

## **PROFORMA FOR ANNUAL REPORT 2021( 1<sup>st</sup> January-31<sup>st</sup> December 2021)**

### **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:head.kvk.sipaya@rpcau.ac.in">head.kvk.sipaya@rpcau.ac.in</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	vc@rpcau.ac.in

#### 1.3. Name of Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Ramakrishna Roy		9135025137	head.kvk.sipaya@rpcau.ac.in

#### 1.4. Year of sanction of KVK:2006

1.5. Staff Position (as on 31<sup>st</sup> Dec, 2021)

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	Senior Scientist& Head	Dr. Ramakrishna Roy	Sr. Scientist & Head	Animal Science	79800-199300	16.06.2015	Permanent	Others
2	Subject Matter Specialist	Shri Sanjay Kumar	SMS	Entomology	57700-144000	29.01.2018	Permanent	Others
3	Subject Matter Specialist	Vacant		Agronomy				
4	Subject Matter Specialist	Er. Naveen Kumar	SMS	Ag. Engg.	56100-177500	29.09.2018	Permanent	OBC
5	Subject Matter Specialist	Dr. Amit Visen	SMS	Horticulture	56100-177500	18.12.2018	permanent	others
6	Subject Matter Specialist	Dr. Anita Gautam	SMS	Home Sc.	56100-177500	18.12.2018	Permanent	SC
7	Subject Matter Specialist	Vacant						
8	Programme Assistant							
9	Computer Programmer							
10	Farm Manager	Shri Ravikant Kumar	Farm Manager	Agro.	35400-112400	08.12.2017	Permanent	OBC
11	Accountant / Superintendent	Mr. Pankaj Rai	Assistant		35400-112400	23.11.2017	Permanent	OBC
12	Stenographer	Mr. Chintu Kumar	Stenographer		25500-81100	27.02.2018	Permanent	SC
13.	Driver	Shri Abhishek Kumar	Jeep Driver		21700-69100	01.03.2021	Permanent	SC
14.	Driver							
15.	Supporting staff	Shri Mukesh Kumar	Lab Attendant	-	18000-56900	22.08.2015	Permanent	Others
16.	Supporting staff	Shri Nilesh Kumar	SSS	-	18000-56900	01.03.2021	Permanent	OBC

## 1.6. Total land with KVK (in ha)

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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	
2.	Farmers Hostel					✓		Use	
3.	Staff Quarters (4)					✓			
4.	Piggery unit								
5.	Fencing					✓		Use	
6.	Rain Water harvesting structure								
7.	Threshing floor					✓		Use	
8.	Farm godown					✓		Use	
9.	Dairy unit					✓		Use	
10.	Poultry unit								
11.	Goatary unit								
12.	Mushroom Lab								
13.	Mushroom production unit								
14.	Shade house					✓		Use	
15.	Soil test Lab (Mridaprikshak)					✓		Use	
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	280690 (31.12.2021)	Required to be replaced

## C) Equipment &amp; 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
M.B plough	2006	16058	Not working	
Hydraulic trailr	2006	62500	Good	
Leveller	2006	76052	Good	
Power weeder	2010	75000	Not working	Department of S/C
Sugar cane cutter planter	2011	72450	Good	Department of S/C
Square baler	2012	840000	Good	GoB
Zero Till Drill			Good	
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	Not working	DSF, Dholi
Sprayer hi Tech	2007	1250	Good	Department of S/C
Sprinkler System	2007	30,000	Not working	Department of S/C
Ridger	2007	8500	Not working	Department of S/C
Dal maker	2007	6200	Not working	Department of S/C
Hand operated fan (winnowe)	2007	2850	Not working	Department of S/C
Disc Harrow	2007	43000	Not working	
9 tyne cultivator (Rigid)	2007	22000	Not working	
Rocker Sprayer (Aspee)	2008	4100	Good	Department of S/C
HDPE pipe full set PCN one	2008	30000	Not working	Department of S/C
Cultivator 9 tyne	2008	14500	Good	Department of S/C
Aspee Balo power sprayer	2009	6000	Not working	Department of S/C
Knapsack sprayer (Aspee)	2009	6000	Good	Department of S/C
Avery balance	2009	39398	Not working	Dept 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
Duster	2010	7900	Not working	
Bag closer machine	2010	5200	Not working	DSF, Dholi
Bag stitching machine	2010	5400	Not working	DSF Dholi
Mobile seed processing plant	2010	970000	Not working	
Raised bed seeder cum sugarcane cutter planter	2011	72622	Not working	
Markant-55 square baler	2012	840000	Not working	
Aspee Rocker sprayer	2014	6250	Good	
Cane cultivator	2015	13500	Good	
Agricultural tractor 30 DI	2019	482076	Good	ICAR
John Deree Tractor	2019	612036.84	Good	ICAR
Tractor operated Laser	2020	291200	Good	ICAR
Land leveler cultivator	2020	27776	Good	ICAR
Zero till seed cum fertilizer	2020	43120	Good	ICAR
Mini Dal mill	2020	94500	Good	ICAR
Happy Seeder	2020	158747	Good	ICAR
Multicrop Thresher	2020	128800	Good	ICAR
Reversible M.B plough	2020	114240	Good	ICAR
Multicrop/Inclined plate	2020	99799	Good	ICAR
Self propelled reaper cum binder	2020	520000	Good	ICAR
Mainfed heavy duty Sisc plough	2021	72492	Good	ICAR
Tractor operated boom sprayer	2021	160499	Good	ICAR
Tractor towed Aro blast electrostatic	2021	761600	Good	ICAR
Power tiller	2021	212800	Good	ICAR
Tractor J.D 5305	2021	671580.31	Good	CRAP
Laser Land levellar	2021	248000	Good	CRAP
Hydraulic tractor trolley	2021	143400	Good	ICAR
Rotavator	2021	96240	Good	ICAR
Multicrop Planter	2021	77549	Good	CRAP
Tractor operated reaper cum binder	2021	342000	Good	ICAR
Happy seeder	2021	140000	Good	CRAP
Zero till seed cum fertilizer	2021	72000	Good	CRAP

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.	24.03.2021	24	Annexure-I	Annexure-II	

\* *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 (2020)

Sl. no.	Item	Information				
1	Major Farming system/enterprise	i. Crop based farming System a. Rice-wheat b. Rice-wheat-green gram c. Sugarcane-wheat ii. Dairy iii. Poultry iv. Goat				
2	Agro-climatic Zone	Zone-I				
3	Agro ecological situation (AES)	AES	Characteristics			
		Upland	Sandy loam soil, flat topography, no water logging, calcareous soil having free calcium carbonate 30-40%, easier in tillage operation with medium water table.			
		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.			
		Low land	Deep soil, clay loam texture, flat in topography, tillage operation is difficult, high water table.			
	Diara land	Soil is sandy in texture. Highly porous with poor water holding capacity.				
4	Soil type	Soil Type	Characteristics			
		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			
		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			
		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.			
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds,	S.N.	Crop	Area (ha)	Production (q)	Productivity (q/ha)
		<u>1.Cereals</u>	<u>Rice</u>	88000	1456000	17.49
			<u>Wheat</u>	97000	1944000	26.13

	vegetables, fruits and others	Maize	10000	311600	31.07		
		2. Pulses	Lentil	1840	16560	9.00	
			Pigeonpea	6956	35615	5.12	
			Pea	2375	18050	7.60	
			3. Oilseeds	Mustard	3842	35731	9.30
		Linseed		1260	7560	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	
			Tomato	1571	240834	153.30	
		6.Spices	Garlic	23	1450	63.00	
Coriander	13		110	8.30			
6	Mean yearly temperature, rainfall, humidity of the district	<u>Month</u>	<u>Temperature (<sup>0</sup> C)</u>		<u>Average Rainfall</u>	<u>Relative Humidity</u>	
			<u>Min Temp</u>	<u>Max Temp</u>	<u>(mm)</u>	<u>Max</u>	<u>Min</u>
		January, 2021	6.23	23.20	7.7	77.50	57.91
		February, 2021	11.39	26.32	21.8	67.26	46.21
		March, 2021	16.34	32.50	43.11	51.41	30.82
		April, 2021	22.18	37.49	3.5	45.50	24.71
		May, 2021	26.53	41.02	222.2	56.53	33.79
		June, 2021	27.61	38.16	348.3	70.76	54.74
		July, 2021	26.14	32.99	22.0	82.48	73.64
		August, 2021	26.10	32.45	171.7	83.45	76.52
		September, 2021	25.32	32.23	342.3	81.85	75.39
		October, 2021	21.52	31.84	3.4	74.82	67.91
		November, 2021	14.57	28.73	1.8	70.76	60.66
December, 2021	9.8	24.62	0.0	75.30	59.69		
7	Production of major livestock products like milk, egg, meat etc.	<u>Category</u>		<u>Population (in '000)</u>	<u>Productivity</u>		
		Cattle					
		Crossbred		84.0	2000 L/lactation. 10-12 L/day		
		indigenous		123.5	1000 L/lactation, 4-5 L/day		
		Non descriptive buffaloes (Local low yielding)		72.6			
		Descriptive buffaloes		42.0			
		Sheep					
indigenous		1.3					

	Goats	216.2	10 kg meat/Goat
	Pigs		
	indigenous	7.5	
	Poultry		
	Commercial	76.7	
		Layer	280 eggs/bird
		Broiler	1.5-2 kg live wt. /bird
	Ducks	0.56	
	Fisheries		
	Farmer owned ponds	30 nos.	2.0 t/ha
	Reservoirs	229	
	Village tanks	209	
	Water spread area (ha)	997.8	
	Fish Production (in '000 tons)	2113.4	
	Yield (t/ha)	3.2	

## b. Details of operational area / villages (2021)

Sl.	Name of	Name of the	Major crops	Major problems identified (crop-wise)	Identified Thrust Areas
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No.	the block	villages	& enterprises		
1.	Kuchaikote	Khemamtihiniya	Paddy, wheat, sugarcane, vegetables, Pulses, Oilseed, Dairy	Cereals- traditional farming, Lack of knowledge about recommended practices, losses due to insect-pest, imbalance use of fertilizer Livestock- diseases, parasites, imbalanced feeding	Crop diversification, High value agriculture, Inclusion of pulses in cropping system, skill oriented trainings for agri-based enterprises.
2.	Kuchaikote	Amwa Bijaypur	Paddy, wheat, mustard, Horticulture and vegetables	Cereals- traditional farming, Lack of knowledge about recommended practices, losses due to insect-pest, imbalance use of fertilizer Livestock- diseases, parasites, imbalanced feeding	Crop diversification, High value agriculture, Inclusion of pulses in cropping system, skill oriented trainings for agri-based enterprises. Disease diagnostic services, vaccines Treatments
3.	Kuchaikote	Narayanpur	Paddy, wheat, mustard, potato, Oilseeds, Pulses	Crop and livestock diseases and pests, monsoon dependent, imbalanced use of fertilizer, imbalanced feeding of livestock	Skill oriented trainings, Farm mechanization, addressing crops and livestock disease and pests
4.	Kuchaikote	Sipaya	Paddy, wheat, mustard, maize, vegetable, Sugarcane	Cereals-traditional farming, imbalance use of fertilizer, diseases Livestock-diseases, parasites, imbalance feeding	Crop diversification, High value agriculture, ZT, happy seeder, skill oriented trainings for agri-based enterprises.
5.	Kuchaikote	Bishunpura	Vegetable, Paddy, Wheat, Maize, Potato, Oilseeds, Pulses (Pigeon Pea)	Cereals-traditional farming, imbalance of fertilizer, diseases Livestock-diseases, parasites, imbalance feeding	IPM, IDM, INM, vaccination, deworming, balance feeding of livestock
6.	Kuchaikote	Tiwari Matihiniya	Paddy, Wheat, Oilseed, Potato	Cereals-traditional farming, imbalance of fertilizer, diseases Livestock-diseases, parasites, imbalance feeding	IPM, IDM, INM, vaccination, deworming, balance feeding of livestock
7.	Unchkagaon	Dahibhatta	Paddy, wheat, maize, sugarcane, mustard	Crop and livestock diseases and pests, monsoon dependent, imbalanced use of fertilizer, imbalanced feeding of livestock	Skill oriented trainings on mushroom, livestock, horticultural crops and cereals, addressing crops and livestock disease and pests,
8.	Gopalganj	Chaturbagha	Paddy, wheat, maize, sugarcane, mustard	Crop and livestock diseases and pests, monsoon dependent, imbalanced use of fertilizer, imbalanced feeding of livestock	Skill oriented trainings in High Value Agriculture especially horticulture, mushroom, farm mechanization, addressing crops and livestock disease and pests.
9.	Gopalganj	Baraipatti	Paddy, wheat, maize, sugarcane, mustard, potato	Crop and livestock diseases and pests, monsoon dependent, imbalanced use of fertilizer, imbalanced feeding of livestock	Skill oriented trainings in Rural crafts, embroidery, processing and value addition, horticulture, mushroom, farm mechanization, addressing crops and livestock disease and pests

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2021) for its development and action plan

Name of village	Block	Action taken for development
Khemmatihiniya (adopted by Sr. Scientist and Head)	Kuchaikote	Trainings on Dairy farming, Disease Diagnostic and Treatments, Addressing production problems in crops and livestock, CFLD, FLD
Dahibhatta (adopted by SMS (Plant Protection))	Unchkagaon	PF Trainings, OFT
Chaturbagha (adopted by SMS, Horticulture)	Gopalganj	Datacollection, FLD, OFT, Training
Baraipatti (adopted by SMS Home Sc.)	Gopalganj	Data collection, Trainings
Narayanpur (adopted by SMS, Ag. Engg.)	Gopalganj	Trainings, CFLD (Oilseed) FLDs
Bishunpura, Tiwari Matihiniya, Sipaya, Baraipatti, Khem Matihiniya (PC, SMS, (Entomology), SMS, (Ag. Engg.))	Kuchaikote, Gopalganj	Climate Resilient Agriculture Programme (CRAP)

### 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 the year

OFT												FLD											
No. of technologies tested:												No. of technologies demonstrated:											
Number of OFTs		Number of farmers										Number of FLDs		Number of farmers									
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement								
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
9	8	92	0	30	0	0	50	22	50	52	102	10	8	272	8	58	0	0	109	31	117	89	206

Training												Extension activities											
Number of Courses		Number of Participants										Number of activities		Number of participants									
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement								
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
152	102	3800	184	298	0	0	2066	503	2250	801	3051	104	120	3546	945	88	0	0	8887	1429	9832	1517	11349

Impact of capacity building												Impact of Extension activities											
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)										Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									
Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total				
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T		

Seed production (q)

Planting material (in Lakh)

Target	Achievement	Target	Achievement
386.00	190.3	0.86	0.06

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
0	0	0.005	0.0001

\* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper	2		2	6.40			
Seminar/conference/ symposia papers	2						
Books							
Bulletins							
News letter							
Popular Articles							
Book Chapter							
Extension Pamphlets/ literature							
Technical reports							
Electronic Publication (CD/DVD etc)							
<b>TOTAL</b>	4						

### 3.1.1 Achievements on technologies assessed and refined (2021)

## OFT 1 Horticulture

1	Title	Assessment of integrated nutrient management on yield of banana
2	Problem diagnosed	Excessive use of inorganic fertilizers in banana have deleterious effect on yield and quality
3	Details of technologies selected for assessment / refinement	Farmers Practice (FP): 100 % RDF (200:100:300 g/plant) Technology option-I (TO-I): 100 % RDF + vermicompost 5 kg +PSB 20 g+ Azospirillum 20 g/plant Technology option-II (TO-II): 100 % RDF +FYM 20 kg +PSB 20 g +Azospirillum 20 g/plant
4	Source of Technology (ICAR/AICRP/SAU/other)	UAS, Bagalkot, Karnataka
5	Production system and thematic area	Banana based cropping system
6	Performance of the technology with performance indicators	Yield (kg/plant), Yield (t/ha), B:C ratio, Length of bunch (cm), No. of hands/bunch, Weight of bunch (kg), No. of fingers/hand, Length of finger (cm), Girth of finger (cm), weight of finger
7	Final recommendation for micro level situation	100 % RDF +FYM 20 kg +PSB 20 g +Azospirillum 20 g/plant performed better than all other options but the cost of vermicompost decreased the B:C ratio.
8	Constraints identified	
9	Process of Farmer Participation	Field visits

*Thematic area: Fruit Production*

Problem definition: Excessive use of inorganic fertilizers in banana have deleterious effect on yield and quality

Technology assessed: T.O.-II viz 100 % RDF +FYM 20 kg +PSB 20 g +Azospirillum 20 g/plant performed better than all other options but the cost of vermicompost decreased the B:C ratio.

