

KRISHI VIGYAN KENDRA, SARAN

**DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL
UNIVERSITY, PUSA**



ANNUAL REPORT

2020

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PROFORMA FOR ANNUAL REPORT 2019 (1st January- 31st December 2020)

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	
KVK Saran, Bihar	9198985483 (M)		head.kvk.manjhi@rpcau.ac.in Website: www.saran.kvk4.in

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 Pusa, Bihar	06274240226 (VC Cell) 06274240251 (DEE)		dee@rpcau.ac.in vc@rpcau.ac.in psvc@rpcau.ac.in nodalkvk@rpcau.ac.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Abhay Kumar Singh		9198985483	head.kvk.manjhi@rpcau.ac.in , kvksaran@yahoo.co.in , kvksaran@gmail.com

1.4. Year of sanction of KVK: F No-18-23/96-AE I 24.03.2006

1.5. Staff Position (as on 31st December 2020)

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. Abhay Kumar Singh	Senior Scientist and Head	Animal Science	135300	16.07.2019	Permanent	Others
2	Subject Matter Specialist	Dr. Surendra Prasad	S.M.S.	Entomology	89800	19.06.2009	Permanent	Others
3	Subject Matter Specialist	Mr. Pankaj Kumar	S.M.S.	Fisheries	59500	09.10.2018	Permanent	SC
4	Subject Matter Specialist	Dr. Saurabh Shankar Patel	S.M.S.	Post-Harvest Technology	59500	12.10.2018	Permanent	Other
5	Subject Matter Specialist	Dr. Jitendra Chandra Chandola	S.M.S.	Horticulture (Pomology)	59500	13.12.2018	Permanent	Other
6	Subject Matter Specialist	Miss.TanujaJukariya	S.M.S.	Home Science	59500	28.12.2018	Permanent	Other
7	Subject Matter Specialist	Dr. KanaihiyaLalRegar	S.M.S.	Soil Science	59500	23.04.2019	Permanent	SC
8	Programme Assistant	Dr. Vijay Kumar	Programme Assistant	Soil Science	38700	28.11.2017	Permanent	OBC
9	Computer Programmer	Mr. Ishita Singh	Programme Assistant	Computer	38700	05.12.2017	Permanent	Other (Deputed to Pusa)
10	Farm Manager	Mr. Rajesh Kumar	Farm manager	B. Sc (Ag)	38700	22.12.2017	Permanent	OBC
11	Accountant / Superintendent	Mr. Amit Anand	Assistant	Chemistry Honors	38700	20.10.2017	Permanent	Others
12	Stenographer	Mr. Mirtunjay Kumar	Stenographer	Graduate (Physics)	26300	22.02.2018	Permanent	Other (Deputedto VC- Cell Pusa)
13	Driver	Mr. LalBabu Prasad	Tractor Driver	-	12721	07.05.2007	Contractual	OBC
14	Driver						Vacant	
15	Supporting staff						Vacant	
16	Supporting staff						Vacant	

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1.	Under Buildings	2
2.	Under Demonstration Units	2
3.	Under Crops	11.9
4.	Orchard/Agro-forestry	4
5.	Others with details	0
	Total	19.90

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					Y	423.25	Y	ICAR
2.	Farmers Hostel					Y	305	Y	ICAR
3.	Staff Quarters (6)					Y	71.12 (PC and FM) 120.32 (Technical-2 unit) 78 (Supporting-2 unit)	Y	ICAR
4.	Piggery unit	N							
5.	Fencing					Y (1700 m only) 1100m left		Y	ICAR
6.	Rain Water harvesting structure	N							
7.	Threshing floor					Y	130	Y	ICAR
8.	Farm godown					Y	78	Y	ICAR
9.	Dairy unit	N							
10.	Poultry unit	N							
11.	Goatary unit	N							
12.	Mushroom Lab					Y		Y	ICAR
13.	Mushroom production unit					Y	30m X 20M	Y	ICAR
14.	Shade house								
15.	Soil test Lab	N							
16.	Seed Hub godown					Y		Y	ICAR
17.	Poly house	Y					200	Y	Bihar govt.
18.	Greenhouse shed net	Y					200	Y	Bihar Govt.
19.	Solar tree with submersible pump						2 nos.	Y	DRPCA U
20.	Azolla unit							Y	
21.	Vermi-compost unit						28	Y	

