

**KRISHI VIGYAN KENDRA, SIPAYA (GOPALGANJ)**  
**ANNUAL REPORT 2016 (April 2016 to March 2017)**

**1. GENERAL INFORMATION ABOUT THE KVK**

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
K.V.K. Sipaya Farm, P.O.- Sipaya, Gopalganj (Bihar) Pin: 841501	-	-	<a href="mailto:kvksipaya@rediffmail.com">kvksipaya@rediffmail.com</a>

1.2. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Dr. Rajendra Prasad Central Agricultural University, Bihar Pusa (Samastipur)- 848125	06274- 240226	06274-240255	<a href="mailto:raupusa@sancharnet.in">raupusa@sancharnet.in</a>

1.3. Name of the Programme Coordinator with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
<b>Dr. Ramakrishna Roy</b>	-	9135025137	<a href="mailto:kvksipaya@rediffmail.com">kvksipaya@rediffmail.com</a>

1.4. Year of sanction of KVK: 2006

1.5. Staff Position (as on 1<sup>st</sup> April, 2017)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr. R.K. Roy	Programme Coordinator	Animal Science	15600-39100 19680	16.06.2015	Permtt.	Others
2	Subject Matter Specialist	Dr. S.K. Mandal	SMS(P.P.)	Plant Protection	15600-39100	12.10.2012	Permtt.	EBC
3	Subject Matter Specialist	Dr. Rajendra Prasad	SMS (Agronomy)	Agronomy	15600-39100	11.06.2009	Permtt.	Others
4	Subject Matter Specialist							
5	Subject Matter Specialist							
6	Subject Matter Specialist							
7	Subject Matter Specialist							
8	Programme Assistant							
9	Computer Programmer	S.B.K. Rai	Computer Operator		7900	01.09.07	Temp.	OBC
10	Farm Manager							
11	Accountant / Superintendent	Sanjay Kumar	Assistant	-	9300-34800	03.11.14	Permtt	S.T.
12	Stenographer							
13.	Driver							
14.	Driver	S.Kumar	Tractor Driver	-	7900	24.05.07	Temp	Others
15.	Supporting staff	Pappu kumar	Supporting Staff		6700	16.06.09	Temp	OBC
16.	Supporting staff	Mukesh Kumar	Supporting Staff	-	4400-7440+GP- 1800 (4400)	22.08.2015	Permtt.	Others

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	-
2.	Under Demonstration Units	-
3.	Under Crops	13.0
4.	Orchard/Agro-forestry	1.0
5.	Others with details	6.0
	<b>Total</b>	<b>20.0</b>

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					✓		use	ICAR
2.	Farmers Hostel					✓		Use	-do-
3.	Staff Quarters (6)	2 unit			4 unit	✓			-do-
4.	Piggery unit								
5.	Fencing								
6.	Rain Water harvesting structure								
7.	Threshing floor					✓		Use	-do-
8.	Farm godown					✓		Use	-do-
9.	Dairy unit								
10.	Poultry unit								
11.	Goatary unit								
12.	Mushroom Lab								
13.	Mushroom production unit								
14.	Shade house								
15.	Soil test Lab								
16.	Others, Please Specify								

\* If not in use then since when and reason for non-use

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Jeep (Bolero)	2007	5.0 lakh	227679	Required to be replaced

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
<b>a. Lab equipment</b>				
Moisture meter	2012	1200	Good	DSF, Dholi
Digital scale (cap 2kg)	2017	4100	Good	ICAR
E-scale (Cap 6 kg)	2017	1961	Good	ICAR
<b>b. Farm machinery</b>				
Tractor	2006	328738	Good	ICAR
Power weeder	2010	75000	Good	Department of S/C
Sugar cane cutter planter	2011	72450	Good	Department of S/C
Square baler	2012	840000	Good	Government of Bihar Project under PHT & Management
Zero Till Drill				
Cultivator	2017	22000	Good	ICAR
Disc Harrow	2017	43000	Good	ICAR
<b>c. AV Aids</b>				
Computer & Accessories	2007	70000	Good	ICAR
Handycam DCR-DVD 710E	2009	24990	Not working	ICAR
Multimedia Projector	2009	95000	Good	ICAR
Photostat machine	2009	64000	Not working	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Avery balance	2009	39398	Not working	Department of S/C
Bag closer machine	2010	5400	Good	DSF, Dholi
Sprayer hi Tech	2007	1250	Good	Department of S/C
Sprinkler System	2007	30,000	Good	Department of S/C
Ridger	2007	8500	Good	Department of S/C
Dal maker	2007	6200	Good	Department of S/C
Hand operated fan (winnow)	2007	2850	Good	Department of S/C
Cultivator 9 tyne	2008	14500	Good	Department of S/C
Rocker Sprayer (Aspee)	2008	4100	Good	Department of S/C
Knapsack sprayer (Aspee)	2009	6000	Good	Department of S/C
Disc Plough	2010	24600	Good	Department of S/C
Disc bund former	2010	16900	Good	Department of S/C
Ridger	2010	17500	Good	Department of S/C
Power weeder	2010	75000	Good	Department of S/C

Rotavator	2010	75000	Good	Department of S/C
Duster	2010	1900	Good	Department of S/C
Sugarcane cutter planter	2011	72450	Good	Department of S/C
Mobile seed processing plant	2010	981760	Not working	DSF, T.C.A, Dholi
Generator	2010	49900	Good	ICAR
Pump set (2 nos.)	2008	31200	Good	ICAR
Tractor (35 h.p.)	2006	328738	Good	ICAR
Disc harrow	2006	21635	Good	ICAR
M. B. Plough	2006	16058	Good	ICAR
Hydraulic trolley	2006	62500	Good	ICAR
Case wheel	2006	5192	Good	ICAR
Leveller	2006	7692	Good	ICAR
Cultivator	2017	22000	Good	ICAR
Disc Harrow	2017	43000	Good	ICAR

### 1.8. Details SAC meeting\* conducted in the year

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	21.02.2017	60		Annexure 1	

\* Salient recommendation of SAC in bullet form

Attach a copy of SAC proceedings along with list of participants

### 2.a. District level data on agriculture, livestock and farming situation (2016-17)

S. No	Farming system/enterprise
1	Crop based farming system
2	Vermi Culture
3	Dairy farming
4	Poultry

### ii) Agro-climatic Zone & major agro ecological situations

S. No	Agro-climatic Zone	Characteristics
1	Zone – I	North- west alluvial plain. Sandy loam to loam soil, pH 6.5 to 9.5. Available N.P.K. range from 150-350,05-50 and 100-300 Kg per ha, respectively. The average rain fall of 1234.77mm where as maximum rain fall occur from June to September (1107.6 mm) The soil is mainly deficient in Zn, B and Fe.

iii) Agro ecological situation

S. No	Agro ecological situation	Characteristics
1	Up land	Sandy loam soil, flat topography, no water logging, calcareous soil having free calcium carbonate 30-40%, easier in tillage operation with medium water table.
2	Medium land	Soil loam in texture, flat topography, water logging for shorter period, calcareous soil with 20-30% free calcium carbonate, Low water holding capacity & good quality ground water.
3	Low land	Deep soil, clay loam texture, flat in topography, tillage operation is difficult, high water table.
4	Diara land	Soil is sandy in texture. Highly porous with poor water holding capacity.

iv) Soil Type

S. No	Soil type	Characteristics
1	Sandy loam	Light soil, 30-40% free calcium carbonate, 7.8-8.5 pH, low fertility status, deficient in P,K,Zn,Fe,S and B with low organic carbon
2	Loam	Medium soil, 20-30% free calcium carbonate, 8.0-8.5 pH, low to medium fertility status, deficient in P,K,Zn,Fe,B and S. Low in organic carbon
3	Clay loam	Medium to heavy texture, <20% free calcium carbonate, <8.0pH, low to medium fertility status, deficient in P,Zn and S with low in organic carbon.

v) Productivity of major crops

S. No	Crop	Area (ha)	Production (q)	Productivity (q/ha)
1 Cereals	Rice	101250	1933875	19.10
	Wheat	96020	2477316	25.80
	Maize	9732	185395	19.05
2 Pulses	Gram	286	1959	6.85
	Lentil	1840	16560	9.00
	Arhar	6956	35615	5.12
	Moong	823	6831	8.30
	Urd	38	274	7.20
	Pea	2375	18050	7.60
3 Oil seeds	Mustard	3842	35731	9.30
	Linseed	1260	7560	6.00
	Sunflower	14.5	123	8.50
	Till	135	945	7.00
	Caster	108	648	6.00
4 Cash Crop	Sugarcane	36223	16278410	449.40
	Potato	1205	229311	190.30
5 Vegetables	Cauli flower	1903	225696	118.60
	Cabbage	1060	170342	160.70
	Onion	825	172425	209.00
	Tomato	1571	240834	153.30
	Brinjal	540	108000	200.00
6 Spices	Garlic	23	1450	63.00
	Coriander	13	110	8.30
7 Fruits	All	5149	502027	97.50

vi) Mean Yearly temperature rainfall humidity in the district:

Month	Rainfall (mm) (Normal)	Rainfall (mm) (Actual) (2016-17)	Temperature (°C)		Relative Humidity (%)		Average wind speed (km/hr)	
			Max	Min	Max	Min	Morning	Evening
January	16.20	0.0	23.20	6.23	77.50	57.91	0.79	4.27
February	13.70	0.0	26.32	11.39	67.26	46.21	1.41	5.62
March	8.80	0.0	32.50	16.34	51.41	30.82	2.07	7.04
April	10.60	0.0	37.49	22.18	45.50	24.71	4.70	8.69
May	63.80	98.1	41.02	26.53	56.53	33.79	7.56	10.06
June	172.80	97.8	38.16	27.61	70.76	54.74	6.99	8.89
July	314.10	236.8	32.99	26.14	82.48	73.64	5.03	7.75
August	310.30	61.6	32.45	26.10	83.45	76.52	5.28	7.59
September	222.80	313.4	32.23	25.32	81.85	75.39	3.60	6.58
October	59.00	31.7	31.84	21.52	74.82	67.91	1.24	6.44
November	5.90	0.0	28.73	14.57	70.76	60.66	0.53	3.29
December	2.60	0.0	24.62	9.80	75.30	59.69	0.65	3.29
Average	1210.6	839.4	31.79					

vii) Production of major livestock products like milk, egg etc.

Category	Population (in '000)	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	17.1	-	-
<i>Indigenous</i>	171.4	-	-
<b>Buffalo</b>	118.2	-	-
<b>Sheep</b>			
<i>Crossbred</i>			
<i>Indigenous</i>	1.1	-	-
<b>Goats</b>	216.3	-	-
<b>Pigs</b>			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	7.509	-	-
<b>Rabbits</b>	-	-	-
<b>Poultry</b>			
Commercial	76.7	-	-
Backyard	37.8		
<i>Desi</i>	-	-	-
<i>Improved</i>	-	-	-
Ducks	0.565	-	-
<b>Fisheries</b>	(nos.only)		
Farmer owned ponds	30		
Reservoirs	229		
Village tanks	209		
Water spread area (ha)	997.8		
Fish production (in'000 tons)	2113.4		
Yield (t/ha)	3.2		

2.b. Details of operational area / villages (2016-17)

S.N.	Name of Block	Name of village	Major crops/enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1.	Kuchaikote	Khem-matihiniya	Paddy, Wheat, sugarcane, Pulses Vegetables, Dairy, Vermi – compost	Cereals-Traditional farming/fixed crop rotation/ Lack of knowledge about recommended cultural practices/Low return/Decreasing trends in yield of most crop plants/Lack of seeds setting in wheat. Heavy losses due to insect – pest/Imbalance use of fertilizers Livestock- Disease, parasites, imbalanced feeding	Crop diversification, High Value Agriculture, Inclusion of pulses in cropping system, skill oriented trainings for agri-based enterprises
2.	Kateya	Ramdas Bagahi	-do-	-do-	-do-
3.	Manjha	Sukulwa Khurd	-do-	-do-	-do-

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS in 2016-17) for its development and action plan

Name of village	Block	Action taken for development
Khemmatihiniya (PC)	Kuchikote	i) Livestock Disease surveillance ii) Animal Health camps iii) FLD on oilseed, pulses, fodder, iv) Awareness programmes and trainings, v) Production problems in crops and livestock
Sukulwa Khurd SMS (PP)	Manjha	i) IPM ii) Organic farming iii) FLD on oilseed, pulses, pests and disease, iv) Awareness programmes and trainings, v) Production problems in crops.
Ramdas Bagahi SMS (Agronomy)	Kateya	i) Seed Production ii) Mechanization of cultivation iii) Organic farming iv) Scientific cultivation of sugarcane v) FLD on oilseed, pulses vi) Production problems in crops

2. d. Sansad Adarsh Gram Yojona

- i) Name of the village under Sansad Adarsha Gram Yojona: Village: Bankatti Panchayat: Khaira Azam village, Baikunthpur block
- ii) Contribution of KVK in the programme:

## 2.1 Priority thrust areas

S. No	Thrust area
1.	Needs to sustain crop productivity through integrated crop and field management approach
2.	Crop diversification
3.	Need to increase area under Vegetables/horticultural/medicinal crops.
4.	Establishment of employment generated agri -based enterprises like seed production/Vermi culture/nursery development/poultry and dairy.
5.	Need based seed production in seed villages to meet the requirement of the district.
6.	Needs to increase cultivation of pulse/oil seed crops which is marginal in the district.
7.	Integrated Disease and pest management
8.	Integrated Nutrient management
9.	Prevention, control and treatment of livestock Diseases
10.	Awareness on deworming and vaccination
11.	Mineral supplementation and protein incorporation in livestock feed
12.	Green fodder cultivation

## 3. TECHNICAL ACHIEVEMENTS

### 3. A. Details of target and achievement of mandatory activities by KVK during 2016-17

OFT				FLD			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
5	4	54	54	9	11	215	340

Training				Extension activities			
Number of Courses		Number of Participants		Number of activities		Number of participants	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
83	86	2058	2607	608	395	2987	4373

Target		Seed production (q)		Planting material (Nos.)	
Crop	Area (ha)	Crop	Area (ha)	Target	Achievement
Paddy	5.5	Paddy	6.0		
Sugarcane	1.6	Sugarcane	1.6		
Wheat	5.5	Wheat	6.0		
Cowpea	-	Cowpea	1.0		
Moong	-	Moong	1.0		

3.1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	<b>Assessment of weedicides to control weeds in paddy crop</b>
2.	Problem diagnosed	Lack of knowledge about suitable weedicides causing heavy loss to farmers
3.	Details of technologies selected for assessment/refinement	<i>Design : RBD, Replication : 7 Treatment : 3, Crop : Paddy, Season : Kharif 2016</i>  <i>Plot size : 500 m<sup>2</sup> Total Area : 10000m<sup>2</sup></i>
4.	Source of Technology	ICAR
5.	Production system and thematic area	Weed management
6.	Performance of the Technology with performance indicators	Details given below
7.	Final recommendation for micro level situation	Use of Butachlor @ 3000ml/ha within 2-3 days after transplanting + Bispyribac sodium @ 250ml/ha within 20-25 days after transplanting
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Easy availability of weedicide, Farmers enthusiastic.

*Thematic area: weed management*

Problem definition: Lack of Knowledge about the use of weedicide

Technology assessed: Productivity of paddy in Bihar is low due to heavy infestation of weeds. Butachlor @ 3000ml/ha within 2-3 days after transplanting + Bispyribac sodium @ 250ml/ha within 20-25 days after transplanting were assessed for weed control

Table: **Efficacy of weedicide**

Technology option	No. of trials	Weed density (No./m <sup>2</sup> )	Weed dry wt. (g/m <sup>2</sup> )	Plant height (cm)	No. of tillers (m <sup>2</sup> )	Lenth of panicle (cm)	Yield (q/ha)	Gross returned (Rs)	BC Ratio
F.P. : No use of weedicide	7	186	220	94.7	18.5	26.21	25.80	36,378	1.97
T.O-1: Butachlor @ 3000ml/ha within 2-3 DAT		32	57	96.5	21.9	28.34	32.57	47,226	2.14
T.O-2: Butachlor @ 3000ml/ha within 2-3 days after transplanting + Bispyribac sodium @ 250ml/ha within 20-25 DAT		12	18	99.8	23.8	29.98	38.60	55,970	2.43
SEm±		6.142	11.879	0.938	0.563	0.510	1.897	-	
CD(P=0.0 5)		18.436	35.648	2.816	1.704	1.531	5.692	-	

Results: use of weedicides significantly reduced weed infestation. Technology option -2 comprising application of Butachlor @ 3000ml/ha within 2-3 days after transplanting followed by foliar spray of Bispyribac sodium @ 250ml/ha within 20-25 days after transplanting proved the most effective treatment to reduce weed density and weed dry weight resulted higher yield (38.60 qt/ha) with maximum benefit cost ratio (2.43).