Result:

Technology Option	No. of Trial	Length of bunch	No. of hands/bunch	No. of fingers/bunch	Weight of finger (g)	Length of finger (cm)	Girth of the finger	Weight of bunch (kg)	Number of fingers per hand	Yield (t/ha)	B:C ratio
Farmers Practice: 100 % RDF (200:100:300 g/plant)	8/ treatment	85.841 <sup>a</sup>	8.155 <sup>a</sup>	131.359 <sup>a</sup>	137.501 <sup>a</sup>	17.724 <sup>a</sup>	11.196 <sup>a</sup>	18.983 <sup>a</sup>	16.375 <sup>a</sup>	53.658 <sup>a</sup>	4.24
TO-I: 100 % RDF + vermicompost 5 kg +PSB 20 g+ Azospirillum 20 g/plant		89.466 <sup>b</sup>	9.156 <sup>b</sup>	140.526 <sup>b</sup>	150.405 <sup>b</sup>	19.414 <sup>b</sup>	12.680 <sup>b</sup>	19.776 <sup>b</sup>	18.375 <sup>b</sup>	60.238 <sup>b</sup>	3.51
TO-II: 100 % RDF +FYM 20 kg +PSB 20 g +Azospirillum 20 g/plant		92.099 <sup>b</sup>	10.256 <sup>c</sup>	144.069 <sup>c</sup>	160.673 <sup>c</sup>	20.715 <sup>c</sup>	13.519 <sup>c</sup>	21.305 <sup>c</sup>	20.000 <sup>b</sup>	63.249 <sup>c</sup>	2.96
CD (0.05)		2.701	1.034	3.174	3.268	0.977	0.831	0.871	0.999	1.684	
SEM		0.882	0.337	1.036	1.067	0.319	0.271	0.284	0.326	0.550	

1	Title	Control of fruit cracking in litchi by bagging of fruit branches (non-oven polypropylene bags)
2	Problem diagnosed	Fruit cracking is a major problem in litchi
3	Technological option	Farmers Practice (FP): No Preventive measures Technology option-I (TO-I): Covering fruit bunches by pink colour non woven polypropylene bags clove stage Technology option-II (TO-II): Covering fruit bunches by white colour non woven polypropylene bags clove stage
4	Source of Technology	NRC Litchi, Bihar
5	Production system and thematic area	Fruit production system & Pre-harvest technology.
6	Performance of the technology with performance indicators	Fruit set (%), Fruit retention (%), Fruit Cracking (%), Fruit weight (g), Sun burn (%), Borer infestation (%), B:C ratio
7.	Final recommendation for microlevel situation	Significant difference in fruit weight, sun burn, borer infestation, fruit cracking, fruit yield was observed among treatments viz. Farmer Practice and technical options i.e. covering fruit bunches with non woven polypropylene bags at clove stage irrespective of the colour of the non woven polypropylene bags
8	Constraints identified	
9	Process of Farmer Participation	Field visits

*Thematic area: Fruit Production & Pre-harvest technology.*

Problem definition: Fruit cracking is a major problem in litchi

Technology assessed: Covering fruit bunches with non woven polypropylene bags (pink or white) at clove stage in litchi

Result:

Technology options	No. of trials	Fruit weight (g)	Sun burn (%)	Borer infestation (%)	Fruit cracking (%)	Fruit yield (kg/tree)	Cost of cultivation (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C ratio
<b>FP</b>	8/treatment	19.44 <sup>a</sup>	22.50 <sup>b</sup>	23.82 <sup>b</sup>	14.63 <sup>b</sup>	41.89 <sup>a</sup>	42,000	146,615	104,615	3.49
<b>TO<sub>1</sub></b>		23.25 <sup>b</sup>	6.38 <sup>a</sup>	0 <sup>a</sup>	4.35 <sup>a</sup>	60.03 <sup>b</sup>	52,000	210,105	158,105	4.04
<b>TO<sub>2</sub></b>		22.68 <sup>b</sup>	6.50 <sup>a</sup>	0 <sup>a</sup>	5.09 <sup>a</sup>	59.14 <sup>b</sup>	52,000	206,990	154,990	3.98
CD at 5%		1.110	1.531	1.925	1.123	2.530				
SEm ±		0.371	0.511	0.643	0.530	0.845				

Recommendation: Significant difference in fruit weight, sun burn, borer infestation, fruit cracking, fruit yield was observed among treatments viz. Farmer Practice and technical options i.e. covering fruit bunches with non woven polypropylene bags at clove stage irrespective of the colour of the non woven polypropylene bags

1	Title	Foliar application of B to control fruit cracking in litchi
2	Problem diagnosed	Fruit cracking is a major problem in litchi
3	Technological option	Farmers Practice (FP): No sprayng Technology option-I (TO-I): 02 spray of Boron (0.1%) at 15 and 30 days after fruit set Technology option-II (TO-II): 03 spraying of Boron (0.1%) at 15, 30 and 45 days after fruit set
4	Source of Technology	NRC Litchi, Bihar
5	Production system and thematic area	Litchi based cropping system
6	Performance of the technology with performance indicators	Reduction in fruit drop and fruit cracking, yield (t/ha) and B:C ratio
7.	Final recommendation for microlevel situation	spraying of Boron (0.1%) at 15, 30 and 45 days after fruit set significantly reduced fruit cracking and increased fruit weight and yield
8	Constraints identified	
9	Process of Farmer Participation	Field visits

*Thematic area: Fruit Production*

Problem definition: Fruit cracking is a major problem in litchi

Technology assessed:spray of Boron (0.1%) at 15, 30 and another at 15,30 and 45 days after fruit set.

Result

Table -1

Technology options	No. of trials	Fruit weight (g)	Fruit cracking (%)	Fruit yield (kg/tree)	Cost of cultivation (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C ratio
<b>FP</b>	8/treatment	19.89 <sup>a</sup>	13.62 <sup>c</sup>	46.12 <sup>a</sup>	43,000	161,420	118,420	3.75
<b>TO<sub>1</sub></b>		22.22 <sup>b</sup>	8.63 <sup>b</sup>	56.86 <sup>b</sup>	50,000	199,010	149,010	3.98
<b>TO<sub>2</sub></b>		21.70 <sup>b</sup>	6.50 <sup>a</sup>	58.35 <sup>b</sup>	53,500	204,225	150,725	3.82
CD at 5%		1.747	1.233	3.502				
SEm ±		0.583	0.412	1.170				

*Recommendation:*spraying of Boron (0.1%) at 15, 30 and 45 days after fruit set significantly reduced fruit cracking and increased fruit weight and yield

1.	Title of On farm Trial	Assessment of improved weeding implements for weeding in gram
2.	Problem diagnosed	Low efficiency and high drudgery of farm labour during conventional weeding in gram.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice (FP): Khurpi Technology option-I (TO-I): Three tyne Grubber. Technology option-II (TO-II): Three tyne wheel hand hoe
4.	Source of Technology	Dr. RPCAU, Pusa, CIAE-Bhopal
5.	Production system and thematic area	Rainfed, drudgery reduction tools
6.	Performance of the Technology with performance indicators	Field capacity (ha/h), Heart rate (beats/min), weeding efficiency (%) and B:C ratio.
7.	Final recommendation for microlevel situation	A twin wheel hoe or three tyne is preferable to the khurpi
8.	Constraints identified and feedback for research	Farm women feel that mechanization (Weeding) will reduce their mandays
9.	Process of farmers participation and their reaction	Trainings, field visits, field workouts, demos.

### *Thematic area: Drudgery Reduction*

Problem definition: Low efficiency and high drudgery of farm labour during conventional weeding in gram.

Technology assessed: TO-I: Three tyne Grubber, TO-II: Three tyne wheel hand hoe

### **Result**

Table: Performance of weeding implements for weeding in gram

Monitoring Indicator	Technology options		
	Farmer Practices (Khurpi)	T.O.1 (3-tyne Grubber)	T.O.2 (3-tyne Wheel hand hoe)
Heart rate at work (beats/min)	112.7± 0.66 (5.9)	135.9± 0.79 (7.1)	121.9± 1.34 (12.0)
Weeding Efficiency (%)	93.7±0.25 (2.3)	70.6±1.07 (9.6)	74.9±1.06 (9.5)
Field capacity (ha/h)	0.002	0.003	0.007
Weeding cost	Rs15675(57man-days/ha @Rs275/-	Rs6050(22man-days/ha @Rs275/-	Rs5225(19man-days/ha @Rs275/-

\* Values are means ± standard errors with standard deviation shown in brackets

Table: ANOVA Analysis for heart rate at work for different subjects with different weeding tools

Source of Variation	SS	df	MS	F	P-value	F table
Between Subjects	431.46	7	61.63	1.16	0.38	2.76
Between weeding tools	2253.09	2	1126.54	21.25	5.73E-05	3.74
Error	741.97	14	52.99			
Total	3426.52	23				

SS= Sum of Squares; df= degree of freedom; MS= Mean Square

The effect of subjects on heartbeat were not found to be significant at 5 % level, as the calculated F ratio was less than its table value. Whereas the effect of different weeding tools on heartbeat per minutes were found to be significant at 5 % level, as the calculated F ratio was more than its table value. From the ANOVA table, it was observed that the differences concerning different subjects were not significant at 5 % level (calculated F-

ratio of 1.16 was lesser than table value of 2.76); and also the weeding tools differences concerning subjects were significant (calculated F-ratio of 21.25 was more than its table values of 3.74).

**Conclusion and Recommendation:**

*Conclusion:* The weeding efficiency of khurpi was observed highest (93.7%) followed by 3-tyne wheel hand hoe (74.9%) and three tyne grubber (70.6%). In terms of work output, however, the 3-tyne wheel hand hoe is observed to be the best (0.007ha/h), followed by the 3-tyne hoe (0.003 ha/h), with the khurpi considerably worse (0.002 ha/h).

*Recommendation:* Weeding by 'khurpi' is by far the most labour intensive and this outweighs its other advantages. Therefore, from overall consideration a-twin wheel hoe or three tyne are preferable to the khurpi.

OFT 5: Agriculture Engg.

1.	Title of On farm Trial	Assessment of Sugarcane bud chipper/sugarcane single node bud cutter for drudgery reduction
2.	Problem diagnosed	High drudgery and losses of cane involved in manual sugarcane bud chipping by axe
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice (FP): Sugarcane sett cutting by ax Technology option-I (TO-I): Sugarcane bud chipper. Technology option-II (TO-II): Sugarcane bud cutter.
4.	Source of Technology	TNAU, Coimbatore
5.	Production system and thematic area	Irrigated, Drudgery reduction tools
6.	Performance of the Technology with performance indicators	Bud chipping capacity (buds/hr), Heart rate (beats/Min), Saving in sugarcane (%), sugarcane germination (%)
7.	Final recommendation for micro level situation	Sugarcane bud chipping is economic in terms of savings in sugarcane.
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Trainings, field visits

*Thematic area: Drudgery Reduction*

Problem definition: Low efficiency and high drudgery of farm labour during conventional weeding in gram.

Technology assessed: TO-I: Sugarcane bud chipper, TO-II: Sugarcane bud cutter

Result:

Table: Drudgery reduction using sugarcane bud chipper or sugarcane single node bud cutter.

Monitoring Indicator	No. of trials	Farmer Practices (Sugarcane sett cutting)	T.O.1 (Sugarcane bud cutter)	T.O.2 (Sugarcane bud chipper)
Bud chipping capacity (bud/h)	10/treatment	-	451±37.65 (119.9)	393±17.54 (55.5)
Heart rate at work (beats/min)		127±2.67 (8.4)	110±1.56 (4.9)	113±1.89 (6.0)
Saving in sugarcane (%)		0	65.28	74.47
Sugarcane germination (%)		63	82	92

\*Value are means ± standard errors with standard deviation shown in brackets

Table: ANOVA Analysis for heart rate at work for different subjects with Sugarcane sett cutting, Sugarcane but cutter and sugarcane bud chipper

Source of variation	SS	DF	MS	F	P-value	F table
Between Subject	655.63	9	72.84	1.99	0.10	2.45
Between different bud chippers	1511.46	2	775.73	20.67	2.17E-05	3.55
Error	657.87	18	36.54			
Total	2824.97	29				

SS= Sum of Squares; DF=Degree of freedom; MS=Mean Square

The effect of subjects on heartbeat were found non-significant at 5% level, as the calculated F ratio was lesser than its table value. Whereas the effect of different chipping method on heartbeat per minutes were found to be significant at 5% level, as the calculated F ratio was more than its table value.

**Conclusion and Recommendation:** Saving of sugarcane in sugarcane bud chipper was observed highest (74.47%) followed by single node sugarcane bud cutter (65.28%) and manual bud chipping (0%). Sugarcane bud chipping is economic in terms of savings in sugarcane.

#### OFT 6: Home Science

1	Title of On farm Trial	Assessment of preparation methods of carrot paste for more shelf life, enhancement of nutrition & Income
2	Problem diagnosed	Local people consume fresh carrot as such as vegetables or juice.

3	Details of technologies selected for assessment/refinement	<p>Farmers Practice: Local people consume fresh carrot as such as vegetables or juice.</p> <p>TO<sub>1</sub>- Preparation of carrot paste Formulation-ingredients Carrot-1kg, sugar-250g, Salt-50g, Glacial Ascetic acid-5.0 ml, Sodium Benzoate-1.5g</p> <p>TO<sub>2</sub>- Preparation of carrot paste with spices. Formulation-Ingredients Carrot-1kg, sugar-250g, Salt-50g, Glacial Ascetic acid-2.0 ml, Red chili powder-3.0g, dried Ginger powder-5.0g, dried black pepper powder-2.0g, Cinnamon and Cardamom powder-5.0 g, Sodium Benzoate-1.5g</p> <p>TO<sub>3</sub>- Preparation of carrot paste blended with tomatoes. Formulation-Ingredients Carrot-500g, Tomatoes-500g, sugar-250g, Salt-50g, Glacial Ascetic acid-2.0 ml, Red chili powder-3.0g, dried Ginger powder-5.0g, dried black pepper powder-2.0g, Cinnamon and Cardamom powder-5.0 g, Sodium Benzoate-1.5g</p>
4	Source of Technology	ATARI, Patna
5	Production system & Thematic Area	Value Addition
6	Replication	10
7	Performance of technology with performance indicator	<ol style="list-style-type: none"> <li>1. Sensory Analysis:Taste, Colour, Flavour, Texture (month feel), Overall Acceptability</li> <li>2. Packaging Material: Glass jar/PET jar 500g)</li> <li>3. Shelf life (0, 15, 30, 45, 60 and 75 days at ambient/Refrigerated condition</li> </ol>
8	Final recommendation for micro level situation	A combination of spices, preservatives and packing materials improves the overall acceptability and shelf life of the product. Shelf life of T.O. 2 is more than T.O.1 and T.O.3
9	Constraints identified and feedback for research	Blend of tomato with carrot pest decrease the shelf life of carrot paste.
10	Process of farmers participation and their reaction	Trainings, Field visit

*Thematic area: Value Addition.*

Problem definition:Local people consume fresh carrot as such as vegetables or juice.

Technology assessed: Carrot paste with either carrot paste blended with spices or carrot paste blended with tomatoes.

