

16th Extension Education Council Meeting Report

(October 2018 - March 2019)



30-05-2019

Krishi Vigyan Kendra Manpur, Gaya

Directorate of Extension Education



Bihar Agricultural University, Sabour, Bhagalpur

Progress Report for Extension Education Council Meeting
(From October 2018 to March 2019)
 Krishi Vigyan Kendra, Manpur, Gaya

1. Staff Position (Only Head and S.M.S)

S.N.	Name	Post	Specialization	Date of Joining	Mobile No.
1.	Dr. S. B. Singh	In-Charge Head	Dairy Science	17.03.1991	9431810044
2.	Dr. Ashok Kumar	SMS	Extension Education	08.01.2008	9471018020
3.	Mr. Devendra Mandal	SMS	Agronomy	17.04.2012	9472031176
4.	Dr. Anil Kumar Ravi	SMS	Animal Science	20.04.2012	7979902798

2. Achievement of Training Programme :

A. Training Programme for Practicing Farmers/Farm women:-

S. N.	Discipline	Duration (days)	Course No.	No. of Beneficiaries					
				Others		SC/ST		Total	
				M	F	M	F	M	F
(i)	Crop Production	1	10	142	10	60	17	202	27
(ii)	Extension Education	1	23	551	113	112	122	663	235
(iii)	Animal Science	1	45	1368	585	422	425	1790	1010
Total			78	2061	708	594	564	2655	1272

B. Training Programme for Extension Functionaries:

S. N.	Discipline	Duration (days)	Course No.	No. of Beneficiaries					
				Others		SC/ST		Total	
				M	F	M	F	M	F
(i)	Crop Production	1	2	42	4	6	2	48	6
(ii)	Extension Education	0	0	0	0	0	0	0	0
(iii)	Animal Science	0	0	0	0	0	0	0	0
Total			2	42	4	6	2	48	6

C. Vocational training for Rural Youth:

S. N.	Discipline	Duration (days)	Course No.	No. of Participants					
				Others		SC/ST		Total	
				M	F	M	F	M	F
(i)	Crop Production	3	1	20	1	4	0	24	1
(ii)	Extension Education	1	1	12	3	3	2	15	5
(iii)	Animal Science	7	2	36	5	4	2	40	7
Total			6	68	9	11	4	79	13

D. Sponsored Training programme

S. N.	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants										Sponsoring Agency
					PF/R Y/EF		Male			Female			Total				
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1.	Rabi Mahotsav	Crop production	Oct	1	PF	4	90	45	0	15	25	0	105	70	0	175	ATMA, Gaya
2.	Seed production of rabi crops	Crop production	Feb.	1	PF	1	40	10	0	2	5	0	42	15	0	57	BRBN, Patna
3.	Integrated nutrient management in rabi crop	INM	Mar	1	PF	1	37	10	0	0	2	0	37	12	0	49	IFFCO, Gaya
4.	Scientific cultivation of oilseed & pulses	Cereal production	Oct	1	PF	1	141	33	0	17	7	0	158	40	0	198	ATMA, Gaya
5.	Management of FMD in livestock	Disease Management	Oct	1	PF	1	123	52		2	3		125	55	0	180	ATMA, Gaya
6.	Management of dairy animals during winter	Dairy Management	Oct	1	PF	1	163	28		0	0		163	28	0	191	ATMA, Gaya
7.	Clean milk production	Dairy Management	Oct	1	PF	1	142	23		0	0		142	23	0	165	ATMA, Gaya
8.	Infertility in dairy animals	Disease Management	Oct	1	PF	1	139	53		0	0		139	53	0	192	ATMA, Gaya
9.	Fodder production round the year	Fodder Production	Oct	1	PF	1	147	27		0	0		147	27	0	174	ATMA, Gaya
10.	Small scale goat farming	Goat Production	Oct	1	PF	1	141	29		0	0		141	29	0	170	ATMA, Gaya
11.	Income generation through backyard poultry	Poultry Production	Oct	1	PF	1	127	26		0	0		127	26	0	153	ATMA, Gaya
12.	Vaccination in dairy animals	Disease Management	Oct	1	PF	1	117	32		0	0		117	32	0	149	ATMA, Gaya
13.	Mushroom production technology	Entrepreneurship development	Dec	1	PF	1	41	17	0	19	11	0	60	28	0	88	ATMA, Gaya