## OFT-2

1.	Title of On farm Trial	<b>Management of paddy stem Borer</b>
2.	Problem diagnosed	The farmers were generally use synthetic conventional insecticides continuously may resistance problems to stem borer.
3.	Details of technologies selected for assessment/refinement	Design : RBD, Replication : 10 Treatment : 4, Crop : Paddy, Season : Kharif 2016 Plot size : 250 m <sup>2</sup> Total Area : 10000m <sup>2</sup>
4.	Source of Technology	R.A.U.
5.	Production system and thematic area	I.P.M.
6.	Performance of the Technology with performance indicators	Details given below:
7.	Final recommendation for micro level situation	-
8.	Constraints identified and feedback for research	Selection of suitable insecticides with recommended doses and its timely application when borer pests appeared in the rice field
9.	Process of farmers participation and their reaction	Farmers were trained and farmers were positive.

*Thematic area: I.P.M.*

**Problem definition** : Continuous application of same conventional insecticides at short period to control stem borer .

**Technology assessed:** Stem borer is the major pest of paddy in Gopalganj district and infests the stem of the crops which cause dead heart and white ears head of the crops drastically reducing yield. Selective and efficient of combination products of insecticides were used for foliar application in paddy crop for management of stem borer. All the treatments significantly lowered the stem borer incidence over the farmers practice. T.O.-3, Comprising with the foliar spray of combination product of Novaleuron 5.25% +Indoxacarb 4.5% EC @ .075ml/ lit of water 15 days interval proved to be most effective treatment in reducing the infestation as dead heart (2.16%) and white ears head (3.75%) ultimately higher yield 38.62 qt/ha and maximum benefit cost ratio 2.30.

**Table: Effect of combination products of insecticides against paddy stem borer.**

Technology option	No. of trials	Insect pest incidence (Stem Borer)		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Dead heart (%)	White ears (%)					
F.P. – Monocrotophos <a href="#">36SL@1.5ml/lit.</a> of water at weekly interval	10	5.28 (13.31)	6.32 (14.54)	23.76	22356	29700.0	7344	1.33
T.O.-1- Quinolphos 20% + Cypermethrin 3% EC @0.5ml/lit at 15 days interval		2.93 (9.81)	4.36 (12.11)	34.55	20125	43187.5	23062	2.14
T.O.-2: Trizophos 35%+ Deltamethrine <a href="#">1%EC@0.5ml/lit</a> of water at 15 days interval		3.92 (11.39)	5.21 (13.18)	32.24	20918	40300.0	19382	1.92
T.O.-3: Novaleuron 5.25%+Indoxacarb 4.5% <a href="#">EC@0.75ml/lit</a> of water at 15 days interval		2.16 (8.53)	3.75 (11.24)	38.62	21024	48275.0	27251	2.30
SEm±		0.421	0.350	1.094				
CD(P=0.0 5)		1.263	1.052	3.286				

Figures in parentheses are arc sine transformed values.

Market price of paddy @ Rs 1250/qt

**Results:** Among the treatments, T.O.-3, comprising foliar spray of combination product of insecticides viz. Novaleuron 5.25% + Indoxacarb 4.5% EC @ .075ml/ lit of water 15 days interval proved to be most effective treatments to reducing the infestation of the pest as dead heart (2.16%) and white ears head (3.75%) which gave higher yield (38.62 qt/ha) and maximum benefit cost ratio (1:2.30).

## OFT-3

1.	Title of On farm Trial	<b>Management of white fly in green gram</b>
2.	Problem diagnosed	The farmers were generally use sole insecticides continuously may resistance problems to white fly
3.	Details of technologies selected for assessment/refinement	Design : RBD, Replication : 10 Treatment : 4, Crop : Green gram, Season : Summer'16 Plot size : 250 m <sup>2</sup> Total Area : 10000m <sup>2</sup>
4.	Source of Technology	R.A.U.
5.	Production system and thematic area	I.P.M.
6.	Performance of the Technology with performance indicators	Details given below:
7.	Final recommendation for micro level situation	-
8.	Constraints identified and feedback for research	Appropriate insecticides with recommended doses application at proper time i.e. when white fly appeared in the Green gram crops
9.	Process of farmers participation and their reaction	Farmers were positive.

*Thematic area: I.P.M.*

**Problem definition:** Lack of knowledge for proper selection of suitable new insecticides and its time of application

**Technology assessed:** White fly is the dominant pest of moong crop in Gopalganj district and infest the leaf of the crop which cause leaf curl diseases in the plant and ultimately reduce the crop yield. Selective and efficient new insecticides were used for seed treatment and foliar application in moong crop in O.F.T. by KVK, Goplganj for managing white fly population and leaf curl diseases. All the treatments were significantly reduced the white fly population and YMV diseases as compared to the farmer practices. Among the all treatment , T.O.-1 comprising with the seed treatment of Imidacloprid 70WS @ 3.0gm/Kg seed followed by foliar application of Difentheuron 50WP@ 1.0gm/ltr of water at 15 days interval proved to be the best treatment for reducing white fly population (2.13/plant) and YMV(6.25%) which gave higher yield (10.96qt/ha) and maximum benefit cost ratio (2.94:1).

Table: **Effect of new insecticides against white fly in green gram**

Technology option	No. of trials	Disease/ insect pest incidence		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		*Mean white fly population /Plant	**Men YMV(%)					
F.P. Farmers were generally used Dimethoate 30EC@2ml/lit of water	10	3.93 (2.10)	8.62 (17.05)	7.55	12375	24160	11.785	1.95
T.O-1 S.T. with Imidacloprid 70WS@3g/kg seed followed by foliar spray of difentheuron 50 W.P. @1gm/ lit of water at 10 days interval		2.13 (1.62)	6.21 (14.42)	10.96	11918	35072	23154	2.94
T.O.-2 S.T. with Thiomethoxam 30F.S. @1.0gm/Kg of seed followed by acetamiprid 20SP@1gm/lit of water at 10 days interval		2.44 (1.71)	6.94 (15.23)	10.25	11645	32800	21155	2.82
T.O.-3: Spraying with chlorfenapyr <a href="#">10SC@0.5ml/lit</a> of water followed by spirmecifen 22.9 SP @ 1 ml/lit of water at 10 days interval		2.81 (1.82)	7.50 (16.00)	9.18	11820	29376	17556	2.48
S <sub>Em</sub> ±		0.037	0.496	0.509				
CD(P=0.0 5)	0.112	1.485	1.527					

\* Figure in parentheses are square root transform values

\*\* Figure in parentheses are arc sine transform values

Market price of green gram @ Rs 3200/qt

**Result :** The treatment , T.O.-1 comprising with the seed treatment of Imidacloprid 70WS @ 3.0gm/Kg seed followed by foliar application of Difentheuron 50WP@ 1.0gm/lit of water at 15 days interval proved to be the best treatment to reducing white fly population (2.13/plant) and YMV(6.25%) which gave higher yield (10.96qt/ha) and maximum benefit cost ratio (1:2.94).

## OFT-4

1.	Title of On farm Trial	Use of GnRH (gonadotropin Releasing Hormone) to induce ovulation in Cattle
2.	Problem diagnosed	Animals come to estrus but fail to ovulate
3.	Details of technologies selected for assessment/refinement	Farmers; practice: Sprouted wheat (half to one Kg) for a week. Technology Option I: Clomiphene citrate tablet 300 mg daily for 5 days along with copper sulphate tablets. Technology Option II: Cod liver oil capsules 10 capsules twice daily for 10days. (10 animals in each treatment)
4.	Source of Technology	ICAR, New Delhi
5.	Production system and thematic area	Reproductive Management
6.	Performance of the Technology with performance indicators	Farmers Practice: 30 % animals conceived.  Technology Option I: 60 % animals conceived.  Technology Option II: 80 % animals conceived.
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	In Farmers practice deworming has to be done. Farmer often sells his cattle after parturition to realize money and get rid of the problem that has plagued him for long.
9.	Process of farmers participation and their reaction	Brings economic benefit to farmers. The cattle become productive. After parturition the farmer is less keen on retaining cattle.

## *Thematic area: Reproductive Management*

**Problem definition:** Animals come to oestrus but fail to ovulate

### **Technology assessed:**

Farmers' Practice: Farmers' feed soaked and germinated wheat to cattle for bringing the animals to estrus and conceive thereafter. During germination process large number of enzymes is released which increase nutrient availability to animals. Generally the plane of nutrition is poor in field condition.

Technological option I: Clomiphene citrate is effective in treating female infertility. It has an anti-estrogenic effect on hypothalamus blocking the estradiol binding cytoplasmic receptors causing an increase in the levels of Gonadotropin Releasing Hormone (GnRH), which in turn cause an increase in secretion of Follicle Stimulating Hormone (FSH) which results in ovulation.

Technological Option II: Cod liver Oil is a good source of Vitamin A, E and Omega Fatty acids. Vitamins A and E have role in reproductive system. Omega fatty acids scavenge free radicals and prevent injury.

Table: GnRH and codliver oil for conception in cattle

Technology Option	No. of Animals	Result
Farmers' practice: Sprouted wheat (half to a kg daily for a week)	10	30 %
Technology Option I: Clomiphene Citrate (CC) 300 mg daily for 5 days. Administer copper sulphate tabs ( 2 tabs) in 10 ml water 10 minute before administration to close the rumeno-reticular groove.	10	70 %
Cod liver oil capsules 10 capsules twice daily for 10 days	10	80 %

Results: Codliver oil capsules 10 capsules twice a day for 10 days made 80 % animals conceive. Similarly, Clomiphene Citrate (CC) 300 mg daily for 5 days alongwith copper sulphate (2 tabs) in 10 ml water 10 minute before administration of CC to close rumenoreticular groove also gave better Conception in cattle than farmers' practice.

### 3.2 Achievements of Frontline Demonstrations

#### A. Details of FLDs conducted during 2016-17

##### Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
				Proposed	Actual	SC/ST	Others	Total	
1.	Paddy (Kranti)	Crop Production	Variety	10	10	6	19	25	
2.	Cow pea (Swarn Mukut)	Crop Production	Variety	10	10	3	22	25	
3.	Rai (R. Suflam)	Crop Production	Variety	30	30	8	67	75	
4.	Wheat (HD-2824)	Crop Production	Variety	10	10	4	21	25	

##### Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O					
Paddy	Kharif'16	Irrigated	Sandy loam				Wheat	1 <sup>st</sup> week of July 16	1 <sup>st</sup> week of November		
Cowpea	Summer 16	Irrigated	Sandy loam				Paddy	15-30 Feb'16	15 may to 15 June'16		
Rai	Rabi '16-17	Irrigated	Sandy loam				Paddy	October' 16	March'17		
Wheat	Rabi 2016-17	Irrigated	oam				Paddy	15-30 Nov. 16	1 <sup>st</sup> week of March' 2017		

In both the Tables, information of same crop should be provided. For example, if in Table 3.2A crops are mentioned as a,b,c,d etc., in the table for Details of farming situation, the same crop should be mentioned in the identical sequence.

B. Details of FLDs conducted during 2016-17

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
				Proposed	Actual	SC/ST	Others	Total	
1.	Paddy 2016	IPM	i) Phreromon traps	10.0	10.0	5	20	25	Stem borer and leaf folder incidence successfully control
			ii) Beauveria bassiana						
			iii) Neem Oil						
2.	Sugarcane	IPM	Fipronil 0.3GR (Granular insecticide)	6.0	6.0	6	19	25	Top borer incidence successfully control

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O					
Paddy	Kharif'16	Irrigated	Sandy loam				Wheat	1 <sup>st</sup> week of July 16	1 <sup>st</sup> week of November		
Sugarcane	Autumn'16	Irrigated	Sandy loam				Pddy	Last week of Feb. 2016	Ist week of March		

## Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rai	Crop Production	Variety R. Suflam	75	30	14.75	8.5	73	15900	47200	31300	2.96	14300	27200	12900	1.90
Total			75	30											

\* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

Pulses

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)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
	Total														

\* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

**Other crops:**

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters (weed density (No./m <sup>2</sup> ))		Weed dry wt. (g/m <sup>2</sup> )		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)				
					Demonstration	Check		Demo	Check	Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Paddy	Crop Production & weed management	Variety (Kranti) & weed management	25	10	39.15	24.71	58	13	187	17.5	225	23000	56767	33767	2.47	18500	34841	16341	1.88	
Cowpea	Vegetable Production	Variety (Kashi Kanchan)	25	10	50.25	40.17	25	-	-	-	-	33600	100500	66900	2.99	33000	60255	27255	1.82	
Berseem	Fodder Production	Variety (Mescavi)	20	02	656	540	21	-	-	-	-	25000	65600	40600	2.62	25000	54000	29000	2.16	
Wheat	Crop Production	Variety (HD-2824)	<b>Result awaited</b>																	
Total			70	22																

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Insect pest incidence				Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Stem borer (dead heart %)		Leaf folder (Damage %)		Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Demo	Check	Demo	Check											
Paddy	IPM	Pheromon traps	25	10	4.36	9.12	1.23	5.12	29.41	24.35	20.78	20175	36762.5	16587.5	1.82	2000	30437.5	10437	1.52
		Beauveria bassiana			3.15	9.12	0.95	5.12	32.79	24.35	34.66	20235	40987.5	20752.5	2.03	2000	30437.5	10437	1.52
		Neem Oil			5.42	9.12	1.31	5.12	27.62	24.35	13.42	21450	34525.0	13075.0	1.61	2000	30437.5	10437	1.52

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Insect pest incidence		Yield (t/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Top borer (dead heart %)		Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Demo	Check											
Sugarcane	IPM	Fipronil 0.3GR (Granular insecticide)	25	6	10.25	22.41	62.54	45.26	38.27	57630	175112	117482	3.04	55416	126728	71312	2.29

\* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

### Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
Buffalo																	
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl. specify)	Feed management	Mineral Mixture	20														
Total																	

\* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST



### Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women					
Pregnant women					
Adolescent Girl					
Other women					
Children					
Neonatal					
Infants					

### Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit)					
					Demonstration	Check											

\* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

### Demonstration details 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										

Technical Feedback on the demonstrated technologies

S. No	Crop	Feed Back
1	Paddy (Kranti)	Kranti is promising in yield
2.	Cowpea (Swarn Mukut)	Yield of vegetable is good
3.	Rapeseed (R. Suflam)	Yield is good
3.	Berseem (mescavi)	Multiple cuts but farmers do not want to spare land for fodder
4.	Sugarcane (Fipronil)	Controls top borer in sugarcane

Extension and Training activities under FLD

S.No.	Activity	Date and Place	No. of activities organized	No. of participants	Remarks
1	Filed Day on Pigeonpea (Pusa-9)	20/10/16 Rampur Tengrahi		60	
2	Field Day on Rapeseed (R.Suflam )	17/01/17 Sipaya Khas		68	
3	Field Day on Lentil (HUL 57)	21/01/17 Sipaya Dubey Tola		62	
4	Field Day on Rapeseed (R.suflam)	05.02.17 Kalamatihiniya		70	
5	Field Day on Pigeonpea (Pusa 9)	06.02.17 Bhitbherwa		72	
6	Field Day on Pigeonpea (Pusa 9)	07.02.17 Sipaya Dubey Tola		67	
7	Field Day on Lentil (HUL 57)	12.02.17 Bhitbherwa		71	
8	Field Day on Rapeseed (R.Suflam)	15.02.17 Khemmatihiniya		70	
9	Field Day on Pigeon pea (Pusa9)	16.02.17 Bishunpura		69	
10	Rapeseed (R.Suflam)	19.02.17 Kharharwan		68	
11	Lentil (HUL 57)	22.02.17 Baraipatti		81	
2.	Farmers Training				
3.	Media coverage				
4.	Training for extension functionaries				

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2016 and Rabi 2016-17:**

**A. Technical Parameters:**

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1	Pigeon Pea						Pusa 9	50	20	Result awaited					
2.	Rapeseed	Local	8.5	80	-178	-780	R. Suflam	75	30	16.00	13.5	14.75	80.12	63.06	90.49
3.	Lentil						HUL 57	75	30	Result awaited					

**B. Economic parameters**

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
2.	R. Suflam	14300	27200	12900	1.90	15900	47200	31300	2.96

**C. Socio-economic impact parameters**

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
2.	R. Suflam	443.10	310.00	3200/qt	100 qt	-	Meeting their day to day needs	Motivated rural youth towards farming

**D. Oilseed Farmers' perception of the intervention demonstrated**

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
2.	Variety	All farmers can afford	Gain size & colour prefer by farmer	All farmers can afford	Up till date not received	Yes	Timely distribution of seed & Technology

### E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
High yielding variety	Very good	For better than local check	Farmers response is very good

### F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Crop	Number of farmer attended
1.	Field Day	20/10/16 Rampur Tengrahi	Pigeonpea (Pusa-9)	60
2.	Field Day	17/01/17 Sipaya Khas	Rapeseed (R.Suflam)	68
3.	Field Day	21/01/17 Sipaya Dubey Tola	Lentil (HUL 57)	62
4.	Field Day	05.02.17 Kalamatihiniya	Rapeseed (R.suflam)	70
5.	Field Day	06.02.17 Bhitbherwa	Pigeonpea (Pusa 9)	72
6.	Field Day	07.02.17 Sipaya Dubey Tola	Pigeonpea (Pusa 9)	67
7.	Field Day	12.02.17 Bhitbherwa	Lentil (HUL 57)	71
8.	Field Day	15.02.17 Khemmatihiniya	Rapeseed (R.Suflam)	70
9.	Field Day	16.02.17 Bishunpura	Pigeon pea (Pusa9)	69
10.	Field Day	19.02.17 Kharharwan	Rapeseed (R.Suflam)	68
11.	Field Day	22.02.17 Baraipatti	Lentil (HUL 57)	81
Total			11	758