**Result:**

Table:1 Sensory evaluation of different types of carrot paste

Item	T.O.1 (n=10)			T.O.2 (n=10)			T.O.3 (n=10)		
	Fair	Good	Excellent	Fair	Good	Excellent	Fair	Good	Excellent
Colour	3 (30%)	6 (60%)	1 (10%)	2 (20%)	4 (40%)	4 (40%)	1 (10%)	4 (40%)	5 (50%)
Appearance	3 (30%)	5 (50%)	2 (20%)	1 (10%)	5 (50%)	4 (40%)	1 (10%)	3 (30%)	6 (60%)
Texture	4(40%)	4 (40%)	2 (20%)	2 (20%)	4 (40%)	4 (40%)	2 (20%)	4 (40%)	4 (40%)
Taste	3(30%)	5 (50%)	2 (20%)	3 (30%)	2 (20%)	5 (50%)	1 (10%)	2 (20%)	7 (70%)
Overall acceptability	4(40%)	3 (30%)	3 (30%)	1 (10%)	5 (50%)	4 (40%)	1 (10%)	2 (20%)	7 (70%)

Table:2 Shelf life of different types of carrot paste with using Pet jar packaging material.

Item	T.O.1 (n=10)			T.O.2 (n=10)			T.O.3 (n=10)		
	Fair (0-25 days)	Good (26-50 days)	Excellent (51 & above)	Fair (0-25 days)	Good (26-50 days)	Excellent (51 & above)	Fair (0-25 days)	Good (26-50 days)	Excellent (51 & above)
Shelf life	3 (30%)	5 (50%)	2 (20%)	1 (10%)	4 (40%)	5 (50%)	2 (20%)	5 (50%)	3 (30%)

Recommendation: Carrot paste blended with tomatoes performed better in terms of organoleptic parameters and shelf life compared to carrot paste blended with spices or sole carrot paste.

**OFT 7: Home Science**

1.	Title of On farm Trial	Assessment of preparation methods of potato flakes for more shelf life & enhancement income.
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2.	Problem diagnosed	Local people totally dependend on market available potato flakes.
3.	Details of technologies selected for assessment/refinement	Farmers Practice: Local people consume fresh potatoes as such as vegetables
		TO <sub>1</sub> - Preparation of Potato Flakes Formulation-ingredients Sliced potatoes (3-5mm)-5.0 kg, Salt-50g, Water-7.5 liter, KMS-6.0g
		TO <sub>2</sub> - Preparation of Potato Flakes with sour taste. Formulation-Ingredients Sliced potatoes (3-5mm)-5.0 kg, Salt-50g, Water-7.5 liter, KMS-6.0g, Glacial Ascetic acid-50.0 ml.
4.	Source of Technology	ATARI, Patna
5.	Production system & Thematic Area	Value Addition
6.	Replication	10
7.	Performance of technology with performance indicator	1. Sensory Analysis:Taste, Colour, Flavour, Texture (month feel), Overall Acceptability 2. Packaging Material: Metalize poly ester (200 gauge) 3. Shelf life (0, 15, 30, 45, 60 and 75 days at Amient condition
8.	Final recommendation for micro level situation	A combination of KMS and Glacial acetic acid improve the overall acceptability and shelf life of T.O. 2
9.	Constraints identified and feedback for research	
10.	Process of farmers participation and their reaction	Trainings, Field visit

*Thematic area: Value Addition.*

Problem definition:Local people totally dependend on market available potato flakes.

Technology assessed: TO<sub>2</sub>-Sliced potatoes (3-5mm)-5.0 kg, Salt-50g, Water-7.5 liter, KMS-6.0g, Glacial Ascectic acid-50.0 ml performer better in therms of sensory evaluation and shelf life

**Result:**

Table:1 Sensory evaluation of different types of potato flakes

Item	T.O.1 (n=10)			T.O.2 (n=10)		
	Fair	Good	Excellent	Fair	Good	Excellent
Colour	1 (10%)	7 (70%)	2 (20%)	1 (10%)	4 (40%)	5 (50%)
Appearance	2 (20%)	6 (60%)	2 (20%)	2 (20%)	5 (50%)	3 (30%)
Texture	2(20%)	5 (50%)	3 (30%)	2 (20%)	5 (50%)	3 (30%)
Taste	3(30%)	5 (50%)	2 (20%)	1 (10%)	4 (40%)	5 (50%)
Overall acceptability	2 (20%)	4 (40%)	4 (40%)	1 (10%)	4 (40%)	5 (50%)

Table:2 Shelf life of different types potato flakes with using metalize poly ester.

Item	T.O.1 (n=10)			T.O.2 (n=10)		
	Fair (0-25 days)	Good (26-50 days)	Excellent (51 & above)	Fair (0-25 days)	Good (26-50 days)	Excellent (51 & above)
Shelf life	1 (10%)	6 (60%)	3 (30%)	1 (10%)	5 (50%)	4 (40%)

Recommendation: TO<sub>3</sub>- Carrot-500g, Tomatoes-500g, sugar-250g, Salt-50g, Glacial Ascectic acid-2.0 ml, Red chili powder-3.0g, dried Ginger powder-5.0g, dried black pepper powder-2.0g, Cinnamon and Cardamom powder-5.0 g, Sodium Benzoate-1.5g performed better in terms of sensory evaluation than T.O.1 and T.O.2 but T.O. 2 Carrot-1kg, sugar-250g, Salt-50g, Glacial Ascectic acid-2.0 ml, Red chili powder-3.0g, dried Ginger powder-5.0g, dried black pepper powder-2.0g, Cinnamon and Cardamom powder-5.0 g, Sodium Benzoate-1.5g performed better in terms of shelf life than T.O.1 and T.O. 2.

OFT 8: Animal Science

1.	Title of On farm Trial	Evaluation of area specific mineral mixture in cattle
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2.	Problem diagnosed	Mineral deficiencies in field condition resulting in Pica, anoestrus etc.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<p>F.P. : Inadequate mineral supplementation</p> <p>T.O. 1: Area specific mineral mixture* (ICAR-RCER, Patna)</p> <p>T.O.2 : Commercial mixture**</p> <p>*Area specific mineral mixture contains: Calcium (25.46 %), Phosphorus (13.2 %), Iron (0.16 %), Copper (0.12 %), Mn (0.16 %), Zn (0.99 %), Co (0.02 %), Iodine (1.04 %), Sulphur (1.04 %).</p> <p>** Commercial mineral mixture contains : Calcium (21.68 %), P (9 %), Iron (0.15 %), Copper (0.35 %), Mn (0.15 %), Mg (0.6 %), Zn (0.8 %), Co (0.015 %), Iodine (0.0325 %), Sulphur (0.72 %), K (0.01 %), Se (0.01 %), Na (0.0006 %), Cr (0.0065 %), Vitamins (Per kg vit A :7,00,000 I,U, Vit D3 :70,000 I.U, Vit E 275 mg, Nicotinamide 1000 mg)</p>
4.	Source of Technology	ICAR-RCER, Patna
5.	Production system and thematic area	Intensive Feed Management
6.	Performance of the Technology with performance indicators	Milk yield per day pre and post treatment
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	Non uniform feeding regimen of the farmers
9.	Process of farmers participation and their reaction	Field visits, trainings

Result:

Technology option	No. of trials	Milk yield (L/day)	B:C ratio
Farmers practice	10 cows/treatment	6.846 <sup>a</sup>	1.7
Technology option 1 (Area Specific mineral mixture)		8.96 <sup>b</sup>	2.19
Technology option 2 (Commercial mineral mixture)		9.0 <sup>b</sup>	2.0

ANOVA

Source of variation	Sum of squares	df	Mean Square	F	Sig
Between Groups	2841.215	2	1420.608	418.273	<.001
Within groups	9159.987	2697	3.396		
Total	12001	2699			



## 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					

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.

## 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
Rapeseed and mustard	Crop Production	RH 0749, Seed treatment, Herbicides, Micronutrients, Insecticide	250	100	14.3	11.59	23.38	26900	66495	39595	2.48	25100	53893	28793	2.15
Total			250	100	14.3	11.59	23.38	26900	66495	39595	2.48	25100	53893	28793	2.15

\* 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
Pigeon Pea	Crop Production	Seed variety Rajendra Arhar-1, Micronutrients, pesticides, Line sowing, PSB, Rhizobium can Carbendazim	25	10	16.1	10.5	53.33	23550	96600	73050	4.10	21150	63000	41850	2.98
Lentil	Crop Production	IPL-316, HYV, micronutrients, seed treatment, biofertilizers, pesticides	25	10	11.9	8.5	40.00	22000	60690	38690	2.76	20500	43350	22850	2.11
Green Gram	Crop Production	IPM-02-14, Herbicides, Seed treatment, Micronutrients, Insecticide	25	10	7.8	7.0	11.40	17362	39780	21418	2.29	15862	35700	19838	2.25
Total			75	30	35.8	26	104.73	62912	197070	133158	9.15	57512	142050	84538	7.34

\* 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

## Frontline demonstration under Climate Resilient Agriculture Programme (CRAP)

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		Net Return	** BCR	Net Return	** BCR
Wheat	Crop Production	HD 2967, Zero Tillage	420	168	42	32	31.25	46417	2.27	20722	1.48
Lentil	Crop Production	IPL-316, Zero Tillage	70	20	12	8.5	41.17	26832	1.78	15850	1.57
Mustard	Crop production	Raised bed planting	50	20	14	11.6	20.68	38200	2.42	28840	2.14
Maize	Crop Production	Shaktiman (Shankar), Raised bed planting	79	28	102	54	88.88	137920	3.71	57445	2.35
Wheat	Crop Production	Community Irrigation	15	6	37	32	15.62	34492	1.89	20722	1.48
Potato	Crop Production	Potato based farming system	1.2	10	205	180	13.9	88000	2.15	69900	2.06
Paddy	Crop Production	DSR	48	19	39	28	39.28	39663	2.2	16072	1.44
Paddy	Crop Production	Transplanting	252	101	42	40	5	32214	1.69	22960	1.4
Paddy	Crop Production	Alternate wetting/Drying irrigation	60	24	45	38	18.42	33165	1.65	23826	1.5
Paddy	Crop Production	Nutrients expert/Green Seeker based nutrient management	25	10	42	39	7.69	32214	1.7	25428	1.54
Paddy	Crop Production	Community Irrigation	15	6	38	35	8.57	31046	1.77	22820	1.55
Maize	Crop Production	Raised bed planting	52	16.4	62	45	37.77	43400	1.6	27180	1.48
Maize+Arhar	Crop Production	Intercropping	65	14	59	42	40.47	45135	1.7	30030	1.62
Crop (Arhar) in field											

\* 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		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
ZT Wheat sowing	RCT	ZT	10	4	42	32	31			33500	82950	49450	2.47	35450	63200	27750	1.78
Oats	Fodder Production	Variety (UPO 212)	15	2	610	460	32			35000	61000	26000	1.74	30000	46000	16000	1.53
Berseem	Fodder Production	Variety (JB I )	22	2	820	740	11			43500	82000	38500	1.88	41000	74000	33000	1.80
Okra	Vegetable production	Kashi Pragati	50	0.75	130	110	18			80689	234000	153311	2.9	77344	198000	120656	2.56
Mushroom	Mushroom production	Button	10	-	18 kg/q compost	10 kg/q compost	40			12100	36000	23900	2.97	12000	23000	11000	1.91
Mushroom	Mushroom Production	Oyster	20	-	63kg/10 kg spawn	30.75 kg/10 kg spawn	61			4300	9450	5150	2.19	4300	4612	312	1.07
Banana	Fruit production	G9	20	200 nos.	Result Awaited												
Banana	Fruit production	G9	20	200 nos.													
Oats	Fodder production	UPO212	17	2													
Vegetable kits	Household Food security	vegetables	50														
Improved Sickle	Naveen Sickle	Improved Sickle	20	1.0													
Vegetable Kits (Nenua, Chilli, Gourd, Pumpkin, Brinjal, Lobia)	IIVR	Kitchen Garden	19	-													



## Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit				
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl. specify)																	
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





## Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	02.03.2021	1	31	
		08.03.2021	1	25	
		12.10.21	1	54	
2.	Farmers Training	07.06.2021	1	25	Jal Shakti Abhiyan
		10.06.2021	1	25	
		23.07.2021	1	25	
		30.07.2021	1	25	
		27.08.2021	1	25	
		24.09.2021	1	35	
		12.10.2021	1	34	
3.	Media coverage				
4.	Training for extension functionaries	1 <sup>st</sup> -3 <sup>rd</sup> Dec, 2021	1	10	Malharitola, Manjha (NARI)
		15 <sup>th</sup> -16 <sup>th</sup> Dec, 2021	1	13	Bakhri Balua Tola , Kuchaikote (NARI)
		16 <sup>th</sup> Dec, 2021	1	8	Bishambharpur, Thawe (NARI)
		17 <sup>th</sup> Dec, 2021	1	7	Near Turkaha Nahar, Gopalganj (NARI)

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Summer, Kharif and Rabi 2021:**

**Kharif 2020**

**Crop 1: Pigeon Pea: (Results)**

**A. Technical Parameters:**

S. N.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	No. of farmers	Area (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	Baisakha	10.5	-631	-802	-1450	Rajendra Arhar-1	25	10.0	21.6	11.5	16.1	-4.2	-13	-36

**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
1	Rajendra Arhar-1	21150	63000	41850	2.98	23550	96600	73050	4.10

**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)
1.	Seed Variety Rajendra Arhar-1, micro nutrients, Pesticides, Line sowing PSB, Rhizobium and Carbendazim	16100	5000	52	50	60	Day to Day family need	15

**D. Pulse Farmers' Perception of the interventions 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
1	Seed Variety Rajendra Arhar-1, micro nutrients, Pesticides, Line sowing PSB, Rhizobium and Carbendazim	Early maturity suitable for next kharif season crop	Yield is good, Medium seed lush green crop	All farmers can afford	Nil	Yes	Early showing under assured moisture increase yield

**E. Specific Characteristics of Technology and Performance**

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Seed Variety Rajendra Arhar-1, micro nutrients, Pesticides, Line sowing PSB, Rhizobium and Carbendazim	Lush colour medium grain size preferred by farmers	Good	Much better than local

**Rabi 2020****Crop 2: Lentil: (Results)****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	Nos 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

**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
1	IPL-316 HYV, micronutrients, Seed treatment, biofertilizers, pesticides	20500	43350	22850	2.11	22000	60690	38690	2.76

**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/household)
1.	IPL-316 HYV, micronutrients, Seed treatment, biofertilizers, pesticides	11900	800	45	30	50	Family need	12

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

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					Suggestions, for change/improvement, if any
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	
1	IPL-316 HYV, micronutrients, Seed treatment, biofertilizers, pesticides	Suitable for upland condition	Seed size, colour and taste	All farmers can afford	Nil	Yes	Timely sowing under assured moisture increase yield

**E. Specific Characteristics of Technology and Performance**

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
IPL-316 HYV, micronutrients, Seed treatment, biofertilizers, pesticides	High yielding	Good	better than local check

**F. Extension activities under FLD conducted:**

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training		
2.	Field Visit	27.01.2020 Khem Mathiniya	4
3.	Field Day		

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

## H. Farmers' Training Photographs

### I. Quality Action Photographs of field visits/ field days and technology demonstrated:



#### Rabi 2020

#### Crop 2: Rapeseed and Mustard: (Results)

##### 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	Nos 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.	RH-0749	Panchali	11.59	107	-131	-1241	RH 0749 Seed treatment, Herbicides, Micronutrients, Insecticides	250	100	19.4	8.5	14.3	36	11	-40

**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
1	RH 0749 Seed treatment, Herbicides, Micronutrients, Insecticides	25100	53893	28793	2.15	26900	66495	39595	2.48

**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/household)
1.	RH 0749 Seed treatment, Herbicides, Micronutrients, Insecticides	357500	153	44	45	45	Family need	24

**D. Oilseed Farmers' Perception of the interventions 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
1	RH 0749 Seed treatment, Herbicides, Micronutrients, Insecticides	Suitable for Sugarcane based cropping system	Bold grain size and high oil percentage	Yes	Nil	Yes	Timely showing increase yield