* 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	27.06.2006 Transferred to KVK Saran on 15.06.2007 from KVK Bhagalpur	450000.00	194422	Needs replacement Not in working condition
Tractor (2 Nos.)	(1) 05.12.2006 (2) 16.02.2019	(1) 475833.00 (2) 612036.84	(1) 4137 (2) 547	(1) Needs Repairing (2) Newly Purchased
Motorcycle (2 Nos)	August 2016	120000.00	(1) 23498 (2) 38470	Good

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Computer CPU, Monitor, LaserJet 1020 printer, Business jet 1000 printer and scan jet	2007-08	54963	Good	ICAR
AC (2 Nos.)	2019-20	77514.00	Good	ICAR
b. Farm machinery				
Pump set (7.5 HP) with all the accessories	2007-08	35285	Good	ICAR
Zero Tillage Machine	2007-08	Supplied by RCT Project of RAU	Needs Repairing	ICAR
Furrow Irrigated Raised Bed Planter	2007-08		Good	ICAR
Knapsack sprayer	2007-08	1190	Good	ICAR
Gatore sprayer	2007-08	3250	Good	ICAR
Pump set (5HP) with all accessories)	2008-09	25000	Needs Repairing	ICAR
Generator	2008-09	31540	Good	ICAR
Thresher	2008-09	99320	Fully need repairing	ICAR
Reaper+Bund Maker	2008-09	85840	Good	ICAR
Sugarcane Cutter Planter	2008-09	99320	Need repairing	ICAR
Rotavator	2008-09	95160	Need repairing	ICAR
Reaper	2008-09	75400	Need repairing	ICAR
Bund Maker	2008-09	10140	Good	ICAR
Bucket leveler	2012-13		Good	ICAR
Zero tillage Machine	Supplied by Government of Bihar			
Paddy Transplanter	Supplied by Government of Bihar			
Mobile Seed Processing Plant	Supplied by Government of Bihar			
Rotary Plough	2012-13			
Multi crop Thresher	2012-13			
Mobile Seed Processing Plant (Seed Hub)	2017-18	1500000	Good	ICAR
Tractor	2019-2020	612036.84	Good	ICAR
c. AV Aids				
Computer CPU, Monitor, printer	2010-11		Good	ICAR

Digital Camera	2008-09	24880	Good	ICAR
Panasonic Tough book	2018-19	21500.00	Good	Dr. RPCAU Pusa
HP Copier	2019-20	65400.00	Good	ICAR
HP Color Printer	2019-20	21998.00	Good	ICAR
Projector	2019-20	76140.00	Good	ICAR
Inverter	2020-21	10,000		
Battery				