**G. Sequential good quality photographs (as per crop stages i.e. growth & development)**



H. Quality Photographs of field visits/field days and technology demonstrated.



## J. Details of budget utilization

Crop	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Pigeonpea	i) Critical input	60,000.00	54,000.00	
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)	31,282.00	15,000.00	
	iv) Publication of literature			
	Total	91,282.00	69,000.00	22,282.00
Lentil	i) Critical input	1,12,500.00	2,05,020.00	(-) 107520.00
	ii) TA/DA/POL etc. for monitoring (transportat			
	iii) Extension Activities (Field day)		15,000.00	
	iv) Publication of literature			
	Total	1,12,500.00	2,20,020.00	
Rapeseed	i) Critical input	1,41,000.00	11,250.00	
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)		20,000.00	
	iv) Publication of literature			
	Total	1,41,000.00	31,250.00	1,09,750.00

**K. List of Farmer under CFLD**

**A ) Crop 1 : Pigeon Pea (Kharif 2016-17) Result awaited**

	Name of farmer	Father's name	Village	Block	Mobile No.	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Recommendations based on soil test value	Brief technology intervention	Variety	Seed quantity used	Demo. Yield (q/ha)			Yield of local check q/ha	% increase
						Latitude	Longitude						H	L	A		
1	Chandan Kumar Mishra	Birendra Mishra	Ramdas Baghi	Kateya	9934631753	26°33'29" N	84°21'20" E										
2	Nathuni Chaudhari	Ramdev Chaudhari	KanchanPur	Katey	8507040290	26°33'29" N	84°21'25" E										
3	Rajesh Rai	Shanker Rai	Sipaya Khas	Kuchaikote	9973216207	26°33'21" N	84°23'14" E										
4	Niteshwar Dubey	Rabindra Dubey	Sipaya	Kuchaikote	9006413251	26°34'27" N	84°22'42" E										
5	Sarita Devi	Surendra Dubey	Sipaya	Kuchaikote	7232421226	26°34'27" N	84°22'42" E										
6	Sandhya Devi	Ramakant Dubey	Sipaya	Kuchaikote	9852536621	26°34'27" N	84°22'42" E										
7	Awadhkishor Prasad	Buna Bhagat	KhemMatihiniya	Kuchaikote	9546355781	26°34'33" N	84°23'20" E										
8	Santosh Sharma	Lalan Shrma	Sipaya	Kuchaikote	9934017648	26°34'27" N	84°22'42" E										

9	Satendra Prasad	RajaRam Prasad	KhemMat ihiniya	Kuchaikote	9504631916	26°34'33" N	84°23'20" E											
10	Sonu Raj	Vinodh Yadav	Rampur Tengrahi	Gopalganj	7301606317	26°34'33" N	84°23'20" E											
11	Basistha Yadav	Gorakh Yadav	Rampur Tengrahi	Gopalganj	9955248761	26°34'33" N	84°23'20" E											
12	Chandrama Prasad	Santlal Prasad	KhemMat ihiniya	Kuchaikote	9801265886	26°34'33" N	84°23'20" E											
13	Birendra Bhagat	Dhrub Bhagat	DhupSagar	Kuchaikote		26°34'33" N	84°23'22" E											
14	Ramod Yadav	RajaRam Yadav	Rampur Tengrahi	Gopalganj	7301606371	26°34'13" N	84°24'14" E											
15	Banka Sharma	Ugam Sharma	Rampur Tengrahi	Gopalganj	9939667869	26°34'13" N	84°24'14" E											
16	Sanjay Singh	SatyanarayanSingh	Rampur Tengrahi	Gopalganj	9102672884	26°34'13" N	84°24'14" E											
17	Guddu Yadav	Rampriit Yadav	Rampur Tengrahi	Gopalganj	9504411856	26°34'13" N	84°24'14" E											
18	Wokil Yadav	Bir Yadad	KalaMatihiniya	Kuchaikote		26°33'53" N	84°19'58" E											
19	Majistar Yadav	Chandrika Prasad	Dhrampur	Gopalganj	9852837352	26°31'32" N	84°51'24" E											
20	Vijay Shah	Sudama Prasad	KhemMat ihiniya	Kuchaikote	9852626615	26°34'33" N	84°23'20" E											
21	Pramod Kumar	Luxman Pandit	Phulwariya	Kuchaikote	7781054021	26°33'34" N	84°25'21" E											
22	Prawin Kumar Sahi	Ramchandra Shahi	Balathari	Kuchaikote	9934499310	26°33'53" N	84°19'25" E											
23	Ramprawesh Prasad	Rajroshan Singh	KhemMat ihiniya	Kuchaikote	8804020016	26°34'33" N	84°23'20" E											
24	Basudev Yadav	Devnandan Yadav	Bhagwanpur	Gopalganj		26°40'33" N	84°53'18" E											
25	Ramkumar Singh	Kailashpati Singh	Bhitbherwa	Gopalganj	9430909666	26°40'33" N	84°53'18" E											
26	Rajendra Ram	Vikrima Ram	Bhitbherwa	Gopalganj	9473448796	26°40'33" N	84°53'18" E											
27	Nitesh Kumar	Surendra Yadav	SipayaKhas	Kuchaikote	8083826990	26°33'21" N	84°23'14" E											

28	Rajesh Yadav	Abadh Yadav	SipayaKhas	Kuchaikote	9973882586	26°33'21" N	84°23'14" E											
29	Bhim Sah	Saral Sah	Rupchap	Kuchaikote	9771210883	26°34'50" N	84°22'58" E											
30	Maticandra Prasad	RamDyan Prasad	DiyaraVijaypur	Kuchaikote	9260835863	26°33'21" N	84°23'15" E											
31	Devtanand Prasad		Gopalganj	Gopalganj	7870819258	26°39'33" N	84°55'20" E											
32	Nandji Prasad	SitaRam Prasad	Konhawa	Gopalganj	9934244171	26°34'33" N	84°23'04" E											
33	JaiPrakash Singh	Late Ramraj Singh	Nerui	Hathuwa	9234271148	26°38'52" N	84°25'24" E											
34	Chandraketu Pandey	KashiNath Pandey	Amwa	Kuchaikote	9431407540	26°35'54" N	84°21'54" E											
35	Aansh Kumar	Ramanuj Prasad	Pahadpur	Kuchaikote	9430401784	26°33'53" N	84°19'24" E											
36	Malu Manjhi	Gulab Manjhi	Bhitbhewra	Gopalganj	9473448796	26°40'33" N	84°53'18" E											
37	Niranjan Shahi	Ashok Shahi	Balathari	Kuchaikote	7779999020	26°40'33" N	84°53'18" E											
38	Bidyarthi Bhagat	Saryu Bhagat	Kuchaikote	Kuchaikote	7250959002	26°33'53" N	84°19'22" E											
39	Wokil Prasad	Khedaru Bhagat	Kuchaikote	Kuchaikote	9006455473	26°33'53" N	84°19'22" E											
40	Santosh Tiwari	Rajmangal Tiwari	Sipaya	Kuchaikote	8292378900	26°34'27" N	84°22'42" E											
41	Devendra Dubey	Duneya Dubey	Sipaya	Kuchaikote	9199341034	26°34'27" N	84°22'42" E											
42	Krishna Yadav	Babunand Yadav	KalaMatihiniya	Kuchaikote	9939463134	26°33'53" N	84°19'58" E											
43	Bholi Shah	Manbodh Sah	MatihiniyaSallehpur	Kuchaikote	9576252199	26°34'27" N	84°22'46" E											
44	Vijay Shah	Raganath Sah	MatihiniyaSallehpur	Kuchaikote	9801040772	26°34'27" N	84°22'46" E											
45	Ratnesh kumar	Bhagat choudhary	Rajpur	Kuchaikote	8572073163	26°33'34" N	84°25'21" E											

46	Alok Kumar	Chandrika Prasad	Baluwa	Kuchaikote	2572453773	26°33'34" N	84°25'22" E										
47	Sonu Kumar	Mohan Rai	Sisawa	Kuchaikote	9955257397	26°33'53" N	84°19'25" E										
48	Arvind Singh	Jagarnath Singh	Hariharpur	Gopalganj	9162581865	26°39'37" N	84°55'24" E										
49	Sarju Kumar	Suresh Rai	Madhopur	Gopalganj	9162571265	26°34'13" N	84°24'10" E										
50	Kamlesh Shah	Ekabal Sah	Kahla	Barauli	8631428623	26°39'33" N	84°55'12" E										

**B) Crop 2: Rapeseed (R. Suflam)(Rabi 2016-17)**

Sl. No	Name of farmer	Father's name	Village	Block	Mobile No.	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Recommendations based on soil test value	Brief technology intervention	Variety	Seed quantity used	Demo. Yield (q/ha)			Yield of local check q/ha	% increase
						Lat.	Long.						H	L	A		
1	1. Sanjay Kumar Singh	Late Sajawal Singh	Karariya	Gopalganj	9971030525	26°38'34" N	84°52'22" E	-	-	Variety	R. Suflam	2.0	16	13.5	14.25	8.5	73
2	2. Sambhu Singh	Late Sajawal Singh	Karariya	Gopalganj	9955031663	26°38'34" N	84°52'22" E					2.0					
3	Jogendra Singh	Jai kant Singh	Kharharwa	Uchakagaon	9934660905	26°33'53" N	84°19'48" E					2.0					
4	Ramakant Dubey	Lete Krishndeev Dubey	Sipaya	Kuchaikote	9852366221	26°34'27" N	84°22'42" E					2.0					
5	Naga Ram	Late Mahadav Ram	Bhitbherwa	Gopalganj	9271091315	26°40'33" N	84°53'18" E					2.0					
6	Sadanand Shah	Kailspati Singh	Bhitbherwa	Gopalganj	9431217090	26°40'33" N	84°53'18" E					2.0					

7	Babita devi	Sontosh Singh	Bhitbherwa	Gopalganj	94734 48796	26°40'3 3" N	84°53' 18" E					2.0					
8	Ranjendra Ram	Bikrama Ram	Bhitbherwa	Gopalganj	82947 88540	26°40'3 3" N	84°53' 18" E					2.0					
9	OmPrakash Singh	Piparu	Bhitbherwa	Gopalganj	99342 12012	26°40'3 3" N	84°53' 18" E					2.0					
10	Suresh Kumar	Bachcha Kunwar	Sallehpur	Kuchaikote	99314 15929	26°34'2 7" N	84°22' 45" E					2.0					
11	Yuvraj Yadav	Tilak Yadav	ShyamPur	Kuchaikote	90973 12181	26°35'5 4" N	84°21' 54" E					2.0					
12	Bidyarthi Bhagat	Saryu Bhagat	Kuchaikote	Kuchaikote	72509 59002	26°33'5 3" N	84°19' 22" E					2.0					
13	Chotelal Shah	Mahesh Sah	Purkhas	Kuchaikote	70707 70820	26°34'2 7" N	84°22' 46" E					2.0					
14	Rameshwar tiwari	Devanand Tiwari	SipayaDubyTola	Kuchaikote		26°34'1 9" N	84°22' 43" E					2.0					
15	Sanjiv Kumar	Rajendra Ray	ShyamPur	Kuchaikote	99312 25610	26°35'5 4" N	84°21' 54" E					2.0					
16	Sudhir Shukla	Madan Sukala	TiwariMatihiniya	Kuchaikote	90064 09675	26°33'5 3" N	84°19' 58" E					2.0					
17	Binod Yadav	Raja Ram Yadav	RampurTengrahi	Gopalganj	89863 60518	26°34'1 3" N	84°24' 14" E					2.0					
18	RamPravesh Yadav	Devnandan Yadav	RampurTengrahi	Gopalganj	95467 50065	26°34'1 3" N	84°24' 14" E					2.0					
19	Rampriti Yadav	Devnandan Yadav	RampurTengrahi	Gopalganj	99730 18143	26°34'1 3" N	84°24' 14" E					2.0					
20	Basudev Yadav	Devnandan Yadav	RampurTengrahi	Gopalganj		26°34'1 3" N	84°24' 14" E					2.0					
21	Janardan Yadav	Ramabadh Yadav	RampurTengrahi	Gopalganj		26°34'1 3" N	84°24' 14" E					2.0					
22	Ramod Yadav	Ramnarayan Yadav	RampurTengrahi	Gopalganj	80837 44771	26°34'1 3" N	84°24' 14" E					2.0					
23	Bashistha Yadav	Gorakh Yadav	RampurTengrahi	Gopalganj		26°34'1 3" N	84°24' 14" E					2.0					
24	Laxman Singh	RamPrasad Singh	RampurTengrahi	Gopalganj	99396 76236	26°34'1 3" N	84°24' 14" E					2.0					
25	OmPrakash Yadav	Chandrika Yadav	RampurTengrahi	Gopalganj	85210 76446	26°34'1 3" N	84°24' 14" E					2.0					

26	Jagat Singh	Laldev Singh	RampurTe ngra	Gopalga nj	99349 30458	26°34'1 3" N	84°24' 14" E					2.0					
27	Dhananjay Kuber	Bachcha Kuber	Sallehpur	Kuchaik ote	99312 25757	26°34'2 7" N	84°22' 45" E					2.0					
28	SubhasChandr a Tiwari	Ram Chandra Tiwari	TiwariMat ihiniya	Kuchaik ote	80848 57103	26°33'5 3" N	84°19' 58" E					2.0					
29	Vokil Yadav	Vira Yadav	KalaMatih iniya	Kuchaik ote		26°33'5 3" N	84°19' 58" E					2.0					
30	Manoj Rai	NandKishor Ray	Dhebwa	Kuchaik ote	97718 81629	26°33'5 3" N	84°19' 24" E					2.0					
31	Anil Rai	Daya Kishor Ray	Dhebwa	Kuchaik ote	99842 25027	26°33'5 3" N	84°19' 24" E					2.0					
32	Wokil Prasad	Khedaru Bhagat	Kuchaikot e	Kuchaik ote	90064 55413	26°33'5 3" N	84°19' 22" E					2.0					
33	Ramchandra Sharma	Sher Shankar Sharma	KalaMatih iniya	Kuchaik ote	95469 54930	26°33'5 3" N	84°19' 58" E					2.0					
34	Harishchandra Singh	RajaRam Singh	KhemMat ihiniya	Kuchaik ote	72776 60620	26°34'3 5" N	84°23' 20" E					2.0					
35	Ashok Singh	Ram Ekawal Singh	KhemMat ihiniya	Kuchaik ote		26°34'3 5" N	84°23' 20" E					2.0					
36	Vindhyachal Pandey	Nevdeshwar Pandey	Khela gaon	Bhore	99557 54645	26°33'3 0" N	84°21' 10" E					2.0					
37	MadanYadav	Basun Yadav	KhemMat ihiniya	Kuchaik ote	95729 51550	26°34'3 5" N	84°23' 20" E					2.0					
38	Upendra Thakur	Ganesh Thakur	KhemMat ihiniya	Kuchaik ote	98529 50143	26°34'3 5" N	84°23' 20" E					2.0					
39	Manoj Rai	Shankar Rai	Sipaya	Kuchaik ote	99732 16207	26°34'2 7" N	84°22' 42" E					2.0					
40	Majistar Rai	Chaner Rai	Bhagwanp ur	Gopalga nj	95461 06623	26°34'3 3" N	84°23' 20" E					2.0					
41	Babloo Tiwari	Krishna Tiwari	VinodMat ihiniya	Kuchaik ote	99731 34643	26°33'5 4" N	84°19' 28" E					2.0					
42	Mrityunjay Kumar	Kedarnath Prasad	Rupchap	Kuchaik ote	99392 46426	26°34'5 0" N	84°22' 58" E					2.0					
43	Ashok Yadav	Tilak Yadav	Rupchap	Kuchaik ote	99342 63501	26°34'5 0" N	84°22' 58" E					2.0					
44	RaviShanker Ram	Birana Rai	Rupchap	Kuchaik ote	90062 96419	26°34'5 0" N	84°22' 58" E					2.0					



