3. – SHG with adopted intervention – Poultry production

Replication: - 30 SHGs

Performance Indicator:

1. Income generation
2. Employment generation / Entrepreneurship development
3. Group discipline
4. Group mobilization

OFT- 8

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- 9

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

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

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- 10

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