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Zero-till-ferti-seed drill-1	2011-2012		Need repairing	ICAR
Connoweeder and Marker 10 each	2011-2012		Good	ICAR
Bund Maker-2	2011-2012		Good	ICAR
Furrow Irrigated Raised Bed Planter-1	2011-2012		Need repairing	ICAR
Furrow Irrigated Raised Bed Planter-1	2011-2012		Need repairing	ICAR
Power sprayer -6	2011-2012		Good	ICAR
Rotavator-1	2011-2012		Good	ICAR
Leveler-2	2011-2012		Good	ICAR
Self propelled Reaper-1	2012-2013		Need repairing	ICAR
Cultivator-1	2012-2013		Good	ICAR
Disc Harrow	2012-2013		Good	ICAR
Zero-till-ferti-seed drill-1	2012-2013		Need repairing	ICAR
Balance	2010-2013		Good	ICAR
Power weeder	2019-2020	21280	Good	ICAR
One-wheel garden trolley	2019-2020	10,000	Good	ICAR
Brush cutter	2019-2020	19,723	Good	ICAR
Cultivator	2020-2021	27,776	Good	ICAR
Zero till seed cum fertilizer drill	2020-2021	43,120	Good	ICAR
Mini daal mill	2020-2021	90,000	Good	ICAR
Rotavator	2020-2021	1,14,918	Good	ICAR
Multicrop thresher	2020-2021	1,28,800	Good	ICAR
Reversible MB plough	2020-2021	1,14,240	Good	ICAR
Potato planter	2020-2021	97,500	Good	ICAR
Power weeder	2020-2021	47,600	Good	ICAR
Multicrop planter	2020-2021	99,799	Good	ICAR
Self-propelled reaper cum binder	2020-2021	5,20,000	Good	ICAR
Potato digger	2020-2021	1,17,500	Good	ICAR
Self-propelled rice transplanter	2020-2021	2,22,800	Good	ICAR

1.8. Details SAC meeting* conducted in the year

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	14.03.2020	27	DEE, DRPCA, instructed about fruit plantation around the existing pond in KVK	Guava and citrus plants has been planted at the mentioned site.	
			There should be farmer resource person among the farmer who is getting training.	We have invited a few farmers as resource person in different training programmes, recently in Skill development (PMKVY) trainings.	

			The machine for controlling of “Blue Bull” be demonstrated at KVK farm	The machine for “Blue Bull has been tested and demonstrated by some of the KVKs, but the result is not satisfactory.	
			DEE, DRPCA, advised for giving information about the boundary wall, which was left during its construction.	We have sent the proposal to DEE, DRPCA to construct the boundary wall, which was left during its construction.	
			It is advised that KVK portal should be updated every day with kvk activities	KVK portal has been updated with all the activities/events on daily basis.	
			It is advised to organize Animal Husbandry training with the co-ordination of block animal husbandry officer	The training programmes, KisanGosthi as well as vaccination campaign for FMD & Brucellosis with co-ordination of Block Animal Husbandry Officer has been done at KVK Premises.	
			It is advised that FLD should not be on only varietal but also associated with some technology or should be on technology demonstration.	The FLD on proven technologies including Biofloc fish culture under fisheries, mulching in vegetables, zero tillage sowing in wheat & Rice, furrow irrigated raise bed etc.	
			The OFT on assessment of different chemicals on management of leaf curl disease in chilli should not be continuing this year.	Not continuing this OFT	
			There should be FLD on vegetables.	We have included FLD on vegetables in our Action plan as instructed.	
			Data should be taken of boat mounted irrigation system and economical compared.	Installed system has been monitored regularly and it is found effective in summer as well as in rainy season.	
			Emphasis should be given to multiply new varieties based on local situation and demand.	Under Seed Hub programme we are multiplying different varieties of pulse seed which has demand and are based on local situation.	
			It is advised that no. of trial should be 7 instead of 10 in each OFT.	From this year most of the OFT has 7 replications instead of 10.	
			In the pest management OFT instead chemical management there should be an IPM module.	Under pest management present OFT was done on IPM Module instead of chemical management.	
			The farmer's members also observed lack of Scientists and proposed to fill the vacant post as early.	All the vacant post of Scientist has been filled.	
			IFS model of ICAR-RCER Patna may be replicated in the KVK farm for demonstration purpose.	Pond based IFS model of 0.40ha is currently running smoothly along with the other components like Horticulture, Animal Unit, Vermicompost, Mushroom, Apiculture etc. at KVK Saran.	
			Training on Zero budget organic farming is initiated at the KVK level in the district.	This year training on Organic farming has been done under Skill development (PMKVY) training programme at KVK	

				Saran, and it will be continued further.	
			It is proposed that the KVK should work on low cost technology	Demonstration on Zero tillage, RCT, Biofertilizer, etc. are being practiced and advocated. Again training and demonstrations are being conducted on low cost diet, low cost water filter and low energy cool chambers. Ornamental fish culture in small tanks at home.	