PF- Progressive Farmer /RY- Rural Youth/EF- Extension Functionaries

3. Front Line Demonstration:

Details of FLDs implemented during Oct. 2018 to Mar. 2019 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Frontline demonstration on Oilseeds

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	BCR

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	BCR

Frontline demonstration on other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% change in yield	*Economics of demons (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR
Wheat	Crop production	Variety	16	4.0	41.0	36.2	0.13	42650	73800	31150	1.73
Drumstick	Vegetable production	Seed	188	0.8	Result awaited						

Wheat (varietal evaluation for yield) through IARI, Pusa, Samastipur

Variety	Maximum Yield (Q/ha)	Minimum Yield (Q/ha)	Average Yield (Q/ha)
HD 2967	48.0	37.0	42.5
HI 1563	37.0	31.0	34.0
HD 2733	42.0	36.2	39.1
HD 3118	39.0	32.6	35.8
HD 2985	41.0	38.5	39.7

Frontline demonstration on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmers	No. of units	Major parameters		% change in major parameter	*Economics of demons (Rs.) or Rs./unit			
					Demonstration	Check		Gross Cost	Gross Return	Net Return	** BCR
Fodder	Fodder Production	Makhan Grass	13	13	8	7	14.2	6548	13468	6920	2.05

Frontline demonstration on other enterprises

Category	Thematic area	Name of the technology demonstrated	No. of Farmers	No. of units	Major parameters		% change in major parameter	*Economics of demons (Rs.) or Rs./unit			
					Demonstration	Check		Gross Cost	Gross Return	Net Return	** BCR

Frontline demonstration on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals										
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										

Potato										
Field bean										
Others (pl.specify)										
Total										
Commercial crops										
Cotton										
Coconut										
Others (pl.specify)										
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (pl.specify)										
Total										

4. ON FARM TRIAL

S.N.	Name of the Trail	Crop	Variety	Area (ha)/ farmer	No. of Farmers
1.	Assess the Chickpea for enhancing the profitability	Chickpea	PG 186 Sabour Chana 1 BGM 547	1.5	5
2.	Assess the fertilizer dose in short duration paddy	Paddy	R. Shweta	2.5	7
3.	Effect of feeding urea molasses multi nutrient block to the dairy animals	-	-	160 kg	10
4.	Performance of different wheat sowing methods under late sown irrigated condition	Wheat	DBW 14	1.0	10

5. Details of On Farm Trial (OFT):

OFT-1

1.	Title of On farm Trial	Assess the Chickpea for enhancing the profitability
2.	Problem diagnosed	Low profitability
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-I: PG 186 TO-II: Sabour Chana-1 TO-II: BGM 547
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	BAU, Sabour
5.	Production system and thematic area	ICM
6.	Performance of the Technology with performance indicators	1. Yield 2. Economics
7.	Final recommendation for micro level situation	Sabour Chana – 1 is suitable for Gaya district
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Training and field-day

Thematic area: ICM

Problem definition: Low profitability

Technology assessed:

- 1 TO-I: PG 186
- 2 TO-II: Sabour Chana – 1
- 3 TO-III: BGM 547

Table:

Technology option	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
TO-I	12.6	25290	50400	25110	1.99
TO-II	15.8	25140	63200	38060	2.51
TO-III	13.9	25320	55600	30280	2.19

Results: The result shows that the treatment TO-II (Sabour Chana – 1) gives the highest yield & net return.