64	Bhuna Yadav	Sodagar Yadav	Bisunpur	Kuchaikote	99398 93527	26°34'1 3" N	84°24' 17" E					2.0					
65	Chitranjan Manjhi	Munni Shahi	Balathari	Kuchaikote	98526 53310	26°33'5 3" N	84°19' 25" E					2.0					
66	MadhuMala Devi	Ramanuj Prasad	Pahadpur	Kuchaikote	91625 82520	26°33'5 3" N	84°19' 24" E					2.0					
67	Nagendra Dubey		Braiya	Kuchaikote		26°33'5 2" N	84°19' 48" E					2.0					
68	Rajesh Pandey	Kashi Narayad Pandey	Amwa	Kuchaikote	80830 67101	26°35'5 4" N	84°21' 54" E					2.0					
69	Pramod Kushwaha	Chandrama Kushwaha	KalaMatih iniya	Kuchaikote	98012 65886	26°33'5 3" N	84°19' 58" E					2.0					
70	Musafir Ram	Mhashrey Ray	DurgMati hiniya	Kuchaikote	97718 30675	26°34'3 3" N	84°23' 17" E					2.0					
71	Md. Hazrat	L.t. Md. Hadis Ali	DurgMati hiniya	Kuchaikote	88049 94329	26°34'3 3" N	84°23' 17" E					2.0					
72	Nazir Hussain	Lt. Hadish Miyan	Baraipatti	Gopalganj	90977 51165	26°34'1 3" N	84°24' 14" E					2.0					
73	Anup Rai	Lt. Ajay Rai	KalaMatih iniya	Kuchaikote	97710 95323	26°33'5 3" N	84°19' 58" E					2.0					
74	UdaiNarayan Rai	Mahashray Ray	KalaMatih iniya	Kuchaikote	99316 70799	26°33'5 3" N	84°19' 58" E					2.0					
75	Ramayan Shah	Banbari Sah	Baraipatti	Gopalganj	85070 23121	26°34'1 3" N	84°24' 14" E					2.0					

**C) Crop 3: Lentil (HUL 57) (Rabi 2016-17) Result awaited**

	Name of farmer	Father's name	Village	Block	Mobile No.	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Recommendations based on soil test value	Brief technology intervention	Variety	Seed quantity used	Demo. Yield (q/ha)			Yield of local check q/ha	% increase
						Latitude	Longitude						H	L	A		
1	Bundela Yadav	Ramshakal Yadav	BhojChapar	Kuchai kote	9771649 331	26°34'44" N	84°19'23" E										

2	GauriShanker Yadav	Sahrel Yadav	BhojChapar	Kuchai kote	8873131087	26°34'44" N	84°19'23" E										
3	Ramakant Prasad	Shakal Prasad	Pahadpur	Kuchai kote		26°33'53" N	84°19'24" E										
4	Ranjeet Pandey	Chanderketu Pandey	Amawa vijaypur	Kuchai kote	9431407540	26°35'54" N	84°21'54" E										
5	Pankaj Kumar	Nagendra Dubey	Bsaiya	Kuchai kote		26°34'44" N	84°19'24" E										
6	Rajesh Rai	Abhadh Rai	Sipaya	Kuchai kote	9525864688	26°34'27" N	84°22'42" E										
7	Tripurari Kumar	KedarNath Prasad	Rupchap	Kuchai kote	9939246426	26°34'50" N	84°22'58" E										
8	Lalbabu Prasad	Kedar Prasad	Sasamusa	Kuchai kote	9905427627	26°34'44" N	84°17'21" E										
9	Rabindra Dubey	Sudhir Dubey	Sipaya	Kuchai kote	9006413271	26°34'27" N	84°22'42" E										
10	Kedar Prasad	Pahlad Prasad	DurgMatihini ya	Kuchai kote	7272944857	26°34'33" N	84°23'17" E										
11	Jaiprakash Singh	Ram Prakash Singh	Ekdenga	Hathu wa	9234271148	26°38'52" N	84°25'24" E										
12	Vyas Yadav	Harilal Yadav	Kermaini	Kuchai kote	9162739247	26°33'53" N	84°19'22" E										
13	Ashok Rai	Sachitanandan Rai	Sipaya	Kuchai kote	9199459688	26°34'27" N	84°22'42" E										
14	Ekbal Rai	Radhunath Rai	Sipaya	Kuchai kote	9162581865	26°34'27" N	84°22'42" E										
15	Surendra Rai	Okil Rai	Sipaya	Kuchai kote		26°34'27" N	84°22'42" E										
16	Satendra Prasad	Rajaram Prasad	Khergaili	Kuchai kote	950463196	26°33'53" N	84°19'23" E										
17	Deepak Kumar	Mohan Prasad	Rupchap	Kuchai kote	9934449891	26°34'50" N	84°22'58" E										
18	Mahatam Rai	Brijhan Rai	Rupchap	Kuchai kote	8809493224	26°34'50" N	84°22'58" E										
19	RamKumar Singh	Kailashpati Singh	Bhitbherwa	Gopalganj	9430909666	26°40'33" N	84°53'18" E										
20	Santosh kumar	Luxmin Singh	Bhitbherwa	Gopalganj	9473448796	26°40'33" N	84°53'18" E										

21	Basant Kumar		Mohanpur	Kuchai kote	9931940 997	26°33'53" N	84°19'24" E										
22	Subash Yadav	Tilak Yadav	Rupchap	Kuchai kote	9934263 501	26°34'50" N	84°22'58" E										
23	Bhagwati Tiwari	Jugeshwar Tiwari	DhalaSipaya	Kuchai kote	9199040 375	26°34'27" N	84°22'40" E										
24	Vijay Prasad	Sudama Prasad	KhemMatihiniya	Kuchai kote	9852426 615	26°34'33" N	84°23'20" E										
25	Kashinath Singh	Jugeshwar Tiwari	Tola Sipaya	Kuchai kote		26°34'27" N	84°22'42" E										
26	Ramesh Kumar Ram	Shankar Ram	Iswarpatti	Kuchai kote	9661923 537	26°34'33" N	84°23'25" E										
27	Jitendra Rai	Vidya Rai	Sipaya	Kuchai kote	7273862 212	26°34'27" N	84°22'43" E										
28	Ramprawesh Prasad	Rajroshan Prasad	KhemMatihiniya	Kuchai kote	8804020 006	26°34'33" N	84°23'20" E										
29	Daroga Yadav	Chhuli Yadav	Busunpura	Kuchai kote	9939393 527	26°34'13" N	84°24'17" E										
30	Rajesh Rai	Shankar Rai	Sipaya	Kuchai kote	9773216 207	26°34'27" N	84°22'42" E										
31	Birendra Rai	Sivnath Rai	Sipaya	Kuchai kote	8651890 473	26°34'27" N	84°22'42" E										
32	Rajiv Kumar	Anil kumar	KhemMatihiniya	Kuchai kote	8809537 45	26°34'33" N	84°23'20" E										
33	Chathu kumar Sah	Shankar Sah	KhemMatihiniya	Kuchai kote	8804274 873	26°34'33" N	84°23'20" E										
34	Bhabhikhan Prasad	Kapildev Prasad	KhemMatihiniya	Kuchai kote	7277965 690	26°34'33" N	84°23'20" E										
35	Amrendra Nath Upadhyay	Haarendra Nat Upadhyay	Bhishambherpur	Kuchai kote	9931989 657	26°34'33" N	84°23'20" E										
36	Haricharan Prasad	Sivpujan Prasad	KhemMatihiniya	Kuchai kote	8809337 452	26°34'33" N	84°23'20" E										
37	Balistar Rai	Rajendra Rai	Sipaya	Kuchai kote	7277783 346	26°34'27" N	84°22'42" E										
38	Ajay kumar singh	Pahlad Prasad	KhemMatihiniya	Kuchai kote		26°34'33" N	84°23'20" E										
39	Binod kumar Singh	Chandra Prakash Singh	Sukulwakhurd	Thawe	9431273 866	26°22'10" N	84°25'18" E										

40	Ganesh Pandey	Devnandan Pandey	Bhohawar	Kuchai kote	9525211 514	26°34'27" N	84°22'41" E										
41	Rajesh Sah	Ganesh Sah	VinodMatihiniya	Kuchai kote	7325025 027	26°33'54" N	84°19'28" E										
42	Wakil Yadav	Bira yadav	VinodMatihiniya	Kuchai kote		26°33'54" N	84°19'28" E										
43	RaviShanker	Achhelal Yadav	KhemMatihiniya	Kuchai kote	8986157 380	26°34'33" N	84°23'20" E										
44	Arjun kumar Gupta	Kushewar Prasad	Sallehpur	Kuchai kote	9431875 029	26°34'27" N	84°22'45" E										
45	Basistha Yadav	Gorkha Yadav	Rampur Tengrahi	Gopalganj	9801042 905	26°34'13" N	84°24'14" E										
46	Mohan Yadav	Rajaram Yadav	Rampur Tengrahi	Gopalganj	9931989 812	26°34'13" N	84°24'14" E										
47	Dyanand Prasad	Jattu Bhagat	Bisunpura	Kuchai kote	9572023 436	26°34'13" N	84°24'17" E										
48	Wokil Yadav	Shiv Yadav	Bisunpura	Kuchai kote	9801811 206	26°34'13" N	84°24'17" E										
49	Umesh Prasad	Ram Prasad	Bisunpura	Kuchai kote	8294264 018	26°34'13" N	84°24'17" E										
50	Sonu Yadav	Shrikushun	Bisunpura	Kuchai kote	9939352 739	26°34'13" N	84°24'17" E										
51	Upendra Yadav	Daroga Yadav	Bisunpura	Kuchai kote	7250885 374	26°34'13" N	84°24'17" E										
52	Munna Prasad	Krishna Prasad	Bisunpura	Kuchai kote		26°34'13" N	84°24'17" E										
53	Prabhu Sah	Jitan Sah	Bisunpura	Kuchai kote	8294379 640	26°34'13" N	84°24'17" E										
54	Bikram Prasad	Gajadhar Prasad	Bhishambherpur	Kuchai kote	8801041 191	26°34'33" N	84°23'20" E										
55	Bairistar Prasad	Ramavatar Prasad	KhemMatihiniya	Kuchai kote		26°34'33" N	84°23'20" E										
56	Bisesar singh	Majister Singh	Karariya	Kuchai kote	9431059 451	26°38'34" N	84°52'22" E										
57	Basudev Yadav	Devanandan Yadav	Bhagwanpur	Kuchai kote		26°34'33" N	84°23'20" E										
58	Ravishanker Rai	Birna Yadav	Rupchap	Kuchai kote	9006296 419	26°34'50" N	84°22'58" E										

59	Munna kumar Yadav	Ramprit Yadav	Bhagwanpur	Kuchai kote	7277557 285	26°34'33" N	84°23'20" E										
60	Upendra Yadav	Ramprवेश Yadav	Bhagwanpur	Kuchai kote		26°34'33" N	84°23'20" E										
61	Umashanker Yadav	Birna Yadav	Rupchap	Kuchai kote	9006955 262	26°34'50" N	84°22'58" E										
62	Mohan Pandey	Ramadhyan Pandey	Baliwan Sagar	Kuchai kote	7090426 731	26°33'53" N	84°19'58" E										
63	Sanjay Sah	Jhagru Sah	Baliwan Sagar	Kuchai kote	9523468 182	26°33'53" N	84°19'58" E										
64	Keshav Prasad Singh	Ramshray Prasad Singh	KhemMatihiniya	Kuchai kote	7519889 564	26°34'33" N	84°23'20" E										
65	Anuj Kumar	Santosh Rai	KhemMatihiniya	Kuchai kote	9934224 084	26°34'33" N	84°23'20" E										
66	Dhermendra Kumar	Kanhaiya Rai	KhemMatihiniya	Kuchai kote	7277027 959	26°34'33" N	84°23'20" E										
67	Chandan Mishra	Brindera Mishra	Ramdas Baghi	Kateya	9934631 753	26°33'29" N	84°21'20" E										
68	Hareram Dubey	Nakdev Dubey	NandPari	Panchdevri	8507040 290	26°35'40" N	84°27'27" E										
69	JaiPrakash Pandey	Kameshwar Pandey	Bisunpur	Kuchai kote		26°34'13" N	84°24'17" E										
70	Sandip kumar	Brijkishor Pandey	Bisunpur	Kuchai kote		26°34'13" N	84°24'17" E										
71	Ramakant Rai	Birna Rai	Rupchap	Kuchai kote	9852919 494	26°34'50" N	84°22'58" E										
72	Surendra Singh	Ramchandra Singh	KalaMatihiniya	Kuchai kote	9771887 156	26°33'53" N	84°19'58" E										
73	Arjun Rai	Okil Rai	KhemMatihiniya	Kuchai kote	9934709 936	26°34'35" N	84°23'20" E										
74	Ashok Rai	Mangal Rai	Baripatti	Kuchai kote	9971041 293	26°34'13" N	84°24'14" E										
75	ShreeRam Pandey	Rajnarayan Pandey	Bhojchapar	Kuchai kote	9955663 978	26°34'44" N	84°19'23" E										

### 3.3 Achievements on Training (Including the sponsored and FLD training programmes):

#### A) Farmers and farm women (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
<b>I. Crop Production</b>													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops )													
<b>II. Horticulture</b>													
<b>a) Vegetable Crops</b>													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and Pruning													
<b>b) Fruits</b>													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
<b>c) Ornamental Plants</b>													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Others, if any													
<b>d) Plantation crops</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>e) Tuber crops</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>f) Spices</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>g) Medicinal and Aromatic Plants</b>													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
<b>III. Soil Health and Fertility Management</b>													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
<b>IV. Livestock Production and Management</b>													
Dairy Management													
Poultry Management	2	5	36	41	1	29	30	0	0	0	6	65	71
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any Goat farming	1	14	0	14	4	11	15	0	0	0	18	11	29
<b>V. Home Science/Women empowerment</b>													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for													

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
high nutrient efficiency diet														
Minimization of nutrient loss in processing														
Gender mainstreaming through SHGs														
Storage loss minimization techniques														
Enterprise development														
Value addition														
Income generation activities for empowerment of rural Women														
Location specific drudgery reduction technologies														
Rural Crafts														
Capacity building														
Women and child care														
Others, if any														
<b>VI. Agril. Engineering</b>														
Installation and maintenance of micro irrigation systems														
Use of Plastics in farming practices														
Production of small tools and implements														
Repair and maintenance of farm machinery and implements														
Small scale processing and value addition														
Post Harvest Technology														
Others, if any														
<b>VII. Plant Protection</b>														
Integrated Pest Management														
Integrated Disease Management														
Bio-control of pests and diseases														
Production of bio control agents and bio pesticides														
Others, if any														
<b>VIII. Fisheries</b>														
Integrated fish farming														
Carp breeding and hatchery management														
Carp fry and fingerling rearing														
Composite fish culture & fish disease														
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond														
Hatchery management and culture of freshwater prawn														
Breeding and culture of ornamental fishes														
Portable plastic carp hatchery														
Pen culture of fish and prawn														
Shrimp farming														
Edible oyster farming														

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Pearl culture														
Fish processing and value addition														
Others, if any														
<b>IX. Production of Inputs at site</b>														
Seed Production														
Planting material production														
Bio-agents production														
Bio-pesticides production														
Bio-fertilizer production														
Vermi-compost production														
Organic manures production														
Production of fry and fingerlings														
Production of Bee-colonies and wax sheets														
Small tools and implements														
Production of livestock feed and fodder														
Production of Fish feed														
Others, if any														
<b>X. Capacity Building and Group Dynamics</b>														
Leadership development														
Group dynamics														
Formation and Management of SHGs														
Mobilization of social capital														
Entrepreneurial development of farmers/youths														
WTO and IPR issues														
Others, if any														
XI Agro-forestry														
Production technologies														
Nursery management														
Integrated Farming Systems														
<b>XII. Others (Pl. Specify)</b>														
<b>TOTAL</b>	3	19	36	55	5	40	45	0	0	0	24	76	100	

### B) Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Mushroom Production														
Bee-keeping														
Integrated farming														
Seed production														
Production of organic inputs														
Integrated Farming														
Planting material production														
Vermi-culture														
Sericulture														
Protected cultivation of vegetable crops														

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	10	0	10	0	0	0	0	0	0	10	0	10
Ornamental fisheries													
Enterprise development													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
TOTAL	1	10	0	10	0	0	0	0	0	0	10	0	10

### C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops													
Value addition													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals	1	23	1	24	0	0	0	0	0	0	23	1	24
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
<b>TOTAL</b>													

### D) Farmers and farm women (off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
<b>I. Crop Production</b>													
Weed Management	1	20	2	22	3	0	3	0	0	0	23	2	25
Resource Conservation Technologies	1	24	0	24	1	0	1	0	0	0	25	0	25
Cropping Systems	6	120	0	120	23	17	40	0	0	0	143	17	160
Crop Diversification													
Integrated Farming													
Water management	2	52	0	52	6	3	9	0	0	0	58	3	61
Seed production													
Nursery management	1	18	0	18	4	4	8	0	0	0	22	4	26
Integrated Crop Management													
Fodder production													
Production of organic	2	39	0	39	7	4	11	0	0	0	46	4	50