### E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
RH 0749 Seed treatment, Herbicides, Micronutrients, Insecticides	High yielding	Good	better than local check

### F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training	05.11.2020 , KVK, Gopalganj	50
2.	Field Visit	27.01.2020 Khem Matihiniya	7
3.	Field Day	27.01.2020, KhemMatihiniya	15

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



### H. Farmers' Training Photographs



### I. Quality Action Photographs of field visits/ field days and technology demonstrated:



### J. Details of Budget utilization: :( From April, 2020 to March, 2021)

Crop (provide crop wise information )	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Rapeseed and Mustard	i) Critical input	83,605	4,46,975	
	ii) TA/DA/POL etc. for monitoring		3500	
	iii) Extension Activities (Field day)		288	
	iv) Publication of literature		0	
	Return to ATARI, Patna			
	<b>Total</b>	83,605	<b>4,50,763</b>	

### Summer 2021

#### Green Gram: (Results)

#### A. Technical Parameters:

Sl. No	Crop demonstrat ed	Existing (Farmer' s) variety name	Existin g yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technolog y demonstrat ed	Numb er of farmer s	Are a in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				Distri ct yield (D)	Stat e yiel d (S)	Potenti al yield (P)				M ax .	Mi n.	Av.	D	S	P
1.	Green Gram	Sona	7.0	138	-5	-800	IPM-02-14 Herbicides, Seed treatment, Micro nutrients, Insecticide	25	10	11	4.9	7.8	39	11	-48

**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
1	IPM-02-14 Herbicides, Seed treatment, Micro nutrients, Insecticide	15862	35700	19838	2.25	17362	39780	21418	2.29

**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/household)
1.	IPM-02-14 Herbicides, Seed treatment, Micro nutrients, Insecticide	7800	500	68	35	245	Family need	15

**D. Pulse 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
1	IPM-02-14 Herbicides, Seed treatment, Micro nutrients, Insecticide	Early maturity suitable for next kharif season crop	Medium seed lush green crop	All farmers can afford	Nil	Yes	Early showing under assured moisture increase yield

### E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
IPM-02-14 Herbicides, Seed treatment, Micro nutrients, Insecticide	Lush green colour medium grain size preferred by farmers	Good	Much better than local

### F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training		
2.	Field visit		

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



### H. Farmers' training photograph



## I. Quality Action Photographs of field visits/field days and technology demonstrated.

### Rapeseed and Mustard.

#### A. Technical Parameters: 2022(Crop Standing)

S. N.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	No. of farmers	Area (ha)	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1.	Rapeseed	RH 0749	Crop Standing												

#### 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
1	RH 0749	Crop Standing							

#### 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)
1.	RH 0749	Crop Standing						

#### D. Oilseed Farmers' Perception of the interventions 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
1	RH 0749	Crop Standing					

### E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
RH 0749		Crop Standing	

### F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training	03.11.2021, 05.11.2020 , KVK, Gopalganj	60
2.	Field Visit	26.12.2021 Vinod Matihiniya, 14.01.2022 Kala Matihiniya, Vindod Matihiniya, Amwa Vijaypur, 20.01.2022 Khutwaniya, Narayanpur	47
3.	Field Day	20.01.2022, Khutwaniya	31

### F. Sequential good quality Photographs (as per crop stages i.e. growth & development)



### H. Farmers' Training Photographs



### J. Quality Action Photographs of field visits/ field days and technology demonstrated:



### J. Details of Budget utilization: :( From April to Dec, 2021)

Crop (provide crop wise information )	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Rapeseed and Mustard	Committed liability (2020-21)	2,59,971.00	Nil	Nil
	i) Critical input	96,000.00	1,99,491.00	(-) 1,07,962.00
	ii) TA/DA/POL etc. for monitoring		4,471.00	
	iii) Extension Activities (Field day)		0.0	
	iv)Publication of literature		0.0	
	v)Return to ATARI, Patna		0.0	
	<b>Total</b>	<b>3,55,971.00</b>	<b>2,03,962.00</b>	<b>(-) 1,07,962.00</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			
Capacity building for ICT application													
Care and maintenance of farm machinery and implements	1	15	0	15	0	0	0	0	0	0	15	0	15
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													
Gender mainstreaming through SHGs													
<b>TOTAL</b>	<b>3</b>	<b>51</b>	<b>0</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51</b>	<b>0</b>	<b>51</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	25	0	25	0	0	0	0	0	0	25	0	25
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 )	1	21	4	25	0	0	0	0	0	0	21	4	25
<b>II. Horticulture</b>													
<b>a) Vegetable Crops</b>													
Integrated nutrient management	2	47	1	48	2	0	2	0	0	0	49	1	50
Water management													
Enterprise development													
Skill development													
Yield increment	1	25	1	26	2	0	2	0	0	0	27	1	28
Production of low volume and high value crops													
Off-season vegetables	1	24	0	24	1	0	1	0	0	0	25	0	25
Nursery raising	2	39	5	44	6	5	11	0	0	0	45	10	55
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	1	30	0	30	0	0	0	0	0	0	30	0	30
Others, if any (Cultivation of Vegetable)													
Exotic vegetables like broccoli	1	25	3	28	3	1	4	0	0	0	28	4	32
Training and Pruning	1	24	1	25	0	0	0	0	0	0	24	1	25
<b>b) Fruits</b>													
Layout and Management of Orchards	1	31	3	34	1	0	1	0	0	0	32	3	35
Cultivation of Fruit	1	21	0	21	4	0	4	0	0	0	25	0	25
Management of young	1	23	1	24	2	0	2	0	0	0	25	1	26









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			
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	1	3	22	25	0	4	4	0	0	0	3	26	29
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
<b>TOTAL</b>	<b>1</b>	<b>3</b>	<b>22</b>	<b>25</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>26</b>	<b>29</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	25	0	25	0	0	0	0	0	0	25	0	25
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 )	1	21	4	25	0	0	0	0	0	0	21	4	25
<b>TOTAL</b>	<b>2</b>	<b>46</b>	<b>4</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>46</b>	<b>4</b>	<b>50</b>
<b>II. Horticulture</b>													
<b>a) Vegetable Crops</b>													
Integrated nutrient management	4	90	6	96	9	0	9	0	0	0	99	6	105
Water management													
Enterprise development													
Skill development													
Yield increment	2	47	2	49	3	1	4	0	0	0	50	3	53
Production of low volume and high value crops													
Off-season vegetables	2	47	0	47	3	0	3	0	0	0	50	0	50
Nursery raising	5	107	6	113	12	5	17	0	0	0	119	11	130



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			
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>TOTAL</b>													
<b>IV. Livestock Production and Management</b>													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any (Goat farming)													
Others	1	149	14	163	12	2	14	0	0	0	161	16	177
<b>TOTAL</b>	<b>1</b>	<b>149</b>	<b>14</b>	<b>163</b>	<b>12</b>	<b>2</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>161</b>	<b>16</b>	<b>177</b>
<b>V. Home Science/Women empowerment</b>													
Household food security by kitchen gardening and nutrition gardening	1	0	0	0	0	30	30	0	0	0	0	30	30
Design and development of low/minimum cost diet	2	1	20	21	0	33	33	0	0	0	1	53	54
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition	4	0	45	45	0	65	65	0	0	0	0	110	110
Income generation activities for empowerment of rural Women	6	0	110	110	0	60	60	0	0	0	0	170	170
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
<b>TOTAL</b>	<b>13</b>	<b>1</b>	<b>175</b>	<b>176</b>	<b>0</b>	<b>188</b>	<b>188</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>363</b>	<b>364</b>
<b>VI. Agril. Engineering</b>													
Installation and maintenance of micro irrigation systems	3	67	2	69	3	0	3	0	0	0	70	2	72
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements	6	147	5	152	20	0	20	0	0	0	167	5	172
Small scale processing and value addition													
Post Harvest Technology	3	64	11	75	0	0	0	0	0	0	64	11	75



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				
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>														
<b>TOTAL</b>														
	<b>83</b>	<b>1762</b>	<b>357</b>	<b>211</b>	<b>163</b>	<b>223</b>	<b>386</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>192</b>	<b>5</b>	<b>579</b>	<b>250</b>

## 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	3	73	13	86	7	2	9	0	0	0	80	15	95
Bee-keeping	2	52	16	68	7	2	9	0	0	0	59	18	77
Integrated farming													
Seed production													
Integrated crop management													
Production of organic inputs													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements	4	80	0	80	1	0	1	0	0	0	81	0	81
Nursery Management of Horticulture crops	1	23	0	23	2	0	2	0	0	0	25	0	25
Training and pruning of orchards													
Value addition	1	0	9	9	0	24	24	0	0	0	0	33	33
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	22	0	22	4	0	4	0	0	0	26	0	26



Care and maintenance of farm machinery and implements	1	15	0	15	0	0	0	0	0	0	15	0	15
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care	1	3	22	25	0	4	4	0	0	0	3	26	29
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
<b>TOTAL</b>	<b>4</b>	<b>54</b>	<b>22</b>	<b>76</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54</b>	<b>26</b>	<b>80</b>

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
<b>Agronomy</b>										
18.08.21	PF	Weed management in Paddy	1	Off	25	0	25	0	0	0
11.10.21	PF	Improved technology of oilseed cultivation	1	Off	21	4	25	0	0	0
<b>Plant Protection</b>										
04.01.21	PF	IPM in Pulse crop	1	On	20	7	27	1	0	1
11.01.21	PF	IPM in vegetable crops	1	Off	22	3	25	6	0	6
22.01.21	PF	IPM in sugarcane	1	On	13	9	22	3	0	3
01.02.21	PF	Mushroom production	1	On	14	3	17	1	0	1
02.02.21	PF	IPM in Wheat	1	Off	20	11	31	3	4	7
03.03.21	PF	IPM in wheat crop	1	Off	45	5	50	4	4	8
01.04.21	PF	IPM in green gram	1	On	22	0	22	0	0	0
16.05.21	PF	Honey bee farming	1	Virtual	12	0	12	0	0	0
06.08.21	PF	IPM in Maize crop	1	Off	30	5	35	1	0	1
11.08.21	PF	Pest management in sugarcane	1	Off	19	13	32	0	1	1

14.08.21	PF	IPM in Paddy crop	1	On	26	0	26	1	0	1
15.09.21	PF	IPM in Paddy	1	On	44	1	45	0	0	0
07.10.21	PF	Seed treatment in rabi crop	1	Off	21	9	30	1	2	3
17.11.21	PF	IPM in rapeseed & mustard	1	On	50	2	52	6	0	6
20.11.21	PF	IPM in maize crop	1	On	48	1	49	8	0	8
22.11.21	PF	Seed treatment in potato crop	1	On	21	1	22	1	0	1
06.12.21	PF	IPM in wheat crop	1	On	25	3	28	1	0	1
10.12.21	PF	IPM in wheat crop	1	On	17	8	25	4	0	4
25.12.21	PF	IPM in pulses crop	1	On	17	8	25	5	4	9
<b>Animal Science</b>										
01.06.21	PF	Cattle Production	1	Virtual	28	0	28	0	0	0
26.06.21	PF	Importance of water conservation in agriculture and livestock	1	Virtual	20	0	20	2	0	2
28.09.21	PF	Climate Resilient Agricultural practices for higher crop and livestock	1	On	161	16	177	12	2	14
19.08.21	PF	PPR Disease in goats prevention and control	1	Virtual	31	0	31	0	0	0
<b>Horticulture</b>										
12.01.21	PF	Orchard planning, layout and planting system	1	Off	32	3	35	1	0	1
18.01.21	PF	Intercropping in orchard for enhanced income	1	Off	27	1	28	2	0	2
27.01.21	PF	Protected cultivation of vegetables	1	Off	30	0	30	0	0	0
30.01.21	PF	Use of shade net for nursery purpose	1	On	25	0	25	2	0	2
15.02.21	PF	Nursery management of horticultural crops	1	On	25	0	25	0	0	0
19.02.21	PF	Production of off season	1	On	25	0	25	2	0	2

		vegetables								
22.02.21	PF	Nursery management of commercial flower	1	Off	21	9	30	3	5	8
24.02.21	PF	INM in summer season vegetables	1	On	25	0	25	2	0	2
05.03.21	PF	Cultivation of tomato	1	On	25	0	25	2	0	2
10.03.21	PF	Training and pruning in fruit plant	1	Off	24	1	25	0	0	0
20.03.21	PF	Cultivation of elephant foot yam	1	Off	27	0	27	0	0	0
23.03.21	PF	Micro irrigation systems of orchard	1	Off	23	7	30	1	3	4
06.04.21	PF	Orchard planning, lay out and planting system	1	On	25	0	25	2	0	2
25.05.21	PF	Orchard planning, lay out and planting system	1	Virtual	10	0	10	0	0	0
18.06.21	PF	Balance use of fertilizer	1	On	25	5	30	5	0	5
26.07.21	PF	Papaya cultivation and value addition	1	Virtual	32	0	32	2	0	2
19.08.21	PF	Nursery management of vegetable crop	1	On	24	1	25	3	0	3
30.08.21	PF	INM in winter season vegetable	1	Off	25	0	25	2	0	2
31.08.21	PF	Nursery raising of vegetable crop	1	Off	24	1	25	3	0	3
13.09.21	PF	Nursery management of commercial flowers	1	On	25	0	25	3	0	3
25.09.21	PF	Production and management of seed spices	1	On	25	0	25	1	0	1
07.10.21	PF	INM in winter cool season vegetables	1	Off	24	1	25	0	0	0
08.10.21	PF	Management of newly establish	1	Off	25	0	25	2	0	2

11.10.21	PF	Cultivation of broccoli	1	Off	28	4	32	3	1	4
06.11.21	PF	Protected cultivation of vegetables	1	On	22	3	25	0	0	0
20.11.21	PF	Production of off season vegetable	1	Off	25	0	25	1	0	1
27.11.21	PF	Cultivation of Papaya and value addition	1	Off	25	0	25	4	0	4
02.12.21	PF	Intercropping in sugarcane	1	On	23	2	25	1	1	2
<b>Agriculture Engineering</b>										
15.01.21	PF	Improved irrigation practices for better production of crops	1	Off	30	0	30	0	0	0
01.02.21	PF	Installation, Operation and maintenance of sprinkler irrigation system	1	On	15	0	15	2	0	2
02.02.21	PF	Different structure for storage of grains	1	Off	14	11	25	0	0	0
01.03.21	PF	Operation and maintenance of paddy transplanter	1	On	12	1	13	0	0	0
08.03.21	PF	Use of laser land leveler for better yield of crops	1	Off	21	1	22	3	0	3
08.03.21	PF	Cultivation of moong through ZT	1	On	25	0	25	1	0	1
01.04.21	PF	Selection, Operation, Safety and maintenance of improved tillage implements	1	On	30	0	30	3	0	3
05.04.21	PF	Repair, maintenance and storage of tractor	1	On	30	0	30	3	0	3
17.05.21	PF	Summer deep ploughing how and why?	1	Virtual	45	5	50	0	0	0
21.05.21	PF	Suitable agricultural machines for seeding and transplanting of paddy crop	1	Virtual	16	1	16	0	1	1