OFT-2

1.	Title of On farm Trial	Assess the fertilizer dose in short duration paddy
2.	Problem diagnosed	Injudicious use of fertilizers
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-I: Current recommended dose of fertilizer (80:40:20Kg, N: P ₂ O ₅ :K ₂ O per ha) TO-II: Proposed dose of fertilizer (100:45:30Kg, N: P ₂ O ₅ : K ₂ O per ha) TO-III: Farmers practice (120:20:10:N:P ₂ O ₅ :K ₂ O)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	BAU, Sabour
5.	Production system and thematic area	ICM
6.	Performance of the Technology with performance indicators	Yield and yield attributes
7.	Final recommendation for micro level situation	Technology option II (100:45:30Kg, N: P ₂ O ₅ : K ₂ O per ha) is recommended for short duration paddy
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Training and field-day

Thematic area: ICM

Problem definition: Injudicious use of fertilizers

Technology assessed:

TO-I: Current recommended dose of fertilizer (80:40:20Kg, N: P₂O₅:K₂O per ha)

TO-II: Proposed dose of fertilizer (100:45:30Kg, N: P₂O₅: K₂O per ha)

TO-III: Farmers practice (120:20:10: N: P₂O₅: K₂O)

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of tillers/m ²	No. of grains per panicle	Test wt. (1000 grain wt.)						
TO-I	7	206.4	39.0	21.6	15	39.4	40600	70920	30320	1.74
TO-II	7	238.9	42.0	22.5	11	42.6	39220	76680	37460	1.95
TO-III	7	192.6	36.0	20.9	20	38.2	42190	68760	26570	1.62

Results: The result shows that Technology option II (100:45:30Kg, N: P₂O₅: K₂O per ha) gives high yield, net return & B:C ratio.

OFT-3

1.	Title of On farm Trial	Effect of feeding urea molasses multi nutrient block to the dairy animals
2.	Problem diagnosed	Low milk production due to nutrient deficiency in cattle
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	1. Farmers practice (FP) concentrate @200g/lit milk 2. TO-I: FP + Mineral mixture @ 50g/d/animal 3. TO-II: FP + UMMB @ 400g/d/animal
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IVRI, Izatnagar, Bareilly
5.	Production system and thematic area	Feed Management
6.	Performance of the Technology with performance indicators	i) Average milk yield/day ii) Cost of milk production iii) Gross return iv) Net return v) BCR
7.	Final recommendation for micro level situation	UMMB is very useful during scarcity of green fodder and helps in improving milk productivity of cattle
8.	Constraints identified and feedback for research	Non-descript breed and poor management
9.	Process of farmers participation and their reaction	Farmers accepted that UMMB block is beneficial for them specially during scarcity of green fodder

Thematic area: Feed Management

Problem definition: Low milk production due to nutrient deficiency in cattle

Technology assessed:

- 1 Farmers practice (FP) concentrate@200g/lit milk
- 2 TO-I: FP + Mineral mixture @ 50g/d/animal
- 3 TO-II: FP + UMMB @ 400g/d/animal

Table:

Technology option	Milk production/gay	Cost of production	Gross return	Net return	BCR
FP	5.84	5900	12259	6395	2.08
TO I	6.71	6380	14091	7711	2.20
TO II	6.95	6420	14595	8175	2.27

Results: Result of this trial show that average milk production in Technology Option II is highest i.e., 6.95 kg/day/animal and BC Ratio of Technology Option II is higher the Technology Option I.

OFT-4

1.	Title of On farm Trial	Performance of different wheat sowing methods under late sown irrigated condition
2.	Problem diagnosed	Low yield of wheat under late sown irrigated condition due to lack of available irrigation water
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers practice: Sowing wheat seed after 3-4 ploughing with one deep ploughing TO-I: Sowing wheat seed with zero tillage TO-II: Sowing wheat seed with two light cross - ploughing
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	BAU, Sabour
5.	Production system and thematic area	Crop production under moisture stress condition
6.	Performance of the Technology with performance indicators	i) No. of grain/earhead ii) Test wt. (g) iii) Grain yield (q/ha) iv) BC ratio
7.	Final recommendation for micro level situation	Among all the technologies TO ₂ (sowing wheat seed with two light ploughing) should be popularized among the farmers.
8.	Constraints identified and feedback for research	There is scarcity of irrigation water & lack of availability of heat tolerant wheat variety. These move heat tolerant varieties should be tested in this district.
9.	Process of farmers participation and their reaction	Farmers were satisfied with the technology and are ready to adopt it.