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
inputs													
Others, (cultivation of crops )	12	241	3	244	50	17	67	0	0	0	291	20	311
Others, (Fertilizer management)	1	18	2	20	3	0	3	0	0	0	21	2	23
<b>II. Horticulture</b>													
<b>a) Vegetable Crops</b>													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and Pruning													
<b>b) Fruits</b>													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
<b>c) Ornamental Plants</b>													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
<b>d) Plantation crops</b>													
Production and Management technology													
Processing and value addition													
Others, if any													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
<b>e) Tuber crops</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>f) Spices</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>g) Medicinal and Aromatic Plants</b>													
Nursery management													
Production and management technology													
Post harvest technology and value addition	1	17	0	17	7	2	9	0	0	0	24	2	26
Others, if any													
<b>III. Soil Health and Fertility Management</b>													
Soil fertility management	2	43	0	43	2	7	9	0	0	0	45	7	52
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
<b>IV. Livestock Production and Management</b>													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management	6	117	98	215	9	2	11	0	0	0	126	100	226
Feed management	2	58	5	63	10	1	11	0	0	0	68	6	74
Production of quality animal products	1	24	4	28	0	0	0	0	0	0	24	4	28
Others, if any Goat farming													
<b>V. Home Science/Women empowerment</b>													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
<b>VI. Agril. Engineering</b>													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
<b>VII. Plant Protection</b>													
Integrated Pest Management	15	293	42	335	75	3	78	0	0	0	368	45	413
Integrated Disease Management	8	173	10	183	41	2	43	0	0	0	214	12	226
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
<b>VIII. Fisheries</b>													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Hatchery management and culture of freshwater prawn														
Breeding and culture of ornamental fishes														
Portable plastic carp hatchery														
Pen culture of fish and prawn														
Shrimp farming														
Edible oyster farming														
Pearl culture														
Fish processing and value addition														
Others, if any														
<b>IX. Production of Inputs at site</b>														
Seed Production														
Planting material production														
Bio-agents production														
Bio-pesticides production														
Bio-fertilizer production														
Vermi-compost production														
Organic manures production														
Production of fry and fingerlings														
Production of Bee-colonies and wax sheets														
Small tools and implements														
Production of livestock feed and fodder														
Production of Fish feed														
Others, if any														
<b>X. Capacity Building and Group Dynamics</b>														
Leadership development														
Group dynamics														
Formation and Management of SHGs														
Mobilization of social capital														
Entrepreneurial development of farmers/youths														
WTO and IPR issues														
Others, if any														
<b>XI Agro-forestry</b>														
Production technologies														
Nursery management														
Integrated Farming Systems														
<b>XII. Others (Pl. Specify)</b>														
<b>TOTAL</b>	61	1257	166	1423	241	62	303	0	0	0	1498	228	1726	

### E) RURAL YOUTH (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs	2	40	6	46	5	0	5	0	0	0	45	6	51
Integrated Farming	1	20	3	23	3	0	3	0	0	0	23	3	26
Planting material production													
Vermi-culture	1	20	0	20	2	3	5	0	0	0	22	3	25
Sericulture													
Protected cultivation of vegetable crops	2	40	3	43	7	0	7	0	0	0	47	3	50
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing	1	18	0	18	3	3	6	0	0	0	21	3	24
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any													
<b>TOTAL</b>	<b>7</b>	<b>138</b>	<b>12</b>	<b>150</b>	<b>20</b>	<b>6</b>	<b>26</b>				<b>158</b>	<b>18</b>	<b>176</b>

## F) Extension Personnel (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops	3	102	7	109	12	0	12	0	0	0	114	7	121
Integrated Pest Management	8	186	8	194	38	0	38	0	0	0	224	8	232
Integrated disease Management	2	60	9	69	14	0	14	0	0	0	74	9	83
Integrated Nutrient management	2	71	6	77	11	0	11	0	0	0	82	6	88
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs	1	37	5	42	6	0	6	0	0	0	43	5	48
Gender mainstreaming through SHGs													
Crop intensification													
<b>TOTAL</b>	<b>16</b>	<b>456</b>	<b>35</b>	<b>491</b>	<b>81</b>	<b>0</b>	<b>81</b>				<b>537</b>	<b>35</b>	<b>572</b>

## G) Consolidated table (ON and OFF Campus)

### i. Farmers & Farm Women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
<b>I. Crop Production</b>													
Weed Management	1	20	2	22	3	0	3	0	0	0	23	2	25
Resource Conservation Technologies	1	24	0	24	1	0	1	0	0	0	25	0	25
Cropping Systems	6	120	0	120	23	17	40	0	0	0	143	17	160
Crop Diversification													
Integrated Farming													
Water management	2	52	0	52	6	3	9	0	0	0	58	3	61
Seed production													
Nursery management	1	18	0	18	4	4	8	0	0	0	22	4	26
Integrated Crop Management													
Fodder production													
Production of organic inputs	2	39	0	39	7	4	11	0	0	0	46	4	50
Others, (cultivation of crops )	12	241	3	244	50	17	67	0	0	0	291	20	311
Others, (Fertilizer management )	1	18	2	20	3	0	3	0	0	0	21	2	23
<b>TOTAL</b>	<b>26</b>	<b>532</b>	<b>7</b>	<b>539</b>	<b>97</b>	<b>45</b>	<b>142</b>				<b>629</b>	<b>52</b>	<b>681</b>
<b>II. Horticulture</b>													
<b>a) Vegetable Crops</b>													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
<b>TOTAL</b>													
<b>b) Fruits</b>													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
<b>TOTAL</b>													
<b>c) Ornamental Plants</b>													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
<b>TOTAL</b>													
<b>d) Plantation crops</b>													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Production and Management technology													
Processing and value addition													
Others, if any													
<b>TOTAL</b>													
<b>e) Tuber crops</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>TOTAL</b>													
<b>f) Spices</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>TOTAL</b>													
<b>g) Medicinal and Aromatic Plants</b>													
Nursery management													
Production and management technology													
Post harvest technology and value addition	1	17	0	17	7	2	9	0	0	0	24	2	26
Others, if any													
<b>TOTAL</b>	<b>1</b>	<b>17</b>	<b>0</b>	<b>17</b>	<b>7</b>	<b>2</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>2</b>	<b>26</b>
<b>III. Soil Health and Fertility Management</b>													
Soil fertility management	2	43	0	43	2	7	9	0	0	0	45	7	52
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
<b>TOTAL</b>	<b>2</b>	<b>43</b>	<b>0</b>	<b>43</b>	<b>2</b>	<b>7</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>7</b>	<b>52</b>
<b>IV. Livestock Production and Management</b>													
Dairy Management													
Poultry Management	2	5	36	41	1	29	30	0	0	0	6	65	71
Piggery Management													
Rabbit Management													
Disease Management	6	117	98	215	9	2	11	0	0	0	126	10	226
Feed management	2	58	5	63	10	1	11	0	0	0	68	6	74
Production of quality animal products	1	24	4	28	0	0	0	0	0	0	24	4	28
Others, if any (Goat farming)	1	14	0	14	4	11	15	0	0	0	18	11	29
<b>TOTAL</b>	<b>12</b>	<b>218</b>	<b>143</b>	<b>361</b>	<b>24</b>	<b>43</b>	<b>67</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>242</b>	<b>18</b>	<b>428</b>
<b>V. Home Science/Women empowerment</b>													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Gender mainstreaming through SHGs														
Storage loss minimization techniques														
Enterprise development														
Value addition														
Income generation activities for empowerment of rural Women														
Location specific drudgery reduction technologies														
Rural Crafts														
Capacity building														
Women and child care														
Others, if any														
<b>TOTAL</b>														
<b>VI. Agril. Engineering</b>														
Installation and maintenance of micro irrigation systems														
Use of Plastics in farming practices														
Production of small tools and implements														
Repair and maintenance of farm machinery and implements														
Small scale processing and value addition														
Post Harvest Technology														
Others, if any														
<b>TOTAL</b>														
<b>VII. Plant Protection</b>														
Integrated Pest Management	15	293	42	335	75	3	78	0	0	0	368	45	413	
Integrated Disease Management	8	173	10	183	41	2	43	0	0	0	214	12	226	
Bio-control of pests and diseases														
Production of bio control agents and bio pesticides														
Others, if any														
<b>TOTAL</b>	<b>23</b>	<b>466</b>	<b>52</b>	<b>518</b>	<b>116</b>	<b>5</b>	<b>121</b>				<b>582</b>	<b>57</b>	<b>639</b>	
<b>VIII. Fisheries</b>														
Integrated fish farming														
Carp breeding and hatchery management														
Carp fry and fingerling rearing														
Composite fish culture & fish disease														
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond														
Hatchery management and culture of freshwater prawn														
Breeding and culture of ornamental fishes														
Portable plastic carp hatchery														
Pen culture of fish and prawn														
Shrimp farming														
Edible oyster farming														
Pearl culture														
Fish processing and value addition														
Others, if any														
<b>TOTAL</b>														
<b>IX. Production of Inputs at site</b>														
Seed Production														
Planting material production														
Bio-agents production														
Bio-pesticides production														

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
<b>X. Capacity Building and Group Dynamics</b>													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
<b>XI Agro-forestry</b>													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
<b>XII. Others (Pl. Specify)</b>													
TOTAL													

**ii. RURAL YOUTH (On and Off Campus)**

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs	2	40	6	46	5	0	5	0	0	0	45	6	51
Planting material production	1	20	3	23	3	0	3	0	0	0	23	3	26
Vermi-culture													
Sericulture	1	20	0	20	2	3	5	0	0	0	22	3	25
Protected cultivation of vegetable crops													
Commercial fruit production	2	40	3	43	7	0	7	0	0	0	47	3	50
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	10	0	10	0	0	0	0	0	0	10	0	10
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology	1	18	0	18	3	3	6	0	0	0	21	3	24
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)													
<b>TOTAL</b>	<b>8</b>	<b>148</b>	<b>12</b>	<b>160</b>	<b>20</b>	<b>6</b>	<b>26</b>				<b>168</b>	<b>18</b>	<b>186</b>

### iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops	3	102	7	109	12	0	12	0	0	0	114	7	121
Integrated Pest Management	8	186	8	194	38	0	38	0	0	0	224	8	232
Integrated disease management	2	60	9	69	14	0	14	0	0	0	74	9	83
Integrated Nutrient management	2	71	6	77	11	0	11	0	0	0	82	6	88
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals	1	23	1	24	0	0	0	0	0	0	23	1	24
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs	1	37	5	42	6	0	6	0	0	0	43	5	48
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
<b>TOTAL</b>	<b>17</b>	<b>479</b>	<b>36</b>	<b>515</b>	<b>81</b>	<b>0</b>	<b>81</b>				<b>560</b>	<b>36</b>	<b>596</b>

Please furnish the details of training programmes as Annexure in the proforma given below

Discipline/ date	Clientele	Title of the training programme	Durati on in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Fem ale	Total
<b>Agronomy (Practicing Farmers/Farm women)</b>										
09.04.16	P/F	Water management in paddy	1	Off	38	0	38	2	0	2
13.04.16	P/F	Green manuring	1	Off	23	2	25	3	2	5
04.06.16	P/F	Nursery management of paddy	1	Off	22	4	26	4	4	8
18.06.16	P/F	Weed management in broadcasted paddy	1	Off	23	2	25	3	0	3
19.06.16	P/F	SRI Method of paddy	1	Off	23	3	26	4	3	7
20.06.16	P/F	Cultivation of Kharif moong	1	Off	23	3	26	6	0	6
22.06.16	P/F	Mixed farming	1	Off	24	2	26	6	2	8
02.07.16	P/F	Contingency farming in drought	1	Off	23	2	25	3	2	5
14.07.16	P/F	Cultivation of Arhar	1	Off	22	2	24	2	2	4
19.07.16	P/F	Organic manuring of paddy	1	Off	23	2	25	4	2	6
20.07.16	P/F	Agro technique for maize production	1	Off	24	3	27	4	3	7
21.07.16	P/F	Fertilizer management in Sugarcane based intercropping system	1	Off	21	2	23	3	0	3
05.09.16	P/F	Contingency farming in drought	1	Off	22	4	26	4	4	8
07.09.16	P/F	Water management in Sugar cane	1	Off	20	3	23	4	3	7
14.09.16	P/F	Mixed Farming	1	Off	24	2	26	5	2	7
27.09.16	P/F	Autumn planting of sugarcane by single bud method	1	Off	25	0	25	5	0	5
28.09.16	P/F	Sugarcane based intercropping system	1	Off	24	2	26	3	2	5
01.10.16	P/F	Scientific cultivation of Rabi crops	1	Off	24	3	27	6	3	9
13.10.16	P/F	Sowing of wheat by Zero tillage	1	Off	25	0	25	1	0	1
15.10.16	P/F	Autumn planting of sugarcane	1	Off	26	0	26	2	0	2
16.10.16	P/F	Improved technique for wheat	1	Off	24	2	26	4	2	6
18.10.16	P/F	Intercropping in autumn planting of sugarcane	1	Off	26	5	31	2	5	7
23.11.16	P/F	SWI in Wheat	1	Off	23	2	25	4	2	6
25.11.16	P/F	Production technique of QPM	1	Off	24	2	26	8	2	10
05.03.17	P/F	Cultivation of Sugarcane by single bud method	1	Off	27	0	27	2	0	2
14.03.17	P/F	Production Technique of QPM	1	Off	26	0	26	3	0	3
27.03.17	P/F	Post harvest Technique for Rabi Crops	1	Off	24	2	26	7	2	9

28.03.17	P/F	Application of BGA in paddy	1	Off	23	3	26	1	3	4
29.03.17	P/F	Use of Rhizobium culture in Red Gram	1	Off	22	4	26	1	4	5
<b>Total</b>			<b>29</b>		<b>698</b>	<b>61</b>	<b>759</b>	<b>106</b>	<b>54</b>	<b>160</b>
<b>Plant Protection (Practicing Farmers/Farm women)</b>										
01.04.16	P/F	Management of insect pest in Sugarcane	1	Off	24	2	26	4	0	4
09.04.16	P/F	Management of Store grain pests	1	Off	22	3	25	5	0	5
04.05.16	P/F	IPM of cucurbit	1	Off	23	3	26	2	0	2
18.05.16	P/F	IPM in brinjal and chillies	1	Off	25	2	27	4	0	4
02.06.16	P/F	IPM of Sugarcane crop	1	Off	27	3	30	6	0	6
14.06.16	P/F	Diseases management of cucurbitaceous vegetable	1	Off	25	2	27	5	0	5
20.06.16	P/F	Diseases management in brinjal crops	1	Off	27	2	29	4	2	6
05.07.16	P/F	I.P.M. in Rice	1	Off	24	3	27	5	0	5
20.07.16	P/F	Management of borer insect pests in sugarcane crop	1	Off	26	2	28	6	0	6
04.08.16	P/F	Disease management in paddy crop	1	Off	23	3	26	5	0	5
27.08.16	P/F	IPM in sugarcane	1	Off	25	2	27	6	0	6
02.09.16	P/F	Management of insect pest in paddy crop	1	Off	24	3	27	5	0	5
27.09.16	P/F	Diseases management in sugarcane crop	1	Off	26	2	28	4	0	4
01.10.16	P/F	IPM in rabi vegetable crops	1	Off	25	5	30	6	3	9
17.10.16	P/F	Disease management in important vegetable crops	1	Off	38	0	38	8	0	8
03.11.16	P/F	IPM in rabi vegetable	1	Off	28	2	30	6	0	6
18.11.16	P/F	Diseases management in cruciferous vegetable	1	Off	27	0	27	7	0	7
05.12.16	P/F	IPM of mustard	1	Off	22	2	24	3	0	3
22.12.16	P/F	Diseases management of cole crops	1	Off	22	3	25	4	0	4
03.01.17	P/F	Management of insect pest in Mustard crops	1	Off	27	3	30	6	0	6
10.02.17	P/F	IPM in rabi vegetable crops	1	Off	22	4	26	6	0	6
11.03.17	P/F	Insect pest in cucurbitaceous vegetable	1	Off	24	6	30	5	0	5
27.03.17	P/F	Importance of seed treatment in crop production	1	Off	26	0	26	4	0	4
<b>Total</b>			<b>23</b>		<b>582</b>	<b>57</b>	<b>639</b>	<b>116</b>	<b>5</b>	<b>121</b>
<b>Animal Science (Practicing Farmers/Farm women)</b>										
24.08.16	P/F	Vaccination in cattle	1	Off	20	21	41	5	1	6
27.08.16	P/F	Control of parasite diseases in dairy animals	1	Off	17	12	29	3	1	4