22.05.21	PF	Farm mechanization and its importance	1	Virtual	22	0	22	0	0	0
16.07.21	PF	Surface irrigation methods-water conservation	1	Virtual	19	1	20	2	0	2
11.08.21	PF	Application of wheel hoe for weed management of different crops	1	Off	25	0	25	6	0	6
12.08.21	PF	Mechanical weed management in paddy crop	1	Off	24	1	25	3	0	3
13.08.21	PF	Nitrogen management in paddy through LCC	1	On	25	0	25	0	0	0
14.08.21	PF	Operation and maintenance of paddy transplanter	1	Off	25	0	25	2	0	2
16.08.21	PF	Mechanical weed management in paddy crop	1	Off	43	7	50	3	0	3
18.08.21	PF	Nitrogen management in paddy through LCC	1	On	25	0	25	0	0	0
10.09.21	PF	INM through LCC	1	On	21	8	29	6	1	7
14.09.21	PF	Improved agricultural tools/Equipments for women farmers	1	On	8	17	25	1	5	6
20.09.21	PF	Storage condition of various fruits and vegetables	1	On	25	0	25	0	0	0
03.11.21	PF	Scientific cultivation of mustard	1	On	32	3	35	1	0	1
05.11.21	PF	Scientific cultivation of mustard	1	On	25	0	25	9	0	9
06.11.21	PF	Post harvest management and storage of wheat	1	On	25	0	25	0	0	0
20.11.21	PF	Raised bed planter for maize	1	On	48	1	49	8	0	8
06.12.21	PF	Operation and	1	On	22	3	25	4	0	4

		maintenance of raised bed planter								
17.12.21	PF	Installation, Operation and maintenance of sprinkler irrigation system	1	On	23	2	25	1	0	1
<b>Home Science</b>										
18.02.21	PF	Block Printing	1	On	0	30	30	0	4	4
11.03.21	PF	Candle making	1	Off	0	29	29	0	4	4
12.03.20	PF	Value addition of seasonal vegetables	1	On	0	25	25	0	25	25
19.03.21	PF	Pot decoation	1	Off	0	25	25	0	4	4
23.03.21	PF	Value addition of mushroom	1	Off	0	27	27	0	3	3
13.05.21	PF	Value addition of seasonal vegetables	1	Virtual	0	16	16	0	16	16
19.05.21	PF	Low cost weaning food	1	Virtual	0	15	15	0	15	15
19.06.21	PF	Tie and dye	1	Virtual	0	17	17	0	16	16
26.06.21	PF	Preparation of different types of papar	1	Virtual	1	13	14	1	10	11
28.07.21	PF	Poshan Vatika	1	Virtual	10	8	18	0	3	3
14.08.21	PF	Value addition of seasonal fruits	1	Off	0	25	25	0	25	25
21.08.21	PF	Low cost weaning food	1	On	0	25	25	0	25	25
06.10.21	PF	Kitchen gardening for going rabi vegetables	1	On	0	30	30	0	30	30
02.11.21	PF	Value addition of seasonal vegetables	1	On	0	32	32	0	12	12
10.12.21	PF	Agarwati making	1	On	0	30	30	0	24	24
20.12.21	PF	Envelope making	1	Off	0	26	26	0	10	10
21.12.21	PF	Pot decoration	1	Off	0	30	30	0	14	14
<b>Plant Protection</b>										
22 <sup>nd</sup> -24 <sup>th</sup> Feb, 21	RY	Mushroom Production	3	Off	27	11	38	3	2	5
23 <sup>rd</sup> -26 <sup>th</sup> Aug,21	RY	Mushroom production	4	On	23	4	27	3	0	3
13 <sup>th</sup> -15 <sup>th</sup> Sep, 21	RY	Unnat Madhu Utpadan	3	Off	7	16	23	0	2	2
16 <sup>th</sup> -18 <sup>th</sup> Sep, 21	RY	Bee Keeping	3	On	52	2	54	7	0	7
22 <sup>nd</sup> -23 <sup>rd</sup> Dec,21	RY	Mushroom Production	2	Off	30	0	30	1	0	1
<b>Animal Science</b>										

09 <sup>th</sup> -12 <sup>th</sup> Aug, 21	RY	Poultry production	4	On	26	0	26	4	0	4
<b>Horticulture</b>										
01 <sup>st</sup> -06 <sup>th</sup> Feb, 21	RY	Nursery management of horticultural crop	6	On	25	0	25	2	0	2
<b>Agriculture Engineering</b>										
19 <sup>th</sup> -23 <sup>rd</sup> March, 21	RY	Selection, Operation, Safety and maintenance of harvesting impliments	5	On	24	0	24	0	0	0
01 <sup>st</sup> -04 <sup>th</sup> Sep, 21	RY	Farm machinery technician	4	On	27	0	27	1	0	1
04 <sup>th</sup> -08 <sup>th</sup> Oct, 21	RY	Tractor Operator	5	On	25	0	25	0	0	0
01 <sup>st</sup> -03 <sup>rd</sup> Nov, 21	RY	Combine harvester operator	3	On	5	0	5	0	0	0
<b>Home Science</b>										
11 <sup>th</sup> - 13 <sup>th</sup> Jan, 21	RY	Value addition of seasonal vegetables	3	On	0	33	33	0	24	24
27 <sup>th</sup> -29 <sup>th</sup> Jan, 21	RY	Herbal Gulal	3	On	0	29	29	0	9	9
06 <sup>th</sup> -09 <sup>th</sup> Sep, 21	RY	Tie and Dye	4	On	0	30	30	0	10	10
17.09.21	RY	Poshan Vatika	1	On	0	71	71	0	25	25
26.10.21	RY	Poshan Vatika	1	Virtual	35	15	50	0	0	0
<b>Horticulture</b>										
26.07.21	EF	Papaya cultivation and value addition	1	Virtual	30	2	32	2	0	2
<b>Agriculture Engineering</b>										
08.01.21	EF	Conservation tillage for resource management	1	On	25	0	25	0	0	0
04.02.21	EF	Selection, Operation, Repair and maintenance of threshing machines	1	On	0	15	15	0	0	0
24.07.21	EF	Micro irrigation systems	1	Virtual	97	3	100	15	0	15
22.05.21	EF	Farm mechanization and its importance	1	Virtual	22	0	22	0	0	0
<b>Home Science</b>										
23.08.21	EF	Hygiene and sanitation	1	Off	3	26	29	0	4	4

## 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			Nos. of persons employed elsewhere
				Male	Female	Total	Type of units	No. of units	No. of persons employed	
Mushroom Production	Mushroom Production	Mushroom Production	3	27	11	38				
Mushroom Production	Mushroom Production	Mushroom Production	4	23	4	27				
Bee Keeping	Bee Keeping	Bee Keeping	3	7	16	23				
Bee Keeping	Bee Keeping	Bee Keeping	3	52	2	54				
Mushroom Production	Mushroom Production	Mushroom Production	2	30	0	30				
Poultry Production	Poultry Production	Poultry Production	4	26	0	26				
Nursery Mangement	Nursery Mangement	Nursery management of horticultural crop	6	25	0	25				
Farm Mechanization	Farm Mechanization	Selection, Operation, Safety and maintenance of harvesting impliments	5	24	0	24				
Farm Mechanization	Farm Mechanization	Farm machinery technician	4	27	0	27				
Farm Mechanization	Farm Mechanization	Tractor Operator	5	25	0	25				
Farm Mechanization	Farm Mechanization	Combine harvester operator	3	5	0	5				
Value Addition	Value Addition	Value addition of seasonal vegetales	3	0	33	33				
Enterprise	Enterprise	Herbal Gulal	3	0	29	29				
Enterprise	Enterprise	Tie and Dye	4	0	30	30				

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

## D) Sponsored Training Programmes

S. N.	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants										Sponsor. Agency
					PF/ RY/ EF		Male			Female			Total				
							Others	SC	ST	Others	SC	ST	Others	SC	S T	Total	
1	Agricultural workshop on Energy Conservation	Energy conservation	March, 21	1	PF	1	27	3	0	0	0	0	27	3	0	30	PCRA
2	Agricultural workshop on Energy Conservation	Energy conservation	March, 21	1	PF	1	27	3	0	0	0	0	27	3	0	30	PCRA
<b>Total</b>				<b>2</b>		<b>2</b>	<b>54</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54</b>	<b>6</b>	<b>0</b>	<b>60</b>	

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

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	3	103	7	110	9	5	0	5	108	7	115
KisanMela	5	1368	120	1488	15	25	5	30	1393	125	1518
KisanGhoshi	2	188	22	210	10	20	2	22	208	24	232
Exhibition											
Film Show											
Method Demonstrations											
Farmers Seminar											
Workshop											
Group meetings											
Lectures delivered as resource persons	15	745	162	907	5	15	0	15	760	162	922
Advisory Services	12	1700	49	1749	5	0	0	0	1700	49	1749
Scientific visit to farmers field	12	280	14	294	5	0	0	0	280	14	294
Farmers visit to KVK	12	750	29	779	5	0	0	0	750	29	779
Diagnostic visits	14	16	3	19	5	14	0	14	30	3	33
Exposure visits	10	679	177	856	5	30	0	30	709	177	886
Ex-trainees Sammelan											
Soil health Camp											
Animal Health Camp	1	23	1	24	4	3	0	3	26	1	27
Agri mobile clinic											
Soil test campaigns											
E-Chaupal	3	120	7	127	4	5	5	7	125	12	137
Celebration of important days (specify)											
Rabi Mahabhiyan (Oct to Nov)	9	1830	400	2230	13	30	1	31	1860	401	2261
IIHR National Fair Live telecast (10.02.21)	1	50	0	50	4	5	1	6	50	1	51
International Women Day(08.03.21)	1	27	12	39	5	5	1	6	32	13	45
World Water Day (22.03.21)	1	38	15	53	2	5	1	6	43	16	59
Kisan Samman Nidhi Installment Release	1	14	5	21	0	5	1	6	19	6	25
World Bee Day (20.05.21)	1	12	0	12	0	5	1	6	17	1	18
World Milk Day (01.06.21)	1	96	0	96	5	5	1	6	101	0	101
Balance use of fertilizer (18.06.21)	1	26	4	30	6	5	1	6	31	5	36
ICAR foundation day (16.07.21)	1	55	0	55	4	5	1	6	60	1	61
National Campaign on food and nutrition for farmers (26.08.21)	1	104	21	125	8	5	1	6	109	22	131
Poshan Vatika and tree Plantation (17.09.21)	1	190	71	261	15	10	1	11	200	72	272
Climate Resilient Agriculture and farmer scientist interface (28.09.21)	1	93	116	209	12	5	1	6	98	117	215
Special Swacchata campaign (06.10.21)	1	58	45	103	5	5	1	6	63	46	109
Mahila Kisan Diwas (15.10.21)	1	0	38	38	3	5	1	6	5	39	44
World Food Day (16.10.21)	1	35	0	35	3	5	1	6	40	1	41
Agriculture and Environment: The Citizen Face (26.11.21)	1	34	81	115	12	10	1	11	46	91	137
Natural Farming (30.11.21)	1	22	4	26	4	5	1	6	27	5	32
World Soil Day (05.12.21)	1	70	0	70	13	15	1	16	85	1	86
Live telecast natural farming (16.12.21)	1	289	22	311	18	15	1	16	304	23	327
Swacchata Pakhwada celebration (16 <sup>th</sup> to 31 <sup>st</sup> Dec, 21)	1	42	4	46	2	5	1	6	47	5	52
Kisan Diwas (23.12.21)	1	24	6	30	4	5	1	6	29	7	36
Farmer Scientist interaction	1	190	10	200	12	12	1	13	202	11	213
Mukhaya Mantri Ganna Vikash Karyakram (23.11.21)	1	270	30	300	15	5	0	5	275	30	305
<b>Total</b>	<b>120</b>	<b>9541</b>	<b>1475</b>	<b>11018</b>		<b>294</b>	<b>34</b>	<b>325</b>	<b>9832</b>	<b>1517</b>	<b>11349</b>

## B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	150
Radio talks	
TV talks	
Popular articles	
Extension Literature	
Other, if any	

## 3.5 a. Production and supply of Technological products

*Village seed*

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided			
					SC	ST	Other	Total
Total								

*KVK farm*

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Pea	HUDP-15	2.50					
Wheat	HD 2967	187.0					
Paddy	R. Saraswati	-					
Rapeseed	R. Suflam	0.80					
Grand Total							

## Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
<b>Vegetable seedlings</b>							
Cauliflower	Hybrid	2872	4308.00				
Cabbage							
Tomato	Hybrid	1060.0	636.00				
Brinjal							
Chilli							
Cucurbits	Hybrid	1300	7278.00				
Others							
<b>Fruits</b>							
Mango							
Guava	L-49	7	350.00				
Lime							

Papaya	Red Lady	540	13500.00				
Banana							
Others (Litchi)	Shahi, Rose Scented	206	10300.00				
Ornamental plants							
Medicinal and Aromatic							
Plantation							
Spices							
Turmeric							
Tuber							
Elephant yams							
Fodder crop saplings							
Forest Species							
Others, pl.specify							
<b>Total</b>			<b>36372.00</b>				

### Production of Bio-Products

Name of product	Quantity	Value (Rs.)	No. of Farmers benefitted			
	Kg		SC	ST	Other	Total
Bio-fertilizers						
Bio-pesticide						
Bio-fungicide						
Bio-agents						
Others, please specify. (Vermicompost)	4000	20000	Used at farm			
<b>Total</b>						

### Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
<b>Dairy animals</b>							
Cows							
Buffaloes							
Calves							
Others (Pl. specify)							
<b>Small ruminants</b>							
Sheep							
Goat							
Other, please specify							
<b>Poultry</b>							
Broilers							
Layers							
Duals (broiler and layer)							
Japanese Quail							
Turkey							
Emu							

Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Hog				
Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Mixed carp				
Fish fingerlings				
Spawn				
Others (Pl. specify)				
Grand Total				

### 3.5. b. Seed Hub Programme-“Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India”

i) Name of Seed Hub Centre:

Name of Nodal Officer :	
Address :	
e-mail :	
Phone No. : Mobile :	

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed(F/S, C/S)
Kharif 2021						
Rabi 2021						
Summer/Spring 2021						

iii) Financial Progress

Fund received (2016-17, 2017-18, 2019, 2020 and 2021)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2016-17				
2017-18				
2019				
2020				
2021				

## iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

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

Item	Title	Author's name	Number	Circulation
Research paper	Effectiveness of three manually operated weeding tools for farm women (2020)	Naveen Kumar, Md. Sajid Hussain, Ravikant, R.K. Roy	Agricultural Engineering Today. 44:4:8-13	
	An instrumentation system for monitoring field performance of agricultural tractor under ballasting and non-ballasting condition (2020)	Sanjeev Kumar, <b>Naveen Kumar</b> , Ritesh Kumar, K.P. Pandey	Agricultural Engineering Today. 44:2:32-40	
	Cryoprotective activity of Glycerol and Ethylene Glycol: Dynamics with Canine Sperm Integrity(2021)	Kaushal Kusum, <b>Ramakrishna Roy</b> , Vijay B., Sharma, Raghavendra Prasad Mishra, Neha Singh	Accepted for publication by Indian Journal of Animal Research	
	Scanning electron microscopy indicates Pseudomonas strains facilitate AMF mycorrhization in litchi (Litchi chinensis	<b>Amit Visen</b> , Pramodh Narayan Singh, Binayak Chakraborty, Anand Singh, Tejpal Singh Bisht	Current Research in Microbial Sciences 2 (2021) 10063	

	Sonn.) air-layers and improving survivability, growth and leaf nutrient status (2020)			
Seminar/conference/symposia papers	Value added products of mushroom: An innovative method for self employment pp 65-69	Sunita Paswan, Kumar Sanjeev, Anita Gautam, And Ragini Kumari	National web conference on mushroom production: An Emerging avenue for rural youth and self employment at Mandan Bharti College, Agwanpur Saharsa-	
	Nutritional and medicinal importance of mushroom .pp 72-74	Anita Gautam, Sunita Paswan		
Abstracts Accepted	Gaps in Cattle Feed and Fodder in Gopalganj district of Bihar	Ramakrishna Roy	Virtual National Seminar on Advances in Sustainable Management of Natural Resources for Food and Nutritional Security 26-27 August, 2021 (Organized by NAU, Navsari)	
	Status of farm mechanization in Gopalganj district of Bihar	Naveen Kumar		
Books				
Bulletins				
News letter				
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature				
Technical reports				
Electronic Publication (CD/DVD etc)				
TOTAL				

N.B.: Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Trainings	Statistical data analysis using SPSS	Dr. Anita Gautam, SMS (Home Science)	21 <sup>st</sup> to 27 <sup>th</sup> May, 2021 (7	Science Tech