Thematic area: Crop production

Problem definition: Low yield of wheat due to insufficient irrigation water available for wheat sown under late sown irrigated condition

Technology assessed:

Farmers practice: Sowing seed with 3-4 ploughing with one deep ploughing

TO-I: Sowing seed with Zero Tillage machine

TO-II: Sowing seed with two light cross – ploughing

Table:

Technology option	No. of trials	Yield component			Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of tillers/m ²	No. of earhead/m ²	Test wt. (1000 grain wt.)					
FP	10	285.9	277.7	38.3	33.56	28960	62925	33965	2.20
TO ₁		299.5	278.3	38.2	34.26	26255	64238	37983	2.45
TO ₂		371.3	280.2	38.3	36.15	26900	67781	40881	2.52

Results: The table reveals that TO2 (Sowing seed with two light cross ploughing) gave the highest yield of 36.15 qtl/ha with highest BC ratio of 2.52.

5. Seed material produced at KVK farm :

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided
Wheat	S. Nirjal (F/S)	8.75	35000	14
	DBW 14 (F/S)	13.73	54920	03
	DBW 14 (C/S)	24.31	85085	08
	HI 1563 ((T/L)	3.10	6300	04
Moong	PDM 139 (T/L)	3.50	42000	01
Grand Total		53.39	2,23,305	30

6. Performance of Instruction Farm :

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty. (q)	Cost of inputs	Gross income	
Lentil	07.12.18	30.03.19	1.0	HUL 57	F/S	3.70	16400	-	In Godown
Wheat	26.12.18	02.05.19	1.9	S.Nirjal	C/S	48.80	57950	-	In Godown
Wheat	31.12.19	02.05.19	1.25	DBW 14	C/S	16.80	38125	-	In Godown
Tisi	27.10.18	27.03.19	0.10	S. Tisi 2	T/L	0.42	1950	-	In Godown

7. Performance of demonstration units (other than instructional farm):

Sl. No.	Name of demo Unit	Year of estd.	Area	Details of production			Amount (Rs.)	
				Variety	Produce	Qty.	Cost of inputs	Gross income
1	Goatry Unit	2015	400	Black Bengal	Kids	17 Kids		

8. List of special programmes undertaken by the KVK, which have been financed by ATMA/ Central Govt./ State Govt./NHM/NFDB/RKVY (Kisan Salahkar) Other Agencies :

S.N.	Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
1.	KKA Phase II	Upliftment of socio-economic status	02 Oct. – 25 Dec. 2018	Govt. of India	1,20,000
2.	Skill Development Training	Entrepreneurship development	15 Jan – 13 Feb. 2019	RKVY	1,65,200
3.	Skill Development Training	Entrepreneurship development	1 Mar – 28 Mar 2019	RKVY	1,65,200

4. Extension Activities :

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	12	216	12	228	7	2	9	223	14	237
Kisan Mela										
Kisan Ghosthi/Chaupal	12	204	44	248	0	0	0	204	44	248
Exhibition										
Film Show	1	126	19	145	10	3	13	136	22	158
Method Demonstrations										
Farmers Seminar										
Workshop										
Group meetings										
Lectures delivered as resource persons	45	687	205	892	43	24	67	730	229	959
Advisory Services	687	446	113	559	96	32	128	542	145	687
Scientific visit to farmers field	339	668	37	705	0	0	0	668	37	705
Farmers visit to KVK	432	357	34	391	27	14	41	384	48	432
Diagnostic visits	179	126	53	179	0	0	0	126	53	179
Exposure visits	5	121	9	130	9	0	9	130	9	139
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp	1	11	0	11	0	0	0	11	0	11
Agri mobile clinic										
Soil test										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	1	20	6	26	2	0	2	22	6	28
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
World Soil Day	1	51	9	60	8	2	10	59	11	70
Swacchta Hi Seva	13	183	107	290	32	11	43	215	107	333
Pre-Rabi Sammelan	1	275	67	342	16	2	18	291	69	360
Any Other (Specify)										
Total	1729	3491	715	4206	250	90	340	3741	794	4546