07.09.16	P/F	Hygienic Milk Production	1	Off	24	4	28	0	0	0
05.10.16	P/F	Vaccination in Goat	1	Off	24	2	26	1	0	1
06.10.16	P/F	Biosecurity	1	off	38	3	41	0	0	0
20.12.16	P/F	Feeding of Goat	1	Off	42	5	47	7	0	7
23.12.16 to 24.12.16	P/F	Poultry production	2	On	5	40	45	1	17	18
26.12.16 to 27.12.16	P/F	Poultry Production	2	On	1	25	26	0	12	12
31.01.17 to 03.02.17	P/F	Goat Production	4	On	18	11	29	4	11	15
18.03.17	P/F	Year Round Fodder Production	1	Off	26	1	27	3	1	4
30.03.17 to 31.03.17	P/F	Reproductive problems in cattle	2	Off	27	62	89	0	0	0
<b>Total</b>			<b>17</b>		<b>242</b>	<b>186</b>	<b>428</b>	<b>24</b>	<b>43</b>	<b>67</b>
<b>Sponsored Training (Practicing Farmers)</b>										
21.10.16 to 27.10.16	P/F	Package and practices of Rabi Crop	7	Off	1298	73	1371	180	73	253
21 .10.16 to 27.10.16	P/F	IPM in rabi crops	7	Off	954	101	1055	84	34	118
10.01.17	P/F	Management of nutrient deficiency in rabi crops	1	Off	242	5	247	15	2	17
11.01.17	P/F	Use of different farm implement reduce cost of cultivation and increase productivity of crops	1	Off	291	17	308	16	7	23
13.01.17	P/F	Micro irrigation system in Horticulture crops	1	Off	50	3	53	5	0	5
13.2.17	P/F	Scientific cultivation of sugarcane	1	Off	200	0	200	19	0	19
13.2.17	P/F	Insect pest management in sugarcane	1	Off	200	0	200	19	0	19
17.02.17	P/F	Productivity enhancement of sugarcane	1	Off	201	0	201	11	0	11
27.02.17	P/F	Parasitic disease in livestock	1	On	123	0	123	8	0	8
28.02.17	P/F	Mastitis in Livestock	1	On	44	35	79	1	32	33
08.03.17	P/F	Scientific cultivation sugarcane	1	Off	145	10	155	20	10	30
08.03.17	P/F	Insect pest and disease management of sugarcane	1	Off	145	10	155	20	10	30
09.03.15	P/F	Scientific cultivation sugarcane	1	Off	160	5	165	10	5	15
09.03.17	P/F	Insect pest and disease management of sugarcane	1	Off	160	5	165	10	5	15
10.03.17	P/F	Scientific cultivation Summer crops	1	Off	280	10	290	55	10	65
10.03.17	P/F	Insect pest and disease management of summer Crops	1	Off	280	10	290	55	10	65
15.03.17	P/F	Use of different tools for cultivation of crop	1	Off	200	7	207	20	7	27
25.03.17	P/F	Seed production technique of sugarcane	1	Off	110	0	110	10	0	10
25.03.17	P/F	Importance of insect pest and disease management in sugarcane seed production	1	Off	110	0	110	10	0	10
<b>Total</b>			<b>31</b>		<b>5193</b>	<b>291</b>	<b>5484</b>	<b>568</b>	<b>205</b>	<b>773</b>

<b>Agronomy Rural Youth</b>										
6.05.216 to 08.05.16	R/Y	Sugarcane Based industries	3	Off	21	3	24	3	3	6
04.08.16 to 08.08.16	R/Y	Production of Vermi-compost	3	Off	22	3	25	2	3	5
20.11.16 to 22.11.16	R/Y	Integrated farming	3	Off	23	3	26	3	0	3
<b>Total</b>			<b>9</b>		<b>66</b>	<b>9</b>	<b>75</b>	<b>8</b>	<b>6</b>	<b>14</b>
<b>Plant Protection Rural Youth</b>										
18.04.16	R/Y	Protected cultivation of vegetable	1	Off	25	0	25	3	0	3
23.06.16	R/Y	Organic Farming in vegetable	1	Off	24	2	26	2	0	2
18.8.16	R/Y	Organic farming in vegetable crops	1	Off	21	4	25	3	0	3
21.11.16	R/Y	Protected cultivation of vegetable crops	1	Off	22	3	25	4	0	4
<b>Total</b>			<b>4</b>		<b>92</b>	<b>9</b>	<b>101</b>	<b>12</b>	<b>0</b>	<b>12</b>
<b>Animal Science Rural Youth</b>										
08.02.17 to 11.02.17	R/Y	Poultry Production	4	On	10	0	10	0	0	0
<b>Agronomy Extension Functionaries</b>										
23.01.17	E/F	Integrated Nutrient Management	1	Off	51	2	53	6	0	6
27.01.17	E/F	Organic farming	1	Off	43	5	48	6	0	6
28.01.17	E/F	Diversify cereal based cropping system by pulses	1	Off	47	3	50	4	0	4
14.02.17	E/F	Productivity Enhancement of Field crops	1	Off	32	4	36	4	0	4
24.02.17	E/F	Integrated Nutrient Management	1	Off	31	4	35	5	0	5
25.02.17	E/F	Diversifying Cereal Based cropping system by Pulses	1	Off	35	0	35	4	0	4
<b>Total</b>			<b>6</b>		<b>239</b>	<b>18</b>	<b>257</b>	<b>29</b>	<b>0</b>	<b>29</b>
<b>Plant Protection Extension Functionaries</b>										
17.10.16	E/F	Importance of seed and soil treatment in rabi crop production	1	Off	17	0	17	2	0	2
19.10.16	E/F	Importance of seed treatment in rabi crop production	1	Off	35	0	35	10	0	10
12.11.16	E/F	Importance of seed treatment in rabi crop	1	Off	30	0	30	5	0	5
14.12.16	E/F	IPM of rabi crops	1	Off	19	0	19	2	0	2
19.12.16	E/F	IPM of rabi crops	1	Off	15	0	15	1	0	1
02.01.17	E/F	Disease management in rabi crops	1	Off	40	5	45	6	0	6
07.01.17	E/F	IPM in rabi crops	1	Off	49	3	51	8	0	8
14.01.17	E/F	Effect of water management on insect and pest in different crops	1	Off	28	0	28	4	0	4
02.02.17	E/F	Management of Insect pest in Mango and litchi	1	Off	31	5	36	6	0	6
12.02.17	E/F	Diseases management in Mango	1	Off	34	4	38	8	0	8
<b>Total</b>			<b>10</b>		<b>298</b>	<b>17</b>	<b>314</b>	<b>52</b>	<b>0</b>	<b>52</b>

<b>Animal Science Extension Functionaries</b>										
17.05.16 to 21.05.16	E/F	Hygienic Milk Production (E/F)	5	On	23	1	24	0	0	0
<b>Total</b>			<b>5</b>		<b>23</b>	<b>1</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Sponsored Training Extension Functionaries</b>										
17.10.16	E/F	Package and Practices of rabi crops	1	Off	235	5	240	35	5	40
26.12.16 to 27.12.16	E/F	IPM of mango orchard	1	Off	166	8	174	17	0	17
10.01.17	E/F	Training on Leaf colour chart	1	Off	242	5	247	15	2	17
<b>Total</b>			<b>3</b>		<b>643</b>	<b>18</b>	<b>661</b>	<b>67</b>	<b>7</b>	<b>74</b>

*H) Vocational training programmes for Rural Youth*

*Details of training programmes for Rural Youth*

Crop / Enterprise	Identified Thrust Area	Training title *	Duration (days)	No. of Participants			Self employed after training			Number of persons employed elsewhere
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Poultry	Poultry Production	Poultry Production	4 days	10	0	10	Broiler unit (Kuroiler)	1 unit of 1000 broilers	1	2

\*training title should specify the major technology /skill transferred

### I) Sponsored Training Programmes

Sl. No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants										Sponsoring Agency
							Male			Female			Total				
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1.	Package and practices of Rabi Crop	Cultivation of Crop	October 2016	7	PF	7	1118	180		0	73	0	1118	253		1371	District Agriculture
2	Package and practices of Rabi Crop	Cultivation of Crop	October 2016	1	EF	1	200	35		0	5	0	200	40		240	District Agriculture
3	IPM in Rabi Crop	IPM	October 2016	7	PF	7	870	84		67	34		937	118		1055	District Agriculture
3.	Insect Pest management of Mango orchard	IPM	December 2016	1	EF	1	149	17		8	0		157	17		174	ATMA, Gopalganj
4	Leaf colour chart		Jan 2017	1	E/F	1	227	15		3	2		230	17		247	District Agriculture
5.	Management of nutrient deficiency in Rabi crops	INM	Jan 2017	1	PF	1	227	15		3	2		230	17		247	District Agriculture
6	Use of different farm implement reduce cost of cultivation	Cultivation crop	Jan 2017	1	PF	1	275	16		10	7		285	23		308	District Agriculture
7.	Micro irrigation system in Horticulture crop	Water management	Jan 2017	1	PF	1	45	5		3	0		48	5		53	District Agriculture
8.	Scientific cultivation of sugarcane	Cultivation of crop	Feb 2017	1	PF	1	181	19		0	0		181	19		200	Sugarcane Department

9.	Insect pest management in sugarcane	IPM	Feb	1	PF	1	181	19		0	0		181	19		200	Sugarcane Department
10.	Productivity enhancement of sugarcane	Cultivation of crop	Feb 2017	1	PF	1	190	11	0	0	0	0	201	0	0	201	Sugarcane Department
11.	Parasitic disease in livestock	Disease management	Feb 2017	1	PF	1	115	8	0	0	0	0	115	8	0	123	ATMA Gopalganj
12.	Mastitis in Live stock	Disease management	Feb 2017	1	PF	1	43	1	0	4	31	0	47	32	0	79	ATMA Gopalganj
13.	Scientific cultivation of Sugarcane	Cultivation of crop	March 2017	1	P/F	1	125	20	0	0	10	0	125	30	0	155	Sugarcane Department
14.	Insect pest and disease management in sugarcane	IPM	March 2017	1	P/F	1	125	20	0	0	10	0	125	30	0	155	Sugarcane Department
15.	Scientific cultivation of Sugarcane	Cultivation of crop	March 2017	1	P/F	1	150	10	0	0	5	0	150	15	0	165	Sugarcane Department
16.	Insect pest and disease management in sugarcane	IPM	March 2017	1	P/F	1	150	10	0	0	5	0	150	15	0	165	Sugarcane Department
17.	Scientific cultivation of Summer Crop	Cultivation of crop	March 2017	1	P/F	1	225	55	0	0	10	0	225	65	0	290	District Agriculture
18.	Insect pest and disease management of Summer Crop	Cultivation of crop	March 2017	1	P/F	1	225	55	0	0	10	0	225	65	0	290	District Agriculture
19.	Use of different tools for cultivation of crops	Cultivation of crop	March 2017	1	P/F	1	180	20	0	0	7	0	180	27	0	207	District Agriculture

20.	Seed Production technique of sugarcane	Seed production	March 2017	1	PF	1	100	10	0	0	0	0	100	10	0	110	Seed certification agency
21	Importance of insect pest and disease management in sugarcane	IPM	March 2017	1	PF	1	100	10	0	0	0	0	100	10	0	110	Seed certification agency
	<b>Total</b>			<b>34</b>		<b>34</b>	<b>5201</b>	<b>635</b>	<b>0</b>	<b>98</b>	<b>211</b>	<b>0</b>	<b>5310</b>	<b>835</b>	<b>0</b>	<b>6145</b>	

### 3.4. A. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	11	758	-	758	-	-	-	758	-	758
Kisan Mela	8	2232	28	2260	150	-	150	2382	28	2410
Kisan Ghosthi	1	250	-	250	-	-	-	250	-	250
Exhibition										
Film Show										
Method Demonstrations										
Farmers Seminar										
Workshop										
Group meetings										
Lectures delivered as resource persons	4	28	24	52	-	-	-	28	24	52
Advisory Services										
Scientific visit to farmers field		237	-	237	-	-	-	237	-	237
Farmers visit to KVK	363	363	-	363				363	-	363
Diagnostic visits										
Exposure visits	1	125	-	125	-	-	-	125	-	125
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp	2	25	34	59	-	-	-	25	34	59
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
Any Other (Specify Vaccination Camp)	5	119	-	119	-	-	-	119	-	119
<b>Total</b>	<b>395</b>	<b>4137</b>	<b>86</b>	<b>4223</b>	<b>150</b>	<b>-</b>	<b>150</b>	<b>4287</b>	<b>86</b>	<b>4373</b>

### B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	15
Radio talks	
TV talks	
Popular articles	
Extension Literature	2
Other, if any, Books	1

### 3.5 Production and supply of Technological products

#### Village seed

Crop	variety	Quantity of seed (q)	Value (Rs)	Provided to number of farmers
Total				

#### KVK farm

Crop	variety	Quantity of seed (q)	Value (Rs)	Provided to number of farmers
Wheat	HD-2967	138.0		Send to SPP,Dholi
Paddy	R. suwasini, R. kasturi	-		Damaged due to flood
Sugarcane	COP 2061, BO 153	1000		
Green Gram	PDM 139	3.0		
cowpea	CP 4	5.0		
Grand Total				

#### Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Provided to number of farmers
<b>Vegetable seedlings</b>				
Cauliflower				
Cabbage				
Tomato				
Brinjal				
Chilli				
Onion				
Others				
<b>Fruits</b>				
Mango				
Guava				
Lime				
Papaya				
Banana				
Others				
Ornamental plants				
Medicinal and Aromatic Plantation				

Spices				
Turmeric				
Tuber				
Elephant yams				
Fodder crop saplings				
Forest Species				
Others, pl.specify				
<b>Total</b>				

### Production of Bio-Products

Name of product	Quantity	Value (Rs.)	No. of Farmers
	Kg		
Bio Fertilisers			
Bio-pesticide			
Bio-fungicide			
Bio Agents			
Others			
<b>Total</b>			

### Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
<b>Grand Total</b>				

### 3.6. (A) Literature Developed/Published (with full title, author & reference)

#### Research Papers:

1. Pankaj Kumar, Bidya Shankar Sinha, **Ramakrishna Roy**, Rashmi Rekha Kumari and Abhay Kumar. (2017) . Peste-des-petits-ruminants in goats : Sero-epidemiological study in middle Indo-Gangetic Plains. Indian Journal of Animal Science. (Accepted for publication in April issue).

#### Books:

1. Mushroom Utpadan (2015). **S.K.Mandal** evam Anita Kumari. Astral International Pvt. Ltd., Ansari Road, Daryanganj, New Delhi
2. Madhumakkhi Palan. (2016). **S.K.Mandal** evam Anita Kumari. Astral International Pvt. Ltd., Ansari Road, Daryanganj, New Delhi

#### Extension Pamphlets/ Literature:

1. Garma (boro) dhan utpadan ki unnat taknik (2016) Rajendra Prasad
2. .Dhan ki seedhi buwai ki vidhi: ek safal vikalp (2016). Rajendra Prasad

### (B) Details of HRD programmes undergone by KVK personnel:

S. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Kharif workshop	State level training cum management workshop on kharif 2016	Dr.Ramakrishna Roy Programme Co-ordinator	7 <sup>th</sup> May, 2016 (one day)	RAU,Pusa
2.	Kharif Contingency meeting	Interface meeting of enhancing the preparedness for Agricultural contingencies for Bihar Kharif 2016	Dr. Ramakrishna Roy Programme Co-ordinator	30 <sup>th</sup> May, 2016 (one day)	ICAR-RCER, Patna
3.	Seed Production Training	Seed Production Training	Dr. Rajendra Prasad SMS (Agronomy)	29 <sup>th</sup> -30 <sup>th</sup> Sept., 2016 (2 days)	TCA, Dholi, Dr. R.P.C.A.U.
4.	Vermicomposting Technology	Recent Advancement in Biofertilizer and vermicomposting technology for sustaining agriculture development	Dr. Rajendra Prasad SMS (Agronomy)	12 <sup>th</sup> December, 2016 to 1 <sup>st</sup> January, 2017 (21 days)	Dr. R.P.C.A.U, Pusa
5.	Extension	Modern Extension Approaches for improved performance of extension systems”	1. Dr. Ramakrishna Roy, PC 2. Dr. Sunil Kumar Mandal SMS (Plant Protection)	17 <sup>th</sup> - 23 <sup>rd</sup> February, 2017	DEE, Dr. R.P.C.A.U, Pusa
6.	National Conference on Maize	National Conference on perspective of challenges and options in maize production and utilization	1. Dr. Ramakrishna Roy, PC	3 <sup>rd</sup> to 4 <sup>th</sup> March, 2017	Dr. R.P.C.A.U

3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)

### 1. Mixed Farming for Prosperity to small farmers

While most of the educated youth these days want a white collar job after graduation, Mr Aditya Kumar Singh of Hariharpur village was attracted to farming. He firmly believed that crop cultivation alone would not provide him substantial income with 3 acre land to live a decent standard of life. He had to diversify his income and reduce risks to survive that were suggested to him in interaction with the scientist of the Krishi Vigyan Kendra. He has to undergo trainings on crop, poultry, goat, dairy, vermi-compost and fisheries.

After being equipped with the technical expertise and the intricacies of management, vaccination, housing, feeding initially he went ahead with Goat farming. Presently he has 20 goats of Bengal, Beetal and Barbari. “Goat population increases rapidly and there are no substantial cost involved in rearing” he says to unemployed youth. Then he established a broiler unit of 500 flock size and a fish pond. The cow dung from cattle is used in the vermi-compost unit and the vermicompost and poultry litter used in farm to improve soil. He is now doing diversification but in crop cultivation as well, cultivating paddy in kharif and wheat, maize, potato, mustard and coriander in rabi.

With these combined enterprises he is now earning a net profit of Rs. 3.5 lakh annually, substantial to live a decent life. His endeavors motivate unemployed educated youth to earn rural livelihood themselves.



Vermicompost beds



Goat shed



Broiler rearing

### 2. Vegetable Production sustains family

With traditional agriculture being non remunerative Binod Kumar Singh has to explore new ways to increase income from his six acre land. The Krishi Vigyan Kendra (KVK) in the district suggested High Value Agriculture viz. cultivation of fruits and vegetables. Today he has evolved a lot and raises nursery on portrays in shed net.

He started nursery raising of vegetable and fruits in shed net and later in order to save labour cost, mechanised his farm by purchasing farm machinery and equipments. Raising seedlings in his shed net, he cultivates seasonal vegetables cabbage, cauliflower, capsicum, chillies, gourd, cucumber, carrots, tomatoes,

radish and potatoes. Mostly he does line sowing of vegetable crops in the field. He also raises G9 banana in cocopit trays.