			Days)	Institute Lucknow	
		EDNF recipes under SNP of ICDS	Dr. Anita Gautam, SMS (Home Science)	17 <sup>th</sup> and 19 <sup>th</sup> June, 2021 (Two days)	
		One District One Product programme	Dr. Ramakrishna Roy, Sr. Scientist and Head Dr. Amit Visen SMS (Horticulture)	6 <sup>th</sup> July, 2021 (One day)	DAO, Gopalganj
		Programming on web application using low code platforms”	Er. Naveen Kumar SMS (Ag. Engg.)	7 <sup>th</sup> to 12 <sup>th</sup> July, 2021 (Six days)	NAARM
		Orientation cum training programme on use of statistical tools in agriculture and allied field	Er. Naveen Kumar SMS (Ag. Engg.) Dr. Anita Gautam, SMS (Home Science)	16 <sup>th</sup> to 19 <sup>th</sup> August, 2021 (Four days)	Society of Krishi Vigyan Kendra
		Technological intervention for rural entrepreneurship	Er. Naveen Kumar SMS (Ag. Engg.) Dr. Amit Visen SMS (Horticulture)	27 <sup>th</sup> to 30 <sup>th</sup> July, 2021 (Four days)	ICAR- IIWR, Karnal
		Roadmap for KVKs to enhance mushroom production and consumption	Dr. Anita Gautam, SMS (Home Science)	9 <sup>th</sup> to 11 <sup>th</sup> Aug, 2021 (One day)	
		Kisan Sarthi	Shri Sanjay Kumar, SMS (Entomology)	12 <sup>th</sup> Aug, 2021 (One day)	
		Integrated Parthenium Management	Shri Ravikant Kumar Farm Manager	19 <sup>th</sup> Aug, 2021 (One day)	
		Digital training programme on fruit science research progress and prospects	Dr. Amit Visen SMS (Horticulture)	01 <sup>st</sup> to 08 <sup>th</sup> Sep, 2021 (Eight days)	Deptt, of Horticulture, Dr. RPCAU, Pusa
		21 days National training course on “Advances in veterinary Research for sustainable development of livestock sector”	Dr. Ramakrishna Roy, Sr. Scientist and Head	01 <sup>st</sup> -21 <sup>st</sup> Sep, 2021 (21 days)	ICAR- IVARI, Regional station, Palalmpur and NADCL, Baramullah
		Kisan Sarathi	Dr. Ramakrishna Roy, Sr. Scientist and Head Er. Naveen Kumar SMS (Ag. Engg.) Shri Sanjay Kumar, SMS (Entomology)	25 <sup>th</sup> Oct, 2021 (One day)	
		Health and Nutrition aspect	Dr. Anita Gautam, SMS (Home Science)	9 <sup>th</sup> Nov, 2021 (One day)	
	Webinar	Webinar on “Rodent Management”	Shri Sanjay Kumar, SMS (Entomology)	01 <sup>st</sup> July, 2021 (One day)	
		National Webinar on “Microbial biopesticides next generation”	Shri Sanjay Kumar, SMS (Entomology)	2 <sup>nd</sup> July, 2021 (One day)	
		Webinar on “Role of microbial organisms in resilient agriculture”	Shri Sanjay Kumar, SMS (Entomology)	5 <sup>th</sup> July, 2021 (One day)	
		Webinar on “Agricultural Residues conversion to biofuels	Shri Ravikant Kumar Farm Manager	27 <sup>th</sup> Aug, 2021	

		through solar powered pyrolysis”		(One day)	
		National webinar on “scientific Goat farming from livelihood to financial security”	Dr. Ramakrishna Roy, Sr. Scientist and Head	18 <sup>th</sup> Sep, 2021 (One day)	ICAR-RCER, Patna
		Webinar on “Important animal diseases and their control program in India”	Dr. Ramakrishna Roy, Sr. Scientist and Head	23 <sup>rd</sup> Oct, 2021 (One day)	ICAR-RCER, Patna
	Web Conferences	Web conference on “Management of water logged and flood prone areas in Bihar”	Dr. Ramakrishna Roy, Sr. Scientist and Head	5 <sup>th</sup> June, 2021 (One day)	NAHEP, Dr. RPCAU, Pusa
		International conference (online) on “Agriculture, Biological and Life science (ICABLS-2021)	Dr. Anita Gautam, SMS (Home Science)	25 <sup>th</sup> to 26 <sup>th</sup> Sep, 2021 (Two days)	Vidya Kutir foundation (Registered), New Delhi
		IFFCO National Conference		25 <sup>th</sup> Sep, 2021 (One day)	
3.	National Seminar	National Seminar on “Advances in sustainable management of National Resource for food and National security	Dr. Ramakrishna Roy, Sr. Scientist and Head Er. Naveen Kumar SMS (Ag. Engg.) Dr. Anita Gautam, SMS (Home Science)	26 <sup>th</sup> -27 <sup>th</sup> Aug, 2021 (Two days)	Navsari Agriculture University, Gujrat
		National Seminar on “Rice fallow management in Eastern India	Shri Ravikant Kumar Farm Manager	26 <sup>th</sup> Aug, 2021 (One day)	
4	Winter school				
5	Workshop	OFT workshop on Horticulture	Dr. Ramakrishna Roy, Sr. Scientist and Head Dr. Amit Visen SMS (Horticulture)	25 <sup>th</sup> -26 <sup>th</sup> March, 2021 (Two days)	Dr. RPCAU, Pusa
		Pre-meeting zonal workshop	Dr. Ramakrishna Roy, Sr. Scientist and Head	3 <sup>rd</sup> July, 2021 (One day)	
		Pre-presentation of zonal workshop	Dr. Ramakrishna Roy, Sr. Scientist and Head	12 <sup>th</sup> July, 2021 (One day)	Dr. RPCAU, Pusa, DoEE
		Presentation at zonal workshop	Dr. Ramakrishna Roy, Sr. Scientist and Head	14 <sup>th</sup> -15 <sup>th</sup> July, 2021 (Two days)	
		Zonal Workshop	Shri Sanjay Kumar SMS (Ento.)	9 <sup>th</sup> Sep, 2021 (One day)	TCA, Dholi
		Vetting workshio on DACP	Dr. Ramakrishna Roy, Sr. Scientist and Head	1 <sup>st</sup> Nov, 2021 (One day)	Dr. RPCAU, Pusa
6.	Meeting	District Contingent Plan	Dr. Ramakrishna Roy, Sr. Scientist and Head	12 <sup>th</sup> Feb, 2021 (One day)	
		District Kisan mela	Dr. Ramakrishna Roy, Sr. Scientist and Head	12 <sup>th</sup> Feb, 2021 (One day)	
		NHM meeting	Dr. Ramakrishna Roy, Sr. Scientist and Head	12 <sup>th</sup> Feb, 2021 (One day)	
		Assessment, validation and refinement	Dr. Ramakrishna Roy, Sr. Scientist and Head	17 <sup>th</sup> Feb, 2021 (One day)	
		Disrict Kisan Mela	Dr. Ramakrishna Roy, Sr. Scientist and Head	20 <sup>th</sup> Feb, 2021 (One day)	
		KVKs as leaders in Natural farming education	Dr. Ramakrishna Roy, Sr. Scientist and Head	25 <sup>th</sup> Feb, 2021 (One day)	

	Budget Expenditure	Dr. Ramakrishna Roy, Sr. Scientist and Head	18 <sup>th</sup> March, 2021 (One day)	
	SAC	KVK	24 <sup>th</sup> March, 2021 (One day)	
	Budget Expenditure	Dr. Ramakrishna Roy, Sr. Scientist and Head	27 <sup>th</sup> March, 2021 (One day)	
	Monthly Review meetin of KVK	Dr. Ramakrishna Roy, Sr. Scientist and Head		
	Task Force meeting	Dr. Amit Visen SMS (Horticulture)	21 <sup>st</sup> April, 2021 (One day)	
	Custom Hiring	Dr. Ramakrishna Roy, Sr. Scientist and Head Dr. Amit Visen SMS (Horticulture) Shri Ravikant Kumar Farm Manager	26 <sup>th</sup> April, 2021 (One day)	
	ATARI, Patna	Dr. Ramakrishna Roy, Sr. Scientist and Head	7 <sup>th</sup> June, 2021 (One day)	
	CRA Programme	Shri Sanjay Kumar SMS (Ento.) Er. Naveen Kumar SMS (Ag. Engg.)	10 <sup>th</sup> June, 2021 (One day)	
	Monthly Review meeting of KVK	Dr. Ramakrishna Roy, Sr. Scientist and Head	16 <sup>th</sup> June, 2021 (One day)	
	Review of KVKs	Dr. Ramakrishna Roy, Sr. Scientist and Head	23 <sup>rd</sup> June, 2021 (One day)	
	Kisan Sarthi	Dr. Ramakrishna Roy, Sr. Scientist and Head Shri Sanjay Kumar SMS (Ento.) Er. Naveen Kumar SMS (Ag. Engg.)	23 <sup>rd</sup> July, 2021 (One day)	
	Review of work	Dr. Ramakrishna Roy, Sr. Scientist and Head	4 <sup>th</sup> Aug, 2021 (One day)	
	Pre-EEC and EEC meeting	Dr. Ramakrishna Roy, Sr. Scientist and Head	3 <sup>rd</sup> -4 <sup>th</sup> Sep, 2021 (Two days)	
	CRA programme review meeting	Dr. Ramakrishna Roy, Sr. Scientist and Head Er. Naveen Kumar SMS (Ag. Engg.)	13 <sup>th</sup> Sep, 2021 (One days)	
	Zila Bagwani Vikash Samiti	Dr. Amit Visen SMS (Horticulture)	22 <sup>nd</sup> Sep, 2021 (One days)	
	ATARI, Patna	Dr. Ramakrishna Roy, Sr. Scientist and Head	27 <sup>th</sup> Sep, 2021 (One days)	
	IFPRI	Dr. Ramakrishna Roy, Sr. Scientist and Head	11 <sup>th</sup> Oct, 2021 (One days)	
	Kisan Sarthi	Dr. Ramakrishna Roy, Sr. Scientist and Head Er. Naveen Kumar SMS (Ag. Engg.)	22 <sup>nd</sup> Oct, 2021 (One days)	

	DACP meeting			
	Navchari meeting	Dr. Ramakrishna Roy, Sr. Scientist and Head	5 <sup>th</sup> Nov, 2021 (One days)	
	Virtual	Shri Sanjay Kumar SMS (Ento.)	16 <sup>th</sup> Nov, 2021 (One days)	
	Inauguration of ATARI, Patna building	Dr. Ramakrishna Roy, Sr. Scientist and Head	23 <sup>rd</sup> Nov, 2021 (One days)	
	PM formalization of micro food processing enterprised (PMFME)	Dr. Amit Visen SMS (Horticulture)	23 <sup>rd</sup> Nov, 2021 (One days)	
	Review meeting of CRA	Dr. Ramakrishna Roy, Sr. Scientist and Head	27 <sup>th</sup> Nov, 2021 (One days)	

3.7. Success stories/Case studies, if any (two or three pages write-up on 1-2best case(s) with suitable action photographs)

#### Success Story-1.

Name of farmer	Kunal Kumar Rai
Address	Vill: Baraipatti, P.O.-Baraipatti, P.S. –Yadavpur, Block: Kuchaikote, Gopalganj.
Contact details (Phone, mobile, email Id)	8825177490
Landholding (in ha.)	9.5
Name and description of the farm/ enterprise	Poultry (Layer, 7000 birds), Fisheries (0.2 ha), Cows-2 nos. Tractor- 3 nos., Rotavator-1, Cultivator-1, Straw reaper-1
Economic impact	Intercropping in sugarcane, Vaccination in birds, Balanced feeding, Straw reaper for bhoosa Cereals-Paddy, wheat, Poultry (layer and intercropping in sugarcane earns him Rs. 16 lakhs annually
Social impact	ZT in wheat increases productivity and profitability (reduced diesel consumption) High profits and less technical know-how, risk associated with Poultry (Layer) enterprise and no social taboo have motivated the farmers.
Environmental impact	The Poultry litter increases the productivity of crops, vegetables
Horizontal/ Vertical spread	Many farmers of Tiwarimatihinya, Bharathiya, Bhatwa etc have established/ establishing layer farms



Layer Farm

Layers

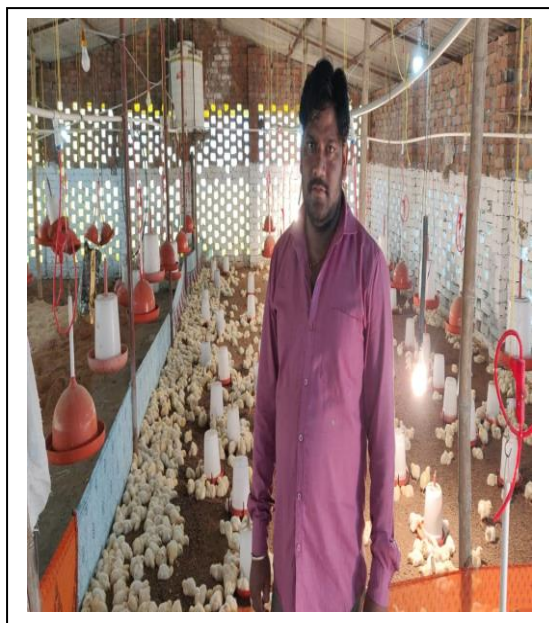


Su



	Vasu	
	Vill:	
	P.S.:	h
	9334	
	2.2	
	Cust	aper-
	3, P	Rice
	mill-	2650
	nos.	cane,
	Hort- Litchi orchard (0.2 ha)	
Economic impact	Custom hiring combined with all crops, livestock provides him an annual income of Rs. 8.5 lakhs	

Social impact	Custom hiring is a new enterprise for unemployed youth
Environmental impact	Reaper harvests the crop residue for utilization as fodder
Horizontal/ Vertical spread	Approx. fifty farmers have purchased power chaff cutter and paddy thresher recently



Broiler Farm



Chaff Cutter



Tractor and Paddy thresher for custom hiring
--

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

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology
1.	Breaking the farmers' perception on Zero tillage (ZT) wheat sowing in Gopalganj, Bihar	Ramakrishna Roy, Naveen Kumar and Sanjay Kumar	Building confidence among farmers by practicing the technology at farm and non availability of inputs to the non adapters

#### Case Study

##### ***Breaking the farmers' perception on Zero tillage (ZT) Wheat Sowing in Gopalganj, Bihar***

Conventional wheat cultivation (broadcasting) practiced in the district entails more fuel cost and delay in wheat sowing which decreases productivity. Enhancing wheat productivity is vital for ensuring food security. Adoption of zero till (ZT) wheat sowing at farmers' field in the district was low due to farmers' perception. They perceived ZT with poor germination and low yield. Frontline demonstrations on wheat sowing through ZT seed cum fertilizer drill was carried out in 168 ha farmers' field under "Climate Resilient Agriculture Programme". Scientists went to the adopted villages, inspected fields and tried to convince farmers for sowing wheat using ZT. To build farmers' confidence proper calibration of the machine for proper seed displacement was method demonstrated to them. Another crucial part in breaking the farmers' perception was by undertaking the entire wheat seed production (6.0 ha) at farm by Happy Seeder which was shown to the farmers. It was a necessary step to convince the farmers that the scientists had firm belief in the technology. Further the constraint created for the farmers was that no seed was provided to them, the tractor with ZT and wheat seed reached the farmers' field and he had to arrive at the field with fertilizer, the scientists were present at the site to monitor the progress. However, some farmers told the adopting farmers that they were taking unnecessary risk; they still had the option of conventional sowing. Later on field days were conducted to show the germination at farm field and ZT sown farmers' field. The farmers observed good germination and better crop stand of ZT sown wheat. Crop yield was better in ZT sown wheat with no hard labour. Better harvest yield (42 q/ha) in ZT sown wheat compared to conventional (32 -34 q/ha) convinced the farmers. They have evinced interest in wheat sowing with ZT. They are also making enquiries about the availability of machine. The convinced farmers are advocating this technology to other farmers during Rabi Kisan melas.