B. Other Extension activities

Nature of Extension Activity	No. of Activities
Newspaper coverage	47
Radio talks	
TV talks	
Popular articles	
Extension Literature	2
Other, if any	

5. Any new initiative taken by KVK :

- ❖ Cluster demonstration on oilseeds, chickpea, lentil & pulses
- ❖ Organized ICAR/RKVY Skill development trainings (No- 02)
- ❖ Imparted training to beneficiaries under KKA Phase-II
- ❖ Distributed drumstick saplings among 188 farmers/farm women under FLD programme
- ❖ Preparation of database of innovative farmers of the district
- ❖ Participation in Kisan Gosthi organized by Govt. of Bihar at Sonpur Mela 2018
- ❖ Survey of village under DFI
- ❖ Preparation of Action Plan for Road Map 2017-21 of BAU, Sabour
- ❖ Organized Pre-Rabi Sammelan

Special programme/activities by the KVK:

S.N.	Programme/activities	Date	No. of farmers participated
1.	Mahila Kisan Diwas	15.10.2019	99
2.	KKA Phase II	02 Oct. – 25 Dec. 2018	-
3.	World Soil Day	05.12.2018	70
4.	Swacchta Pakhwada	16 -31 Dec. 2019	333
5.	Live Telecast/Webcast & inauguration of Kisan Samman Nidhi Scheme by Hon'ble PM, Govt. of India	24.02.2019	158
6.	Pre-Rabi Sammelan	08.03.2019	360
7.	Skill development training (ICAR-RKVY)	15 Jan – 13 Feb. 2019	20
8.	Skill development training (ICAR-RKVY)	1 Mar – 28 Mar 2019	20

Proposed Extension Programme (April 2019 – September 2019)

3. Training Programme to be organized (April 2019 – Sep. 2019)

(a) Practicing farmer /Farm women

Thematic area	Title of Training	No.	Dura tion	Venue On/Off	Tentative Date	No. of Participants									
						SC		ST		Other		Total			
						M	F	M	F	M	F	M	F	T	
Crop Production															
Soil fertility	Method of soil sampling	1	1	On/Off	April,2019	5	1	-	-	15	1	20	2	22	
Nursery Management	Methods of nursery raising of rice	1	1	On/Off	May 2019	5	1	-	-	15	1	20	2	22	
RCT	Cultivation Technique of Direct Seeded Rice	1	1	On/Off	June 2019	5	1	-	-	15	1	20	2	22	
Crop Production	Cultivation technique of pigeon pea	1	1	On/Off	June 2019	5	1	-	-	15	1	20	2	22	
Crop production	Cultivation technique of maize	1	1	On/Off	July 2019	5	1	-	-	15	1	20	2	22	
Production of organic inputs	Management of vermicompost unit in rainy season	1	1	On/Off	July 2019	5	1	-	-	15	1	20	2	22	
IWM	Integrated weed management in paddy	1	1	On/Off	August 2019	5	1	-	-	15	1	20	2	22	
INM	Integrated nutrient management in paddy	1	1	On/Off	Sep 2019	5	1	-	-	15	1	20	2	22	
Total		8	8			40	8			120	8	160	16	176	
Extension Education															
Entrepreneurial development	Increasing income of farmers through vermi-composting	2	1	OFF	22.05.19/ 29.05.19	4	0	0	0	32	4	36	4	40	
Entrepreneurial development	Upliftment of socio- economic condition through beekeeping	2	1	OFF	12.06.19/ 19.06.19	4	0	0	0	32	4	36	4	40	
Entrepreneurial development	Entrepreneurship development in mushroom production	2	1	OFF	10.07.19/ 24.07.19	4	0	0	0	32	4	36	4	40	
Group dynamics	Farmers group as the means of socio- economic upliftment of farmers & farm women	2	1	OFF	07.08.19/ 14.08.19	4	0	0	0	32	4	36	4	40	
Group dynamics	Farmers field school is the need of the time for changing behavioural component of the farmers	2	1	OFF	04.09.19/ 12.09.19	4	0	0	0	32	4	36	4	40	
Information networking	Use of ICT in agriculture for increasing yield	2	1	OFF	11.10.19/ 17.10.19	4	0	0	0	32	4	36	4	40	