He has firm belief that the earthworms are farmer's friends. The cow dung from his cattle find use in 10 vermi beds and the vermicompost is used in vegetable cultivation. Bees interest him so he keeps 10 boxes. With diversification in vegetable nursery and production, he has increased his net income to 4 lakh per annum. His family income comes from agriculture resources upto his satisfaction.

In recognition of his efforts to popularize vegetable production he won many awards at state and national level such as Kisan Sree and Global Agricultural Summit award. He is awe inspiring for youth and elder to get involved in vegetable production for livelihood.



Nursery raising in shed net



Cabbage cultivation



Cansicum in shed net

### 3. Remunerative Banana cultivation

Sri Manish Tiwari from Sipaya village inherited flood prone land from his father. When he approached the neighbouring Krishi Vigyan Kendra (KVK) he was suggested to put up a bund so that he could increase cropping intensity and get return on his investment by planting rows of eucalyptus trees at regular intervals and papaya on the bund, besides ensuring safety of crops from flood.

He laid a bund with money and effort; laser levelled his land, planted improved varieties of sugarcane initially but later on with District Horticulture Department went for banana plantation on large scale with variety G 9 intercropped with vegetable crops such as cauliflower and tomato.

He marketed cauliflower curds and later also seed of cauliflower. To save labour cost he makes extensive use of small farm equipments such as power weeder, rotary tiller and pump sets. For maximizing water use efficiency, drip irrigation is practised in the banana plantation. He earns a net income of Rs.4,75,000 annually from Banana cultivation alone.

His success with banana cultivation motivated other farmers in his locality to take up banana cultivation in large scale. Hence large number of banana bunches from the village finds its way to the district market and elsewhere. Social responsibility such as caring for the underprivileged marginalised "musahars" the rat-eaters find their employment in his farm.

In recognition of his effort Kisan shree has been bestowed on him by Government of Bihar.



Power weeder



Banana Farm



Eucalyptus Trees at bund

#### 4. Yam is Yummy

Mayank Dubey, village-Sipaya, Gopalganj was worried for declining productivity of paddy making existence from hand to mouth and had to increase his income to support his family.

The neighbouring Krishi Vigyan Kendra suggested his soil condition was suitable for growing tuber crops and recommended Gajendra variety of the university.

Initially he had to invest in farm expenses, tuber seed, fertilizer and neem cake which cost lot of money but he was not deterred. He borrowed money, took 5.0 ha land on lease and with full effort, determination and zeal went ahead with cultivation of yam. The scientists helped him in fertilizer use, timely diagnosis of pest, disease and remedial measures.

His farmer friends however mocked him for taking risk in a crop on large scale without known markets. They feared if anything went wrong he will have no succour with huge investment involved. After harvest he sold the produce in wholesale market.

Last year he reaped a net profit of Rs. 2 lakh/ hectare. First he paid the borrowed money and continued with the leased land. He has also saved seed for this year as it cost him substantially. He expects to cut down on his cost and have a net income of Rs. 3 lakh / hectare. For marketing, he timed his produce to the market as well. Yam being in high demand in certain festive occasions for vegetable and pickle.

His friends no longer mock at him rather feel proud of him. He proudly drives in motorcycle to his farm. His social status has improved and most of the people in the village, nearby villages and some in district know him well.



Disease diagnosis



Yam Plants

## 5. Sugarcane cultivation is sweet

Nitishwar Dubey, village-Sipaya, Gopalganj is involved in sugarcane cultivation and seed production of sugarcane as well. He was initially cultivating traditional varieties of sugarcane which has low sugar content fetching lower price from the mill owners.

The Krishi Vigyan Kendra nearby suggested him to cultivate premium variety of sugarcane COP 2061 with seed production which has better sugar content and sold at premium price to Sasamusa sugar mill.

The seed of sugarcane of these varieties were in great demand among farmers since it fetched better returns. To supply them he went for seed production of sugarcane of these varieties. COP 2061 and has replaced most of the varieties of sugarcane in his area.

Encouraged by the income and capital generated he went for nursery raising of fruit and forest trees which are in high demand in the district. He grows plants of drumstick, guava, mahogany, mango, papaya, semal and teak for sale. Last year he sold fifty thousand such plants to farmers with a net income of Rs.1.5 lakh. Till now, he has sold about two and half lakh plants.

His success encourages other farmers to cultivate sugarcane variety COP 2061 and raise nursery of fruits.



Sugarcane (COP 2061)



Nursery of various plants

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

3.10 Indicate the specific training need analysis tools/methodology followed by KVKs

3.11. a. Details of equipment available in Soil and Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
	Mridaparikshak	1

3.11.b. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Total				

3.12. Activities of rain water harvesting structure and micro irrigation system

No of training programme	No of demonstrations	No of plant material produced	Visit by the farmers	Visit by the officials

3.13 Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology

3.14. RAWE programme - is KVK involved?

No of student/ARS trained	No of days stayed

3.15. List of VIP visitors (MP/MLA/DM/VC/Zila Sabhadipati/Other Head of Organization/Foreigners)

Date	Name of the person	Purpose of visit
17/05/16	Shri Jay Ram Shahi, Director RSETI	Training Programme
	Shri Priya Ranjan, DDM, NABARD	
20/01/17	Shri R.P. Singh, Farmer Member, GB, ICAR	Farm visit
21/02/17	Dr. R.C. Shrivastava, VC, Dr. R.P.C.A.U., Pusa	SAC meeting
	Dr. K. M. Singh, DEE, Dr. R.P.C.A.U., Pusa	
	Dr. K.S. Das, PS, ATARI, Kolkata	
	Dr. Brajesh Shahi, Nodal Officer, KVK, Dr. R.P.C.A.U., Pusa	
25/03/17	Shri Janak Ram, MP, Gopalganj	Rabi Sangosthi
05/04/17	Dr. S.B. Mishra, Chief Scientist, (PBG), Dr.R.P.C.A.U	Seed Production Monitoring
	Dr. Ravikant, Jr. Scientist (PBG)	
	Dr. A.K. Mishra, Jr. Scientist (PBG)	

## 4.0 IMPACT

### 4.1. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants

### 4.2 Cases of large scale adoption

#### 1. Technology: Ring pit method of sugarcane cultivation

- Flat bed method earlier practiced by farmers had lower germination rate (33 %) and lodging problem
- In collaboration with sugar mills in the district, farmers were trained to adopt ring pit method.
- Germination in ring pit method is 65 % . Spacing and depth reduces lodging problem as well. Yield in ring pit method is 85 t/ha as compared to 44.8 t/ha in flat bed method.
- It was a new technology and large scale adoption among farmers of Sidhwalia, Baikunthpur, Barauli, and kuchaikote (adoption rate: 59 %)



Pit digging with pit digger



Arranging sugarcane nodes in ring



Pre mature sugarcane



Sugarcane ready for harvest

## 2. Technology: Zero Tillage in wheat.

- Wheat sowing (lowland areas of kateya, Hathua, Bhorey and Phulwaria and low lying diara land of Kuchaikote, Barauli and Sidhwalia ) gets delayed.
- ZT saves 10-15 days time, money (Rs. 1000-1200/ha).
- Saves irrigation water (30-40%) in first irrigation.
- Placement of fertilizer and seed at proper depth.
- Reduces *Phalaris minor* infestation in field.



Germination of wheat sown by ZT



Field observation of wheat by ZT

## 3. Technology: Intercropping in sugarcane:

- Sugarcane is a wide space crop. Initial growth in sugarcane is slow.
- Hence suitable for intercropping
- In autumn sugarcane planting intercropping with potato, lentil, lobia, onion, garlic, coriander, rajmash.
- In spring sugarcane planting intercropping with Moong, urd and okra.
- In Gopalganj district, intercropping in sugarcane is largely practised by farmers to the tune of 75 %.
- Intercropping with potato provides maximum returns.

Feedback: Farmers are intercropping sugarcane with potato, onion, garlic, lentil, coriander in October planting and moong, urd and okra in February planting.



Sugarcane+ Rajmash



Sugarcane+wheat



Sugarcane+potato

#### 4. **Technology:** Green manuring, vermicompost and biofertilizer.

- 65% of farmers adopted green manuring (Dhaincha and moong), 60 % using vermicompost and 35 % farmers using Biofertilizer (Azotobacter and PSB)
- Trainings provided by KVKs to line departments, Sugar mill people and farmers to use biofertilizer. Sugar mills are now providing Azotobacter and PSB to farmers cultivating sugarcane.
- Only 19 percent of Phosphorus from fertilizer is available to plants. Use of PSB enhances phosphorus utilization to 40 %.
- Dhaincha, moong for green manuring and Biofertilizer ( Rhizobium, Azotobacter, PSB ) and vermicompost. Green manuring and vermicompost adoption by farmers.



Farmer at his vermi compost pits

#### 5. **Technology:** Seed replacement

- Farmers were using older varieties of rice (Saryu 52) and wheat (PBW 154).
- Farmers have replaced older varieties of rice with new varieties (R. Bhagwati, Swarna sub 1, Sahbhagi, Hybrid rice such as Arize 6444, PHB 71, US 312) and

older varieties of wheat with new varieties ( HD273, HD 2824, HD 2967, PBW 343, PBW 502, PBW 373)

- 32 % seed replacement in rice and 25 % seed replacement in wheat.
- In oilseeds and pulses new varieties of rai (R Suflam, R. Anukool, R.Rai, Pachheti), Pigeonpea (NDA 1, Pusa 9, Sharad), lentil (HUL 57, KLS 218, Pant L 639), Bengal Gram ( Pusa 256), Moong (Pusa Vishal, SML 668)
- Seed replacement in oilseed and pulses has occurred to the tune of 17 %.
- KVK Gopalganj produces seed of crops, vegetables.



Paddy Variety – R. Bhagwati



Paddy Variety- Prabhat



Paddy Variety- R. Suwasini



Paddy Variety- R. Rajshree



Wheat-HD 2824



Wheat-HD 2967

(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread

4.3 Details of impact analysis of KVK activities carried out during the reporting period

4.4 Details of innovations recorded by the KVK

Thematic area	
Name of the Innovation	
Details of Innovator	
Back ground of innovation	
Technology details	
Practical utility of innovation	

4.5 Details of entrepreneurship development

<b>Entrepreneurship development</b>	
Name of the enterprise	
Name & complete address of the entrepreneur	
Intervention of KVK with quantitative data support:	
Time line of the entrepreneurship development	
Technical Components of the Enterprise	
Status of entrepreneur before and after the enterprise	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	
Horizontal spread of enterprise	

4.6 Any other initiative taken by the KVK

## 5.0 LINKAGES

### 5.1 Functional linkage with different organizations

Name of organization	Nature of Linkage
<b>1. District Agriculture Department</b> RKVY, ISOPOM, NFSM, Krishi Yantrikaran Yojana,, Krishi Vaigyanik Aapke Gaon, Micro Irrigation Yojana and Fertility management Scheme, Rabi and Kharif workshops	Providing knowledge up gradation and skill training to Agriculture coordinator (formerly SMS), Kisan Salahkar, Agriculture Inspectors, Farm Managers Farm incharge in Rabi and Kharif workshops at District and Block levels. Visiting Seed Multiplication farms and providing package and practices and diagnostic services for quality seed production.
<b>2. Agriculture Technology management Agency</b>	Joint survey, training, technical support, exposure visits
<b>3. DRDA, Gopalganj</b>	Infrastructure development, technical support
<b>4. District Animal Husbandry</b>	Training, meeting
<b>5. District Fisheries Department</b>	Training, meeting
<b>6. District Horticulture Department</b>	Providing skill training to farmers for Banana cultivation, Vegetable seed production, Nursery management, sapling production and insects, pests and disease in vegetable and horticultural crops.
<b>8. NHM, RAU, Pusa</b>	Financial assistance for training, seed production, nursery development.
<b>9. Directorate of seed &amp; Farm, TCA, Dholi</b>	Seed production, seed sale, source seed for seed villages
<b>10. District Sugarcane Department</b>	Trainings, sugarcane produce and sugarcane seed
<b>11. NABARD</b>	Training, meeting, Kissan Club and Farmer Producer Organization (F.P.O)
<b>12. District Farm, Sipaya</b>	Technical support
<b>13. Lead Bank (central Bank)</b>	Training, meeting and Farmer schemes.
<b>14. IFFCO, Gopalganj</b>	Training, meeting
<b>15. District Rural Livelihoods (jeevika)</b>	Trainings of farm women of jeevika involved in rearing backyard poultry and inspection of multiplication farm.
<b>16. RSETI, Gopalganj</b>	Resource person for training
<b>17. National Seed Certification Agency</b>	For seed input of oilseeds, pulses and fodder
<b>18. ICAR-RCER, Patna</b>	For diagnosis of pathological Samples, Training
<b>19. BAMETI, Patna</b>	KVK has reported from time to time report/information and other queries as and when required by the BAMETI, Bihar.

5.2. List of special programmes undertaken during 2016-17 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies (**information of previous years should not be provided**)

a) Programmes for infrastructure development

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)

(b) Programme for other activities (training, FLD,OFT, Mela, Exhibition etc.)

Total				
Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Sansad Adarsh Gram Yojana	Rabi Sammelan	16 <sup>th</sup> June, 2015	ICAR	80,000.00
Cluster demo on oilseed (Rapeseed& mustard)	CFLD	1 <sup>st</sup> Oct, 2015	NFSM, (ICAR)	1,41,000.00
Cluster demo on pulses (pigeonpea)	CFLD	1 <sup>st</sup> Oct, 2015	NFSM (ICAR)	91,282.00
Cluster demo on pulses (Lentil)	CFLD	1 <sup>st</sup> Oct, 2015	NFSM (ICAR)	1,12,500

## 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

### 6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Name of demo Unit	Year of estt.	Area(Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety/bred	Produce	Qty.	Cost of inputs	Gross income	
1	Vermi Compost	2008	600ft <sup>2</sup>	E.Fetida		100qt			Used in KVK Farm
2	AWS (IMD)	2010	100 ft <sup>2</sup>	Non-Functional					
3	Processing Plant	2010		Non- Functional					
4	Azolla	2016	12ft <sup>2</sup>	Destroyed in flood at KVK					

### 6.2 Performance of instructional farm (Crops)

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	
Paddy	04/07/16 to 14/07/16	-	6.0	R.Suwasini R. Kasturi	Flood destroyed the standing crop				
Sugarcane	07/02/16 to 09/02/16	Dec, 2016 to March 2017	1.6	COP 2061	F/S	1000			
Moong	20/03/16	24/05/16 to 5/06/16	1.0	PDM 139	B/S	3			
Cowpea	19/02/16 to 20/02/16	25/05/16 to 28/05/16	1.0	CP 4	F/S	5			
Wheat	22/11/16 to 26/11/16	10/04/17 to 11/04/17	6.0	HD 2824	F/S	Weighing not done			

6.3 Performance of Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	Name of the Product	Qty (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.					

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.							
2.							
3.							

6.5 Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
Total :			

(For whole of the year)

6.6 Utilization of staff quarters

Whether staff quarters has been completed:

No. of staff quarters:

Date of completion:

Occupancy details:

Months	Q I	Q II	Q III	Q IV	Q V	Q VI

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
KVK Main Account	Uttar Bihar Gramin Bank	Sipaya	5522
Revolving Fund Account	Uttar Bihar Gramin Bank	Sipaya	5579
NHM Account	Uttar Bihar Gramin Bank	Sipaya	7708

7.2 Utilization of funds under FLD on Oilseed (*Rs. In Lakhs*)

Item	Released by ICAR		Expenditure		Unspent balance as on -
	Kharif	Rabi	Kharif	Rabi	

7.3 Utilization of funds under FLD on Pulses (*Rs. In Lakhs*)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2013
	Kharif	Rabi	Kharif	Rabi	

7.4 Utilization of funds under FLD on Maize (*Rs. In Lakh*)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2012
	Kharif	Rabi	Kharif	Rabi	
<b>TOTAL</b>					

7.5 Utilization of KVK funds during the year 2016-17 (Not audited)

S. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	Pay & Allowances	45.00	45.00	37.35
2	Traveling allowances	1.5	1.5	0.7
3	Contingencies			
A	Stationary, telephone, postage and other office charges			
B	POL, repair of vehicle, tractors and equipments	4.20	4.20	3.17
C	Training of farmers			
D	Training materials (posters, charts, demonstration materials including chemical etc. required for conducting the training)			
E	Training of Extension Functionaries			
F	Training of Rural Youth	2.40	2.40	0.91
G	Frontline Demonstration (minimum of 100 demonstration in a year)	1.60	1.60	0.81
H	On- Farm testing (on need based, location specific and newly generated information in the major production systems of the year)	0.80	0.80	0.28
I	Soil & water testing lab	-	-	-

<i>J</i>	Maintenance of building			
	1. Tractor & vehicle repairing	2.0	2.0	1.07
	2. Farm Road Maintenance	2.0	2.0	0.15
	3. Contractual Salary	5.0	5.0	2.62
	TOTAL (A)	65.00	65.00	47.06
<b>B. Non-Recurring Contingencies</b>				
1	Works (Boundary wall cum Fencing)	60.0	60.0	-
2	Vehicle			
3	Equipment (Furniture and Furnishing)			
4	Soil & water testing Lab			
	TOTAL (B)	60.0	60.0	
<b>C. REVOLVING FUND</b>				
	GRAND TOTAL (A+B+C)	125.0	125.0	47.06

7.6. Status of revolving fund (Rs. in lakh) for last three years

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year (Kind + cash)
2014-15	2464949.00	1889610.00	1078336.00	3276223.00
2015-16	3276223.00	1353245.00	1028234.00	3601234.00
2016-17	3601234.00	530705.00	862987.00	3268952.00

7.6.(i) Number of SHGs formed by KVKs (ii) association of KVKs with SHGs formed by other organizations indicating the area of SHG activities.