Zero till wheat sown field

3.9. a. 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)

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

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)

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

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed

3.11. a. Details of equipment available in Soiland Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
1	Mridaparikshak	1 nos.

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
10	Nil				Nil

3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1.	Celebration of world soil day	70	5	1.Shri Abhishek Ranjan, DDC, Gopalganj 2.Dr. Ved Narayan Sing, DAO, Gopalganj 3.Dr. Md. Reyaz Ali, TVO, Gopalganj 4.Shri Gautam Kumar, ADE, Gopalganj 5.Shri Vikash Kumar, PD, Gopalganj	10	70

## 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/ FETprogramme - is KVK involved? (Y/N) Yes

No of student trained	No of days stayed
5	3 months (except one)
1. Mukesh Kumar	Regd. No.-VKSCOA/037/2017-18
2. Rajnish Kumar	Regd. No.-MBAC/02/2017-18
3. Goldee Kumari	Regd. No.-MBAC/31/2017-18
4. Pintu Kumar	Regd. No.-2017A090B
5. Jishu Kumari	Regd. No.-1705301035

ARS trainees trained	No of days stayed

## 3.15. List of VIP visitors (Minister/ MP/MLA/DM/VC/ZilaSabhadipati/Other Head of Organization/Foreigners)

Date	Name of the person	Designation	Purpose of visit
19.01.21	Dr. Brajesh Shahi	Nodal Officer, KVKs	-
20.01.21	Shri Vikash Kumar	PD, ATMA, Gopalganj	Farm Visit
15.03.21	Shri Debashish	Development Management	Evaluation and Functioning of ATMA

	Kundu	Institute, Patna-4	
	Prof. Amrita Dhiman		
	Prof. S. Rajeshwaran		
22.09.21	Shri Aditya Narayan Pandey	Hon'ble MLC, Gopalganj	World Water Day
09.06.21	Dr. Ravindra Kumar	Director Research, BASU, Patna	Visit
16.07.21	Shri Harendra Sah	Ex. Zila Parshad	Plantation training
25.08.21	Dr. Rajkumar Jat	Scientist, In-charge, BISA	CRA Project
31.08.21	Dr. Pankaj Kumar	Sr. Scientist, DLFM, ICAR- RCER, Patna	Animal Health Camp
	Dr. Manoj Kumar Tripathi	Scientist, DLFM, ICAR-RCER, Patna	
28.09.21	Shri Sambhunath Tiwari	Superintendent (Retd.) GST & Central Excise	Climate Resilient Agriculture
26.11.21	Shri Shakti Kumar Paswan	Teacher, Middle School, Rupchap	Constitution Day
	Shri Surendra Kumar Rai	Teacher, Middle School, Kala Matihiniya	
05.12.21	Shri Abhishek Ranjan	DDC, Gopalganj	World Soil Day
	Dr. Ved Narayan Singh	DAO, Gopalganj	
	Dr. Md. Reyaz Ali	TVO, Gopalganj	
	Er. Gautam Kumar	ADE, Gopalganj	
	Shri Vikash Kumar	PD, ATMA, Gopalganj	
16.12.21	Shri Sunil Shukla	Chairman Pacs	Natural Farming, Live telecast
	Shri Shashikant Shukla	Ex-Mukhiya, Baliwan Sagar	
27.12.21	Shri Hareram Pandey	Farmers, Buxar	Visit
	Shri Vinod Kumar Singh		

#### 4. 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

(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread

Give information in the same format as in case studies

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

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms

#### 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

Entrepreneurship development	
Name of the enterprise	Mushroom Production
Name & complete address of the entrepreneur	
Role of KVK with quantitative data support:	
Timeline 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. LINKAGES

#### 5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
1. District Agriculture Department	Meetings, trainings, joint implementation, contingent plan, technical support.
2. ATMA, Gopalganj	Meetings, Exposure visits, Trainings
3. District Sugarcane Department	Trainings
4. NABARD Gopalganj	Trainings, exposure visits, FPOs
5. Lead Bank	Trainings, Meeting and farmer schemes



5.	Mushroom Unit	2018	55	Oyster Button					Training and demo
6	Azolla	2018	2.5						Training and Demo
7.	Shed net	2019	200	Seedling prodn,					Training and demo
8.	Polyhouse	2019	200	Seedling Prodn.					Training and demo
	Total								

### 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	
Pea	11 <sup>th</sup> Nov, 2020	19 <sup>th</sup> March, 2021	0.5	HUDP-15	FS	2.50			
Mustard	9 <sup>th</sup> Nov, 2020	3 <sup>rd</sup> March, 2021	2.0	R. Suflam	CS	0.80			
Wheat	23 <sup>rd</sup> –25 <sup>th</sup> Nov, 2020	13 <sup>th</sup> April, 2021	3.0	HD 2967	FS	86.0			
			4.5		CS	101.0			
Moon g	20 <sup>th</sup> March, 2021	Water Logging damaged crop							
Arhar	3 <sup>rd</sup> Sep, 2021								
Paddy	25 <sup>th</sup> June, 2021	2 <sup>nd</sup> Nov, 2021 & 16 <sup>th</sup> Nov, 2021	Result Awaited						

### 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.	Name	Details of production	Amount (Rs.)	Remarks
-----	------	-----------------------	--------------	---------

No	of the animal / bird / aquatics	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 staffquarters:

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	1005231130000070
KVK RF Account	Uttar Bihar Gramin Bank	Sipaya	1005231010005130
KVK NHM Account	Uttar Bihar Gramin Bank	Sipaya	1005231010005207
KVK Non ICAR Account	Uttar Bihar Gramin Bank	Sipaya	1005231130000162

## 7.2. Utilization of funds under CFLD on Oilseed (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on - 31.12.2021
	Kharif	Rabi	Kharif	Rabi	
Rapeseed & Mustard (Committed Liability)		2,59,971.00	-	-	-
Rapeseed & Mustard	Nil	96,000.00	Nil	2,03,962.00	(-)1,07,962.00

## 7.3. Utilization of funds under CFLD on Pulses (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2021
	Kharif	Rabi	Kharif	Rabi	

7.4. Utilization of KVK funds during the year 2021(Not audited) (1<sup>st</sup> April to 31<sup>st</sup> December, 2021)

Sl. No.	Particulars	Sanctioned	Released	Expen.	
<b>A. Recurring Contingencies</b>					
1	Pay & Allowances				
2	Traveling allowances	60,000.00	10,10,020.00	24,815.00	
	HRD	30,000.00		18,199.00	
3	Contingencies				
A	Stationary, telephone, postage, other office charges, POL	5,00,000.00			2,05,171.80
B	Training of farmers, training materials, posters, charts, demonstration materials including chemicals required for conducting the training	2,00,000.00			1,43,802.00
C	Training of Rural Youth				
D	Training of extension functionaries				
E	Frontline Demonstration on other than pulses and oilseed	1,00,000.00			21,707.00
F	On Farm Testing	75,000.00			6,575.00
G	Soil and water testing lab	0.0			0.0
H	Maintenance of building	50,000.00			10,890.00
I	Extension activities/exhibition/kisan mela etc	50,000.00			5,980.00
J	Swachhta Expenditure	0.0			0.0
<b>TOTAL (A)</b>		<b>10,65,000.00</b>	<b>10,10,020.00</b>	<b>4,37,139.80</b>	
<b>B. Non-Recurring Contingencies</b>					
1	Works	0.0	0.0	0.0	
2	Vehicle	0.0	0.0	0.0	
3	Equipment and furniture	0.0	0.0	0.0	
4	Library	0.0	0.0	0.0	
<b>TOTAL (B)</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	
<b>C. REVOLVING FUND</b>					
<b>GRAND TOTAL (A+B+C)</b>					

#### 7.5. 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)
2019	34.21893	13.21398	13.41950	34.01341
2020	34.01341	15.69325	44.12911	5.57755
2021	5.57755	10.87526	7.36601	9.08680 ( upto 31 <sup>st</sup> Dec, 2021)

#### 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  
 (iii) Details of marketing channels created for the SHGs

#### 7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	With both
Mela Site visit (25 <sup>th</sup> Feb, 2021)	1	-			DAO, PD, Sr. Scientist and Head
Crop Damage Status (20 <sup>th</sup> )	1	Kharif	JDA, DAO, Sr. Scientist & Head and		

July, 2021) (District seed multiplication farms, sipaya)			SMSs		
Crop Damage Status (24 <sup>th</sup> August, 2021) (District seed multiplication farms, Kuchaikote & Bhorey)	2	Kharif	ADA, SMS (Horticulture)		
Crop Damage Status (4 <sup>th</sup> Sep, 2021) (District seed multiplication farms, Bhorey)	1	Kharif	ADA, SMS (Horticulture)		
Crop cutting Status (25 <sup>th</sup> & 27 <sup>th</sup> Oct, 2021) at farmers field	2	Kharif	DAO, SAO, Sr. Scientist and Head, SMSs		

## 8. Other information

### 8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)

### 8.2. Prevalent diseases in Livestock/Fishery

Name of the disease	Species affected	Date of outbreak	Number of death/ Morbidity rate (%)	Number of animals vaccinated	Preventive measures taken in pond (in ha)

### 9.1. Nehru YuvaKendra(NYK) Training

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

### 9.2. PPV & FR Sensitization training Programme

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

9.3. *mKisan*Portal (National Farmers' Portal/ SMSPortal)

Type of message	No. of messages	No. of farmers covered
Crop		
Livestock		
Fishery		
Weather		
Marketing		
Awareness		
Training information		
Other		
<b>Total</b>		

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	
2.	No. of farmers registered in the portal	
3.	Mobile Apps developed by <i>KVK</i>	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	

## 9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
6 <sup>th</sup> Oct, 2021 and 16 <sup>th</sup> – 31 <sup>st</sup> Dec, 2021	Swachhata Awareness at local level-103 participants
	Swachhata workshops -46 participants
	Swachhata Pledge- 15 participants
	Cleaning of Office and farm- 15 participants

## b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office		
2. Basic maintenance		
3. Sanitation and SBM		
4. Cleaning and beautification of surrounding areas		
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste		



## 9.10. Details of Swachhta Hi Sewaprogramme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)

## 9.11. Details of MahilaKisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1.	Distribution of seed packets for nutria garden, Awareness on nutritional benefits of millets, Sanitation, Child care	4 villages	38	Nil	

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1	Ajay Kumar Singh	Rampur Madho, Kuchaikote, Gopalganj, 9855283795	Sugarcane, Horticulture (Mango and Litchi)
2	Indrajeet Kumar Singh	Rampur Madho, Kuchaikote, Gopalganj, 9235116687	Sugarcane, Horticulture (Mango)
3	Anil Kumar	Jamuniya Village, Kuchaikote, Gopalganj 9199605970	Sugarcane, Poultry (Broiler)
4	Abhilekh Kumar	Jamuniya Village, Kuchaikote, Gopalganj 9973052638	Sugarcane, Cattle
5	Praveen Dubey	Narayanpur, Kuchikote, Gopalganj 8292178220	Fisheries
6	Ramashankar Sah	Jamuniya Village, Kuchaikote, Gopalganj 9162698915	Sugarcane, Cattle
7	Atul Kumar Kushwaha	Hardiya, Baikunthpur, Gopalganj 8084142300	Vegetables, Spices
8	Govind Kumar	Bakhari, Baikunthpur, Gopalganj 9905797498	Duck, Fisheries
9	Manoj Singh	Gamhari, Baikunthpur, Gopalganj 7850100577	Sugarcane
10	Jhamindra Rai	Sonwaliya, Baikunthpur, Gopalganj 9973402280	Sugarcane, Vegetable
11	Upendra Singh	Buimpurva, Baikunthpur,	Fisheries, Sugarcane

		Gopalganj 9934972462	
12	Sunny Kumar Singh	Gangwa, Sidhwalia, Gopalganj 9525772899	Poultry (Layer)
13	Krishna Singh	Kasar Ghat, Sidhwalia, Gopalganj 9934267196	Sugarcane, Fisheries, Colocasia
14	Jitu Kumar	Bakharaul, Sidhwalia, Gopalganj 7485830465	Fisheries
15	Govind Kumar Patel	Gangwa, Sidhwalia, Gopalganj 7739567942	Fisheries
16	Raju Singh	Gangwa, Sidhwalia, Gopalganj 9931835008	Fisheries
17	Pappu Kumar Singh	Bakharaul, Sidhwalia, Gopalganj 7631251233	Fisheries, Sugarcane, Dairy
18	Baliram Prasad Gupta	Gangwa, Sidhwalia, Gopalganj 8757492054	Fisheries, Dairy, Spices
19	Devendra Kumar Singh	Kasar Ghat, Sidhwalia, Gopalganj 8294263779	Dairy, Colocasia
20	Indra Kumar Kushwaha	Bisunpura, Kuchaikote, Gopalganj 7562962417	Sugarcane
21	Sanjay Kumar Rai	Kandwarai, Manjha, Gopalganj 8368231669	Cereals, Mango, Fisheries
22	Sajal Kumar	Ghosia, Hathua, Gopalganj 9931089552	Spices, Orchard, Cereals
23	Dr. Ali Akbar Rizvi	Deoria, Manjha, Gopalganj 7542990903	Spices, Sugarcane
24	Saroj Singh	Bhimpurva, Baikunthpur, Gopalganj 9973909942	Fisheries, Layer, Broiler
25	Narayan Kumar	Banhauli, Banaura, Baikunthpur, Gopalganj 9431453839	Vermicompost, Guava
26	Magister Prasad	Dighwa Uttar, Baikunthpur, Gopalganj 7250567148	Vegetable
27	Awadhesh Kumar Singh	Narkatiya, Unchkagaon, Gopalganj 9934255300	Sugarcane, Orchard (Litchi, Mango, Dairy)
28	Sudistha Kumar Singh	Sukulwa Khurd, Thawe, Gopalganj 9162681662	Sugarcane, Orchard, Fisheries
29	Ramesh Kumar Kushwaha	Mangru Chapar, Kuchaikote, Gopalganj 9939058731	Broiler, Sugarcane
30	Vinod Kumar Pandey	Karanpura, Kuchaikote, Gopalganj 9973253154	Fisheries, Broiler, Dairy
31	Devtanand Yadav	Pokharbhinda, Kuchaikote, Gopalganj 7277713730	Broiler, Sugarcane, Dairy

32	Neelmani Tiwari	Kalyanpur, Bhorey, Gopalganj 6287545881	Vegetables
33	Santosh Prasad	Bathua, Manjha, Gopalganj 9973906917	Broiler, Vegetables, Goat, Dairy
34	Merajuddin	Bishambharpur, Manjha, Gopalganj 9262540762	Poultry (Layer)
35	Radheram Bhagat	Machagar Jagdish, Hathua, Gopalganj 9661685684	Vegetables seedlings (Cabbage, Cauliflower, Brinjal)
36	Archit Rai	Baraipatti, Gopalganj 7991151707	Sugarcane, Broiler
37	Suresh Rai	Baraipatti, Gopalganj 8292552368	Sugarcane, Broiler
38	Mustak Ahmad	Shyampur, Kuchaikote, Gopalganj 6201139638	Poultry, Layer
39	Umesh Kushwaha	Kuchaikote, Gopalganj 9006039670	Vegetables, Fisheries
40	Pradeep Kumar Rai	Bhuwari Tola, Khwajepur, Gopalganj 9546065912	Dairy, Poultry
41	Vijay Kumar Rai	Baraipatti, Gopalganj 9934711910	Sugarcane, Custom Hiring
42	Sunil Singh	Karanpura, Kuchaikote, Gopalganj 9661025113	Agri Inputs, Dairy, Mushroom
43	Dhruv Rai	Baraipatti, Gopalganj 9934680809	Maize, Oilseed
44	Ranjeet Kumar	Khem Matihiniya, Kuchaikote, Gopalganj 8507565487	Sugarcane, Dairy
45	Ramesh Rai	Shyampur, Kuchaikote, Gopalganj 9097043168	Sugarcane, Dairy
46	Nilmani Tiwari	Tiwari Matihiniya, Kuchaikote, Gopalganj 8292738562	Sugarcane
47	Bishwanath Rai	Galimpur, Kuchaikote, Gopalganj 9934484685	Poultry (Layer)
48	Vinay Kumar Rai	Rampur Madho, Kuchaikote, Gopalganj 9852681920	Sugarcane, Fisheries
49	Santosh Giri	Baliwan Sagar, Kuchaikote, Gopalganj 9661582726	Poultry (Broiler)
50	Arbind Kumar Singh	Karmaini Mohabbat, Kuchaikote, Gopalganj 8092004780	Poultry (Layer)
51	Suneshwar Rai	Galimpur, Kuchaikote, Gopalganj 9006245503	Poultry (Broiler), Fisheries