Information networking	availability of markets for sale of their produce	2	1	OFF	11.04.19/ 25.04.19	4	0	0	0	32	4	36	4	40
Organic farming	Organic farming is the need of the time for farmers	2	1	OFF	06.11.19/ 20.11.19	4	0	0	0	32	4	36	4	40
Formation and management of SHGs	Socio-economic upliftment of farmers/farm women by means of SHGs.	2	1	OFF	04.12.19/ 11.12.19	4	0	0	0	32	4	36	4	40
Formation and management of SHGs	Importance of SHGs in increasing income of farmers/farm women	2	1	OFF	08.01.20/ 22.01.20	4	0	0	0	32	4	36	4	40
Capacity building	Increasing knowledge in vegetable seed production	2	1	OFF	05.02.20/ 12.02.20	4	0	0	0	32	4	36	4	40
Capacity building	Increasing knowledge for cultivation of high value crops	2	1	OFF	04.03.20/ 18.03.20	4	0	0	0	32	4	36	4	40
Total		24	12			48	0	0	0	384	48	432	48	480
Veterinary Science														
Goat farming	Small scale goat farming	2	1	ON/ OFF	25.04.19/ 17.10.19	8	6	0	0	20	6	28	1 2	40
Feed Management	Treatment of straw with urea	1	1	ON/ OFF	22.05.19	4	3	0	0	10	3	14	6	20
Dairy Management	Clean milk production	2	1	ON/ OFF	12.09.19	8	6	0	0	20	6	28	1 2	40
Disease Management	Management of HS & BQ in dairy animals	2	1	ON/ OFF	29.05.19/ 12.06.19	8	6	0	0	20	6	28	1 2	40
Poultry Management	Income generation through backyard poultry	1	1	ON/ OFF	19.06.19	4	3	0	0	10	3	14	6	20
Disease Management	Management of infertility in dairy animals	1	1	ON/ OFF	10.07.19	4	3	0	0	10	3	14	6	20
Feed Management	Method of calculation of balanced ration in dairy animals	1	1	ON/ OFF	29.07.19	4	3	0	0	10	3	14	6	20
Poultry Management	Management of commercial broiler	1	1	ON/ OFF	07.08.19	4	3	0	0	10	3	14	6	20
Disease Management	Vaccination in cattle in poultry	1	1	ON/ OFF	14.08.19	4	3	0	0	10	3	14	6	20
Feed Management	Fodder production round the year	1	1	ON/ OFF	04.09.19	4	3	0	0	10	3	14	6	20
Disease Management	Management of common diseases of goat	1	1	ON/ OFF	11.10.19	4	3	0	0	10	3	14	6	20
Total		14	1			56	42	0	0	140	42	196	84	280

(b) Rural youths

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Crop Production														
Seed Production	Seed Production Technology in rice	1	4	ON	July 2019	5	1	-	-	15	1	20	2	22
Production of Organic Inputs	Methods of vermicompost production	1	4	ON	August 2019	5	1	-	-	15	1	20	2	22
Integrated Farming	Cultivation of aromatic and medicinal Plant	1	4	ON	Sept 2019	5	1	-	-	15	1	20	2	22
Total		3	12			15	3			45	3	60	6	66
Extension Education														
Entrepreneurship development	Increasing income by means of mushroom production & its value addition	2	5	ON	15-20.07.19 21-26.10.19	4	0	0	0	32	4	18	2	20
Beekeeping	Beekeeping as the means of developing entrepreneurship in agriculture	1	5	ON	25-29.06.19	2	0	0	0	16	2	18	2	20
Vermi-culture	Vermicomposting as the means of self employment	1	5	ON	3-7.02.20	2	0	0	0	16	2	18	2	20
Total		4	15			8	0	0	0	64	8	54	6	60
Veterinary Science														
Dairying	Dairy Management	1	5	ON	26-30 Aug 19	4	3	0	0	10	3	14	6	20
Goat rearing	Goat Management	1	4	ON	24-27 Jun 19	4	3	0	0	10	3	14	6	20
Total		2	9			8	6	0	0	20	6	28	12	40