**Farmers Producer Organization:**

There are two Farmers Producers organization in the district viz. Anjali Farmers Producer organization and Pragati Agro Producer Company Limited. These FPOs have been formed by the NABARD, Gopalganj. The members of these FPOs were trained on Hygienic milk production from 17<sup>th</sup> May, 2016 to 21<sup>st</sup> May, 2016 at KVK, Gopalganj. Meeting with the Banks, line departments and FPOs were held, the offices of the FPO were inaugurated and they are growing up.

7.7 Details of marketing channels created for the SHGs

7.8. Special programme on Food and Nutrition :

7.9. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	Both
Grain setting problem in wheat in Baikunthpur block	1 (25 farmers)	07 <sup>th</sup> April, 2016	Distt. Agriculture Deptt.	-	
District level Kharif workshop	1 (150participants)	19 <sup>th</sup> May, 2016	Distt. Agriculture Deptt	-	
Meeting on Khadya Suraksha Mission	1	30 <sup>th</sup> May, 2016	Line deptt.	-	
Monitoring of breeder seed	1	30 <sup>th</sup> May, 2016	Director, Seed certification and breeder from univ.	-	

FPO meeting	1	3 <sup>rd</sup> June, 2016	NABARD, FPO	-	
Contingent meeting	1	3 <sup>rd</sup> June 2016	Distt. Agriculture Deptt.	-	
Inauguration of FPO (Anjali Farmers producer Company Ltd) office at Kateya	1 (41 farmers)	5 <sup>th</sup> August, 2016	NABARD, FPO	-	
Lectures on Dairy	2 (38 farmers)		RSETI	-	
FPO meeting		20 <sup>th</sup> Sept, 2016	NABARD	-	
Krishi Yantrikaran Mela	2 (225 farmers)	28 <sup>th</sup> -29 <sup>th</sup> Oct., 2016	Distt Agriculture Deptt.		
Agriculture Task Force meeting and GB meeting ATMA	1	25 <sup>th</sup> Oct, 2016	Line Deptt.		
Sensitization programme on joint liability group	1(100 farmers)	28 <sup>th</sup> Dec, 2016	NABARD	-	
Lecture as resource person	2	17 <sup>th</sup> Jan., 2017	RSETI	-	
Training	4 nos	8 <sup>th</sup> , 9 <sup>th</sup> , 18 <sup>th</sup> and 27 <sup>th</sup> Feb., 2017	Distt. Ag. Deptt.	-	
Training	2 nos.	10 <sup>th</sup> & 15 <sup>th</sup> March, 2017	Distt. Ag. Deptt.		
Training	1 nos	25 <sup>th</sup> March, 2017	Seed Certification Agency		

## 8. Initiative taken towards organic farming by the KVK (area brought under organic farming, crops cultivated through organic means and other relevant information)

### 9. Other information

#### 9.1. Prevalent diseases in Livestock/Crops/Fishery

##### 1. Flood and incidence of Fascioliosis:

Flood in the July month in various parts of the district due to release of water in Gandak river from Valmiki barrage occurred. After the flood oedema of submandibular region was noticed among cattle and bullocks from September to December 2016. The faecal collection made and analyzed for the parasite. It was found that the incidence was due to Fascioliosis.

**Treatment:** Treatment with Oxyclozanide/ Rafoxanide/ Fenbendazole was made and improvement noticed. Bullocks, cattle and calf of all ages were affected. Most of the animals treated survived and recovered.

**Outcome:** Farmers like Vishwanath Ram, Manager Dubey, Basant Kumar Pandey, Munna Yadav, Sharma Mahto, Khaitunnisa, Umesh Maho, Chandradev Yadav, Imam Hasan Ansari, Shivji Yadav sought advice, followed it and their animals recovered.

##### 2. Mastitis:

Mastitis in some instances gangrenous mastitis incidence was noticed

**Diagnosis:** California Mastitis Test (CMT) test was performed for diagnosis of affected quarters.

**Treatment:** Mastitis cases were treated with Mammicef intramammary infusion, antibiotics parenterally, mineral and vitamin supplements and most of the animals recovered.

**Outcome:** Cattle of farmers like Pahwari Pandey, Vakil Kumar, Rajni kumari, Artif Kaushar, Zakir Husain Ansari, Jamuni Devi, Dinesh Prasad, Satyendra Prasad and numerous others were affected with mastitis. After treatment their animals recovered.

### 3. Ketosis:

Ketosis is a metabolic disorder.

**Diagnosis:** Rothera test of urine sample used in diagnosis of the disease.

**Outcome:** Cattle of farmers like Arjun Kumar Gupta, Dinesh Patel, Ghanshyam Kumar recovered after administration of dextrose parenterally.

### 9.2. Nehru Yuva Kendra (NYK) Training

Title of the training programme	Period		No. of the participant		Amount of Fund Received (Rs)
	From	To	M	F	

### 9.3. PPV & FR Sensitization training Programme

Date of organizing the programme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration

#### 9.4.a SMS PORTAL

Date of start of functioning of SMS portal

No. of messages	No. of calls	No. of farmers covered	Types of messages (No.)					
			Crop	Livestock	Weather	Marketing	Awareness	Other

#### 9.4.b Information in uploading KVK Portal by KVKs during 2016-17

Sr. No.	Name of item/ events/ component	Uploading status (Yes/No)	No. uploaded	Remarks, if any
1	KVK Profile			
2	Employee details	Yes		
3	Post	Yes		
4	Finance	No		
5	Soil Health Card	Yes		
6	Appliance	Yes		

7	Crops	Yes	4	
8	Resources	Yes	1	
9	Fish	No		
10	Past events	Yes		
11	Future/ upcoming events	No		
12	Facilities available at KVKs	Yes		
13	Package and practices			
14	Crop	Yes	3	
15	Livestock	Yes	1	
16	Fishery	No		
17	Horticulture	No		
18	CFLD on Pulses			
19	2016-17	Yes	1	Lentil
20	2015-16	Yes	1	Field Pea
21	CFLD Oilseeds			
22	2016-17	No		
23	2015-16	Yes	1	Rapeseed and Mustard

#### 9.5 Observation of Swacha Bharat Programme

Date of Observation	Activities undertaken
Swacchata Pakhwara (16 <sup>th</sup> -31 <sup>st</sup> Oct, 2016)	Trainings, awareness programme, demonstration

#### 9.6 Observation of National Science day

Date of Observation	Activities undertaken

#### 9.7. Programme with Seema Suraksha Bal (BSF)

Title of Programme	Date	No. of participants

#### 9.8 Agriculture Knowledge in rural school:

Name and address of school	Date of visit to school	Areas covered	Teaching aids used

9.9. Details of Kharif and Rabi Sammelan (Information should be provided in two separate tables – one for Kharif and another for Rabi Sammelan)

Name of the state	Name of district /KVK	Date on which conducted	Number of participants		Name of public representative	Details of Technology Demonstrated and other programmes organized
			Farmers	Others		
Bihar	Goplaganj	25 <sup>th</sup> -26 <sup>th</sup> March, 2017	250		Hon. Janak Ram, MP Goplaganj	Crop Cafeteria, Rabi crops, Different varieties of rabi crops, wheat, lentil, Bengal Gram

On 25<sup>th</sup> March, 2017, the honourable M.P. made a visit to the KVK. After interacting with the farmers, he visited the crop cafeteria and KVK farm. The honourable MP was appraised of the seed production activity of the KVK as well as the crop cafeteria with different varieties of rabi crops for farmers



Hon.MP interacting with farmers



Hon.MP visiting Bengal Gram plot

9.10. Details of Pradhan Mantri Fasal Bima Yojana programme organized

Name of the state	Name of district/KVK	Date on which conducted	Number of participants		Name of public representative	Details of awareness created and other programmes organized
			Farmers	Others		
Bihar	Gopalganj KVK, Sipaya, Gopalganj	5 <sup>th</sup> April, 2016	1000			Awareness on Pradhan Mantri Fasal Bima Yojana, stalls of private companies

To create awareness on Pradhan Mantri Fasal Bima Yojana and other schemes of the central and state governments the krishak mela was organized on the 5<sup>th</sup> April, 2016. The District Agriculture officer, lead Bank manager, local bank officials, Kisan Salahkars, Agriculture Co-ordinators of the District Agriculture Department, Farmers and Press representatives and other officials of the line department were present.

A special invitee from the Agriculture Insurance Company (AIC) official Mr. Nirmalya Pramanick was present to address the questions raised by the farmers and extension workers of line department

In the session registration was made thereafter lectures on agriculture and livestock and questions posed by farmers were answered. DAO, Bank and AIC official addressed the questions posed.

Public Representative Participation was not there because of the election.



Questions posed by farmer



Private stalls

#### 9.11. Contingent crop planning

Name of the state	Name of district/ KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK

9.12. Report on Citizens' Client Charter (attending the requests seeking guidance on agricultural technology and technology products)

Sl. No.	Services/ Transaction	Process	Service Standard	No. of such services attended by KVKs and ATICs during the year	No. of such services pending with KVK/ATIC beyond 30 days
1.	Guidance on Agricultural technology and technology products	Personal contact by the Service Sectors with the responsible person of KVK/ATIC		1204	Nil

9.13. Community Radio Station

Date of establishment:

Amount of fund received year wise :

Source of fund:

Achievements:

Sr. no	Community Radio Stations (CRS)	No of programmes in the year	Total broadcast hrs in a month	Please specify details of the broadcasts
A.	<p>Agricultural broadcasts</p> <ul style="list-style-type: none"> <li>• Talks/interviews/discussions with experts, PG students/ and farmers on Agricultural technologies</li> <li>• Agro-climatic conditions, weather and marketing advisory</li> <li>• Phone-in programme of interface with experts</li> <li>• Phone-in programme with interface of progressive/innovative farmers</li> <li>• Success stories of progressive farmers</li> <li>• Success stories in FLD/OFT/ Trainings /Extension activities</li> <li>• Women in agriculture programme</li> <li>• Discussions on current issues in</li> </ul>			

Sr. no	Community Radio Stations (CRS)	No of programmes in the year	Total broadcast hrs in a month	Please specify details of the broadcasts
B.	agriculture and allied sectors. <ul style="list-style-type: none"> <li>• KVK happenings</li> <li>• Agricultural University professors.</li> <li>• Any other(please specify)</li> </ul> Community development broadcasts  Please specify the programmes like rural development, educational, health, environment, public service broadcasts, sports etc.			

9.14 No. of Progressive/Innovative/Lead farmer identified (category wise)

9.15 HRD programmes organized by the KVK

Training programme/ Seminar/ Symposia/ Workshop etc attended	Duration	Name of the participants	Designation	Organizer of the training Programme

9.16. Revenue generation:

SL.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.			
2.			
3.			

9.17. Resource Generation:

SL.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created

9. 18. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
	I.M.D.	Not functional

10. Details of TSP Project

Name of the village adopted under TSP	Block	Population of the village			ST Population of the village			Percentage of ST population to total population
		M	F	T	M	F	T	

Physical achievements under TSP during 2016-17

Programmes	Physical achievements 2016-17
Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)	
On-farm trials (Number)	
Frontline demonstrations (Number)	
Farmers training (in lakh)	
Extension personnel training (in lakh)	
Participants in extension activities (in lakh)	
Seed production (in tonnes)	
Planting material production (in lakh)	
Livestock strains and fingerlings production (in lakh)	
Soil, water, plant, manures samples testing (in lakh)	
Provision of mobile agro – advisory to farmers (in lakh)	
Others (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	

Fund received under TSP in 2016-17:----- lakh

11. PROGRESS REPORT OF NICRA KVK (Technology Demonstration component) 2016-

17

(Applicable for KVKs identified under NICRA)

Natural Resource Management

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted	Remarks

### Crop Management

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted	Remarks

### Livestock and fisheries

Name of intervention undertaken	Number of animal covered	Number of units	Area (ha)	No of farmers covered / benefitted	Remarks

### Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted	Remarks

### Capacity building

Thematic area	No. of Courses	No. of beneficiaries		
		Males	Females	Total

### Extension activities

Thematic area	No. of activities	No. of beneficiaries		
		Males	Females	Total

Detailed report should be provided in the circulated Performa

### 12. Information on NFDB Funded Capacity building programme during 2016-17

Sl. No.	Name of capacity building training programme	Duration (days)	Date of programme	Fund (Rs.) sanctioned by NFDB, Hyderabad	No. of Farmers trained	Remarks, if any
1						
2						
Total						

13. National Initiative on Fodder Technology Demonstration (NIFTD)  
(Applicable for KVKs identified under NIFTD)

Name of the fodder crop	Date of sowing	Area (ha)	No. of farmers involved	Demonstration Yield (q/ha)			Check Yield			% increase
				H	L	A	H	L	A	

Economic of Demonstration

Name of the fodder crop	Demonstration Cost/Rs/ha			Check Cost (Rs/ha)		
	Gross cost	Gross return	BC ratio	Gross cost	Gross return	BC ratio

14. Awards/Recognition received by the KVK

Sl. No.	Name of the Award	Year	Conferring Authority	Amount	Purpose

Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose

15. Any significant achievement of the KVK with facts and figures as well as quality photograph

16. List of 5000 farmers with mobile number and Aadhar card number (only soft copy to be enclosed)

17. Number of commodity based organizations/ farmers' cooperative society formed during last one year  
(Details of the group/society may be indicated)

18. Any other programme organized by KVK not covered above

## Annexure -I

### Action Taken Report

Following recommendation and action taken is as follows:

Recommendation	Action Taken
1. Intercropping in sugarcane to be promoted.	Already OFT has been conducted and it is being popularized at farmers' field.
2. Mechanization in sugarcane to be promoted through use of sugarcane planter	A 55 HP tractor needed for the purpose.
3. Azolla unit destroyed in flood has to be constructed, one permanent and one temporary structure	Will be done.
4. Sugarcane being the main cash crop of the district, the farm area under seed production of sugarcane to be increased.	Crop already occupying field, in future, if possibility then the area will be increased
5. FLD on single bud chip sowing in sugarcane to be conducted.	First awareness will be created then taken to FLD
6. FLD on ultrasonic device to drive away Blue Bull (Nilgai)	Included in action plan.
7. Low cost feed formulation for livestock and poultry using available feed ingredients	Farmers advised on low cost feed
8. Trainings on mushroom and beekeeping	Included in action plan.
9. An OFT Planned on irrigation in sugarcane using the following treatments; F.P: Flood irrigation T.O.1: Furrow irrigation T.O.2: Alternate furrow irrigation.	Will be conducted.

Dr. Ramakrishna Roy  
Programme Co-ordinator  
KVK, Sipaya, Gopalganj

## **Annexure-II**

### **Proceeding of the Seventh Scientific Advisory Committee (SAC) meeting of KVK, Sipaya, Gopalganj**

The seventh scientific Advisory Committee (SAC) meeting of KVK, Sipaya, Gopalganj was held on 21<sup>st</sup> February, 2017. Honourable Vice-chancellor, Dr. R.C. Shrivastava, Dr. Rajendra Prasad Central Agricultural University (Dr. R.P.C.A.U) chaired the meeting. Dr. K.M. Singh, Director Extension Education, Dr. Brajesh Shahi, Nodal officer KVKs, Dr. R.P.C.A.U., Dr. K.S. Das, Principal Scientist from Agricultural Technology Application Research Institute, Zone-II, Kolkata, officials from line departments viz. Agriculture, Animal Husbandry, ATMA representative, banks, sugarcane mills, Bihar rural livelihood Project (Jeevika) and progressive farmers of the district were present in the meeting.

After due deliberations the recommendations that emerged from the meeting are as follows:

1. Intercropping in sugarcane to be promoted.
2. Mechanization in sugarcane to be promoted through use of sugarcane planter
3. Azolla unit destroyed in flood has to be constructed, one permanent and one temporary structure.
4. Sugarcane being the main cash crop of the district, the farm area under seed production of sugarcane to be increased.
5. FLD on single bud chip sowing in sugarcane to be conducted.
6. FLD on ultrasonic device to drive away Blue Bull (Nilgai).
7. Low cost feed formulation for livestock and poultry using available feed ingredients.
8. Trainings on mushroom and beekeeping.
9. An OFT planned on irrigation in sugarcane using the following treatments;  
F.P: Flood irrigation  
T.O.1: Furrow irrigation  
T.O.2: Alternate furrow irrigation.

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