52	Arun Kumar Rai	Galimpur, Kuchaikote, Gopalganj 7319609746	Poultry (Broiler)
53	Shailendra Kumar Gupta	Sukulwa Khurd, Kuchaikote, Gopalganj 9934648936	Dairy, Vegetables
54	Mirtunjay Shukal	Mishrauli, Kateya, Gopalganj 9771239697	Banana orchard, Vegetables
55	Gupteshwarnath Mishra	Mishrauli, Kateya, Gopalganj 9955285811	Vegetables seedlings
56	Ghanshyam Mishra	Mishrauli, Kateya, Gopalganj 9315091915	Vegetables seedlings
57	Sajjad Hussain	Tiwari Matihiniya, Kuchaikote, Gopalganj 9631582292	Poultry (Layer)
58	Gautam Kumar	Tiwari Matihiniya, Kuchaikote, Gopalganj 9852300894	Poultry (Layer)
59	Md. Naseem	Tiwari Matihiniya, Kuchaikote, Gopalganj 9113720315	Poultry (Layer)
60	Ashok Singh	Daudarampur, Kuchaikote, Gopalganj 8252327960	Poultry (Layer)
61	Satyendra Prasad	Khem Matihiniya, Kuchaikote, Gopalganj 8368154862	Sugarcane, Cereals, Fisheries
62	Sheikh Md. Ayub	Rautiyari, Vijaypur, Gopalganj 950703846	Fisheries (Bio floc)
63	Janmejai Tiwari	Ameya, Kateya, Gopalganj 8292095185	Banana
64	Chhotelal Gupta	Bagipatti Khurd, Kateya, Gopalganj 9565762612	Poultry (Broiler)
65	Upendra Chaubey	Bagipatti Khurd, kateya, Gopalganj 8052633929	Poultry (Broiler)
66	Santosh Kumar	Sahjanwakala, Kateya, Gopalganj 7250098560	Poultry (Broiler)
67	Hemant Yadav	Bakhari, Balua Tola, Kuchaikote, Gopalganj 6299562377	Sugarcane, Fisheries
68	Bhikhan Sahni	Khem Matihiniya, Kuchaikote, Gopalganj 7070217167	Fisheries, Goat
69	Bhola Sah	Khem Matihiniya, Kuchaikote, Gopalganj 9631859587	Fisheries
70	Subhash Kumar Singh	Sukulwa Khurd, Thawe, Gopalganj 9934263303	Fisheries, Sugarcane, Orchard (Mango/Litchi)
71	Parshuram Singh	Bishambharpur, Thawe,	Fisheries

		Gopalganj 9681115226	
72	Ramashray Ojha	Bishambharpur, Thawe, Gopalganj 9007748153	Poultry (Broiler)
73	Ravi Kumar Singh	Bishambharpur, Thawe, Gopalganj 7366989558	Fisheries
74	Kanhaiya Tiwari	Bishambharpur, Thawe, Gopalganj 8294080000	Poultry (Layer)
75	Subhash Tiwari	Tiwari Matihiniya, Kuchaikote, Gopalganj 8084857103	Sugarcane
76	Ramayan Prasad	Shyampur, Kuchaikote, Gopalganj 7091614780	Sugarcane
77	Md. Sahabuddin	Shyampur, Kuchaikote, Gopalganj 9102005730	Sugarcane, Dairy
78	Surjesh Prasad	Shyampur, Kuchaikote, Gopalganj 9939283849	Sugarcane, Dairy, Orchard
79	Mukesh Yadav	Shyampur, Kuchaikote, Gopalganj 8084813098	Sugarcane, Orchard
80	Uendra Yadav	Kala Matihiniya, Kuchaikote, Gopalganj	Sugarcane, Dairy
81	Harinarayan Prasad Patel	Sipaya Khas, Kuchaikote, Gopalganj 9973263215	Sugarcane, Dairy, Orchard
82	Mani Patel	Sipaya Khas, Kuchaikote, Gopalganj 9771174278	Sugarcane, Dairy
83	Dilip Sharma	Khem Matihiniya, Kuchaikote, Gopalganj 9110046729	Sugarcane, Dairy

### 9.13. Revenue generation(April to December-2021)

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Institution Charge	41,271.00	BASU, Patna
2.	Institution Charge	3,000.00	PCRA
3.	Papaya Plant Sale	2,500.00	Farmer
4.	Litchi Plant Sale	1,250.00	KVK, Gopalganj
5.	Litchi Plant Sale	2,750.00	KVK, Gopalganj
6.	Litchi Plant Sale	2,500.00	KVK, Gopalganj
7.	Litchi Plant Sale	1,250.00	KVK, Gopalganj
8.	Litchi Plant Sale	1,250.00	KVK, Gopalganj
9.	Cauliflower seedling Sale	1,350.00	KVK, Gopalganj

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
10.	Seed Packet Sale	3,915.00	KVK, Gopalganj
11.	Institution Charge	3,000.00	ATMA, Gopalganj
12.	Institution Charge	1,000.00	ATMA, Gopalganj
13.	Seed Sale Receipt (Wheat, Gram, Pea)	5,53,737.00	DSF, Dholi
14.	S/C non seed Sale	12,441.00	Vishnu Sugar Mill
15.	S/C non seed Sale	10,865.00	Vishnu Sugar Mill
16.	Bank Interest	6,019.00	UBGB, Sipaya
17.	S/C non seed Sale	10,785.00	Vishnu Sugar Mill
18.	S/C non seed Sale	1,093.00	Vishnu Sugar Mill
19.	S/C non seed Sale	18,745.00	Vishnu Sugar Mill
20.	S/C non seed Sale	16,254.00	Vishnu Sugar Mill
21.	Bank Interest	6,990.00	UBGB, Sipaya
22.	Bank Interest	4,661.00	
23.	Seed Sale Receipt (Paddy)	4,01,665.00	DSF, Dholi
24.	Bank Interest	7,168.00	UBGB, Sipaya
25.	Bank Interest	7,135.00	UBGB, Sipaya
<b>Total</b>		<b>1122594</b>	

#### 9.14. Resource Generation:(April to December-2021)

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1	PCRA	Training and workshop	PCRA	0.15	Nil
2	ATMA	Expert support from KVK	ATMA	0.24	Nil
3	ATMA	Assessment, Refinement, Validation and Adoption of frontline technologies	ATMA	0.75	Nil
4	ATMA	Supporting for district level training institution	ATMA	0.90	Nil

#### 9.15. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning

#### 9.16. 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

## 10. Report on Cereal Systems Initiative for South Asia (CSISA)

- a) Year:  
b) Introduction / General Information:

	Title	Objective	Treatment details	Date of sowing	Replication	Result with photographs
Experiment 1						
Experiment 2						
Experiment 3						
...						
..						
Others (If any)						

## 11. Details of TSP

- a. Achievements of physical output under TSP during 2017-18

Programmes	Physical achievements
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)	
No. of otherprogrammes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	

- b. Fund received under TSP in 2017-18 (Rs. In lakh):  
c. Achievements of physical outcome under TSP during 2017-18

Sl. No.	Description	Unit	Achievements
1	Change in family income	%	
2	Change in family consumption level	%	



## Capacity building

Thematic area	No of Courses	No of beneficiaries								
		SC	ST		Other			Total		
		M	F	M	F	M	F	M	F	T

## Extension activities

Thematic area	No of activities	No of beneficiaries								
		SC	ST		Other			Total		
		M	F	M	F	M	F	M	F	T

Detailed report should be provided in the circulated Performa

## 13. 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
1.	Kisan Abhinav Puraskar	Shri Kunal Kumar Rai	2021	DrRPCAU, Pusa	Rs. 5000.00	

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

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

Sl. No.	Name of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
1.	Pragati Agro Producer Company Limited	Reg. No. U01400BR2016P TC026193	Karanpura, Kuchaikote	Input supply	Fertilizer, Seed	685	14.0	





		(q)	material (lakh)	(kg)	(kg/ No.)	M	F	M	F	M	F	M	F	T	
KKA-I															
KKA-II															

**C. Livestock and Fishery related activities**

Name of program me	No. of Pro gram me	Activities performed				No. of farmers benefited									No. of other officials (except KVK) attended the programme
		No. of anima ls vaccin ated	No. of anima ls dewor med	Feed/ nutrie nt supple ments provid ed (kg)	Any other (Distrib ution of animals / birds/ fingerli ngs) [No.]	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
KKA-I															
KKA-II															

**D. Other activities**

Name of program me	Activities	No. of farmers benefited									No. of other officials (except KVK) attended the programme	
		SC		ST		Others		Total				
		M	F	M	F	M	F	M	F	T		
KKA-I	Soil Health Card Distributed											
	NADEP Pit established											
	Farm implements distributed											
	Others, if any											
KKA-II	Soil Health Card Distributed											
	NADEP Pit established											
	Farm implements distributed											
	Others, if any											

**Krishi Kalyan Abhiyan- III**

No. of villages covered	No. of animal inseminated	No. of farmers benefited									Any other, if any (pl. specify)	
		SC		ST		Others		Total				
		M	F	M	F	M	F	M	F	T		

22. Any other programme organized by KVK, not covered above

Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants

1. Good quality action photographs of overall achievements of KVK during the year (best 10)



Exposure visit to DrRPCAU, Pusa Kisan

Stall at DrRPCAU. Kisan mela



Exposure visit to BISA under CRA

KVK Stall at District Kisan mela, Thawe



Training on Combine harvester for drivers

Practical session on combine harvester for drivers



Training on sanitation and Hygiene



Data recording on feeding “Bal Shakti” feeding



PF Training on Cultivation of oilseed



Plantation materials to farmers under JSA



PF training on “Bamboo Processing”



PCRA training cum workshop



PF training on “Poultry Production”



PF training on “ Farm mechanization”



Live telecast of Food and Nutrition programme



World Food Day Programme



Exhibition of DrRPCAU stall at ISAE convention



Scientist Farmer Interface and Live telecast



Rabi Mahaabhiyan Programme



Seminar on sugarcane cultivation (sugar mill)



Training on Bee Keeping at KVK (ATMA)



Mukhyamantri Ganna Vikas Karyakram at Sugar Mill



Programme on Environment: Citizen face



Farmer Scientist Intraction



Swachhata Campaign at Khem Matihiniya



Saplings distributed on Poshan Vatika and Tree Plantation Programme



Poshan Vatika and Tree Plantation



International Women day



Painting competition on International Women day



Balance Use of fertilizer



World Water Day



Animal Health Camp



Farmer scientist Interaction (ATMA)



Planting Material (JSA)



Tree Plantation



World Soil Day



Paddy wheat seeder DSR (CRA)



Live telecast Zero budget farming



ZT DSR (CRA)



Line sowing DSR (CRA)



ZT DSR (CRA)



Field visit ZT DSR (CRA)



Use of LCC (CRA)



PF training (CRA)



Exposure visit to CRA village

Exposure visit to KVK plot (CRA)

मानव के भोजन में पपीता का महत्व

- इसके फलो में विटामिन A प्रचुर मात्रा में पाया जाता है जो की आम के बाद दुसरे स्थान पर है।
- इसके अतिरिक्त विटामिन C एवं खनिज लवण भी पाए जाते हैं।
- ताजा उपयोग के अतिरिक्त पपीता के फलो से अनेक परिरक्षित पदार्थ बनाये जाते हैं।
- कच्चे फल का उपयोग पेठा, बर्फी, खीर, हलवा एवं रायता बनाने में किया जाता है।
- जबकि पके फलो से जैम, जेली, नेक्टर, टूटी फ्रूटी और कैंडी आदि बनाये जाते हैं।
- पपीता के कच्चे फलो से पेपेन (जो एक प्रकार का एन्जाइम होता है) का उत्पादन किया जाता है। पपीता का औषधीय उपयोग भी किया जा सकता है।

Online training Papaya

Capacity building of KVK personnel

## Additional Information

Number of FPO	Created by KVK	Number of farmer	Created by other agency(NBARD/SFAC supported by KVK)	Number of farmer
3	0	980	Yes	980

Resource generation	Amount (Rs.)	Funding Agency (e.g. NHM/ATMA/RKVY/Manrega etc.)	Type of work

Externally funded project	Amount (Rs.)	Funding Agency	Type of work

Special Programmes (PM Address/ Ag. Scientist Meet/ Consumer day/ PoshanSaptah/ Birthday of Mahatma Gandhi/ Farm Act/ World Food day/ MahilaKisanDiwas)	Venue	No. of MP/ MLA/ Public Representations	No. of Officials	No. of Farmers									
				SC		ST		OBC		Gen		Total	
				M	F	M	F	M	F	M	F	M	F
IIHR National Fair Live telecast (10.02.21)	KVK	0	11	2	0	0	0	0	0	48	0	50	0
International Women Day(08.03.21)	KVK	0	11	0	8	0	0	0	0	27	4	27	12
World Water Day (22.03.21)	KVK	MLC, Gopalganj	11	2	0	0	0	0	0	36	15	38	15
Kisan Samman Nidhi Installment Release	KVK	0	11	0	0	0	0	0	0	14	5	14	5
World Bee Day (20.05.21)	KVK	0	11	0	0	0	0	0	0	12	0	12	0
World Milk Day (01.06.21)	KVK	0	11	4	0	0	0	0	0	92	0	96	0
Balance use of fertilizer (18.06.21)	KVK	0	11	4	1	0	0	0	0	22	3	26	4
ICAR foundation day (16.07.21)	KVK	0	11	5	0	0	0	0	0	50	0	55	0
National Campaign on food and nutrition for farmers (26.08.21)	KVK	0	11	20	6	0	0	0	0	84	15	104	21

Poshan Vatika and tree Plantation (17.09.21)	KVK	PD, ATMA, Gopalganj	11	50	25	0	0	0	0	140	46	190	71
Climate Resilient Agriculture and farmer scientist interface (28.09.21)	KVK	0	11	18	40	0	0	0	0	75	76	93	116
Special Swacchata campaign (06.10.21)	KVK	0	11	10	7	0	0	0	0	48	38	58	45
Mahila Kisan Diwas (15.10.21)	KVK	0		0	5	0	0	0	0	0	33	0	38
World Food Day (16.10.21)	KVK	0		5	0	0	0	0	0	30	0	35	0
Agriculture and Environment: The Citizen Face (26.11.21)	KVK	0		4	10	0	0	0	0	30	71	34	81
Natural Farming (30.11.21)	KVK		11	1	0	0	0	0	0	21	4	22	4
World Soil Day (05.12.21)	KVK	DDC, DAO, PD (ATMA), ADA, ADM, Gopalganj	11	2	0	0	0	0	0	68	0	70	0
Live telecast natural farming (16.12.21)	KVK	0	11	10	4	0	0	0	0	279	18	289	22
Swacchata Pakhwada celebration (16 <sup>th</sup> to 31 <sup>st</sup> Dec, 21)	KVK	0	11	1	0	0	0	0	0	41	4	42	4
Kisan Diwas (23.12.21)	KVK	0	11	2	0	0	0	0	0	22	6	24	6

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