(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants									
						SC		ST		Other		Total			
						M	F	M	F	M	F	M	F	T	
Crop Production															
Integrated Nutrient Management	I.N.M. for sustainable paddy production	1	1	Off	May 2019	5	1	-	-	15	1	20	2	22	
Extension Education															
Entrepreneurship development	Doubling income by means of mushroom production	1	2	ON	15-16.01.20	3	2	0	0	18	2	21	4	25	
Veterinary Science															

Extension Activities 2019-20 (April 2019 – Sep. 2019)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	5	150	25	175	5	-	5	155	25	180
Kisan Mela	2	-	-	-	-	-	-	-	-	Mass
Kisan Ghosthi /Kisan chaupal	20	350	50	400	15	5	20	365	55	420
Exhibition	1	-	-	-	-	-	-	-	-	Mass
Method Demonstrations	3	30	5	35	2	1	4	32	6	38
Workshop	1	-	-	-	-	-	-	-	-	Mass
Lectures delivered as resource persons	13	300	10	310	15	10	25	315	20	335
Newspaper coverage	15	-	-	-	-	-	-	-	-	Mass
Radio talks	02	-	-	-	-	-	-	-	-	Mass
TV talks	03	-	-	-	-	-	-	-	-	Mass
Popular articles	03	-	-	-	-	-	-	-	-	Mass
Extension Literature	03	-	-	-	-	-	-	-	-	-
Advisory Services	250	200	50	250	-	-	-	-	-	250
Scientific visit to farmers field	50	30	15	45	5	-	5	35	15	50
Farmers visit to KVK	250	200	50	250	-	-	-	-	-	250
Diagnostic visits	5	20	5	25	-	-	-	20	5	25
Exposure visits	1	50	-	-	-	-	-	-	-	50
Soil health Camp	3	-	-	-	-	-	-	-	-	Mass
Animal Health Camp	4	120	-	120	-	-	-	-	-	120
Soil test campaigns	2	-	-	-	-	-	-	-	-	2
Celebration of important days (specify)	3	-	-	-	-	-	-	-	-	Mass
Any Other (Specify)	-	-	-	-	-	-	-	-	-	-
Krishi Vikas Utsav	-	-	-	-	-	-	-	-	-	-
Technical bulletin	1	-	-	-	-	-	-	-	-	1
Total	640	1450	210	1610	42	16	59	922	126	1721

Action plan of FLD for the year 2019-20

(A) FRONT LINE (Cluster) DEMONSTRATION OILSEEDS AND PULSES (2019-20)

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.	Rapseed & Mustard		Paddy	Mustard	Rainfed		50	RGN 726	Nov	Variety+ Herbicide+ Sulphur	3,00,000/-
Pulses											
1.	Pigeonpea		Pigeonpea		Rainfed		20	NA-1/ Malvi 16	Jun-July	Bio fungicide+ seed+ insecticide	1,80,000/-
2.	Lentil		Paddy	Lentil		Irrigated	50	IPL 406	Nov	Seed+ Herbicide+ Biofertilizer	4,50,000/-
3.	Chickpea		Paddy	Chickpea		Irrigated	50	GCP 105	Nov	Seed+ Herbicide+ Biofertilizer	4,50,000/-
3.	Blackgram	Urd	Paddy	Wheat		Irrigated	30	Birsa Urd-1	March	Seed+ treatment material+ sulphur	2,70,000/-
Total											16,50,000/-

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

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					
1.	Paddy	Vegetable	Paddy	Wheat	-	Rainfed/Irrigated	10	Sabour Ardhjal	June-Aug.	Seed+ ZnSO ₄	25,000/-
Total											25,000/-

ACTION PLAN FOR ON FARM TRIAL 2019-20

OFT-1

1	Season:	Kharif
2	Title of the OFT:	Assessment of different cropping system in Gaya district
3	Thematic Area:	Cropping system
4	Problem diagnosed:	Low profitability of Rice-Wheat cropping system
5	Important Cause:	Scarcity of labor and less mechanization
6	Production system:	Rice-Lentil/wheat
7	Micro farming system:	Medium upland
8	Technology for Testing:	TO ₂ – Rice-Wheat-Greengram TO ₃ – Rice-Mustard-Greengram
9	Existing Practice:	TO1 - Rice-Wheat-Fallow
10	Hypothesis:	Reduce cost of cultivation
11	Objective(s):	Yield increment with less cost
12	Treatments:	TO ₁ - Rice-Wheat-Fallow TO ₂ – Rice-Wheat-Greengram TO ₃ – Rice-Mustard-Greengram
13	Critical Inputs:	Seed
14	Unit Size:	3.5 Acre
15	No of Replications:	7
16	Unit Cost:	3000
17	Total Cost:	21000
18	Monitoring Indicator Economic Indicator:	Yield attributes Net return, B:C ratio
19	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	ICAR-RCER, Patna

OFT-2

1	Season:	Kharif
2	Title of the OFT:	Assessment of effect of different extension teaching methods in enhancing yield of paddy
3	Thematic Area:	Extension teaching methods
4	Problem diagnosed:	Low yield of paddy due to lack of judicious use of proper extension teaching methods
5	Important Cause:	Low knowledge & low level of adoption of the recommended production technologies
6	Production system:	Moong-Paddy-Wheat
7	Micro farming system:	Medium land, availability of insufficient irrigation
8	Technology for Testing:	Seed, Chemicals & fertilizers
9	Existing Practice:	Use of local seed
10	Hypothesis:	Different combination & extension teaching methods does not affect the yield of paddy
11	Objective(s):	i) To increase the yield of paddy ii) To increase the level of knowledge about recommended production technologies iii) To increase the level of adoption of recommended production technologies
12	Treatments:	FP: Members of farmers club not exposed to any extension teaching methods regarding recommended production technologies TO-I: Members of farmers club given lecture + Literature regarding recommended production technologies TO-II: Members of farmers club given sensitivity training + Literature regarding recommended production technologies TO-III: Members of farmers club given lecture + video related to recommended production technologies
13	Critical Inputs:	Quality seed of paddy
14	Unit Size:	0.1 ha
15	No of Replications:	10 (Total no. of plots – 40 i.e., 10 in each)
16	Unit Cost:	Rs. 120/-
17	Total Cost:	Rs. 4800/-
18	Monitoring Indicator:	1 Level of knowledge 2 Level of adoption 3 Yield 4 BCR
19	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	BAU, Sabour

OFT-3

1	Season:	Kharif/Rabi
2	Title of the OFT:	Assessment of different preventive method of subclinical mastitis control in cattle.
3	Thematic Area:	Disease Management
4	Problem diagnosed:	Reoccurring of sub clinical mastitis in cattle
5	Important Cause:	Poor hygienic management
6	Production system:	Semi-intensive
7	Micro farming system:	Semi-intensive
8	Technology for Testing:	Teat dip and use of antioxidant & trace mineral, vitamin E and selenium
9	Existing Practice:	Use of water to clean teat
10	Hypothesis:	May help to control mastitis in dairy animal
11	Objective(s):	Control of mastitis in dairy animal
12	Treatments:	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
13	Critical Inputs:	Teat dip, antioxidant & trace mineral, vitamin E and selenium and BTB strip
14	Unit Size:	1
15	No of Replications:	10
16	Unit Cost:	1000
17	Total Cost:	10000
18	Monitoring Indicator:	Occurrence of subclinical mastitis tested by BTB strip
19	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	Postgraduate institute of veterinary and animal Science, Akola

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