* 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	Crop Production is the major Farming System of Saran district with majority of farms having Rice-Wheat cropping system followed by Rice-Maize + Potato, Rice-Maize, Rice-Rapeseed-Mustard and Red Gram as sole crop. Summer crops are generally not taken due to social problems of grazing by Blue bulls and also by untied pet animals wandering in search of green fodder. The district is specifically popular for cereals like wheat in the Rabi season (Covering an area of more than 54% of the total cultivable area.) and Paddy in the Kharif season (Covering about 36% of the total cultivable area). Maize occupies the third position after wheat and rice and is more or less equally important in both Kharif and Rabi (about 18% of the total cultivated area in Rabi and about 16% of the total cultivated area in Kharif). Pulses occupy about 4 % of the total cultivated area in Rabi and about 6 % the total cultivated area in the Kharif season, Red Gram being the most popular pulse crop. Likewise, the oilseeds occupy only 4 % of the total cultivated area in Rabi and only 0.2% in the kharif season. Animal Husbandry is coming up as new enterprises in the district followed by fishery and poultry. Since, the farmers has very small land holding, these enterprises are flourishing in a big way and our action plans are being devised from time to time keeping in view of these changes in cropping systems.		
		S. No	Farming system/enterprise	
		1.	Crop Production + Animal Husbandry	
		2.	Crop Production	
		3.	Animal Husbandry	
		4.	Crop Production +Fishery	
		5.	Crop Production +Poultry	
		6.	Crop Production +Vegetable Production	
		7.	Crop Production +Fruit Production	
		8.	Poultry	
2	Agro-climatic Zone	Saran district lies in the Middle-Gangatic Plain with subtropical climate characterized by hot summer, wet monsoon and dry winter. The average annual rainfall is 1140 mm. The Maximum temperature varies from 26 to 35 ⁰ C but during summer months the temperature may go up to 45 ⁰ C or even more with hot westerly winds from March to June. The Minimum temperature varies from 10 to 16 ⁰ C but occasionally it may go below 2-3 ⁰ C. The relative humidity at 7 A.M. varies from 50 to 75 % in summer months which goes up to 97 % or more during monsoon and winter.		
3	Agro ecological	Agro ecological situation		Characteristics
		AES I	Upland	Alluvial saline soils with Poor drainage and undulating

	situation			rain fed saline lands	topography, high pH soils (7.5 to 8.2) with white and fluffy outgrowths			
		AES II		Upland irrigated lands	Alluvial plain lands with Loamy silt soils under irrigated conditions subject to periodical inundation			
		AES III		Upland rain fed lands	Alluvial plain lands with Loamy silt soils subject to periodical inundation			
		AES IV		Irrigated medium lands	Alluvial plain lands with Loamy silt soils or silty loam soils			
		AES V		Low lands	Bowl shaped depressions having heavy clay soils, generally under water logged conditions where there is no source of drainage, Cracks develop when dry due to high sodium content, Deficiency of available Ca, N and Zn			
		AES VI		Diara lands	Light sandy soils with poor water holding capacity, Flooded during monsoons			
4	Soil type	S. No	Land situations	Soil type	Characteristics	Area (ha)	Percent (%) of the total	
		1.	Upland	Alluvial Saline soils	Poor drainage and undulating topography, high pH soils (7.5 to 8.2) with white and fluffy outgrowths, rain fed conditions	67538	33.88	
		2.	Upland	Alluvial soils	Alluvial plain lands with Loamy silt soils or silty loam soils rich in organic carbon and other nutrients under irrigated conditions			
		3.	Medium land	Alluvial soils	Alluvial plain lands with Loamy silt soils or silty loam soils	36630	18.37	
		4.	Low land	Heavy clay soils with sodicity	Cracks develop when dry due to high sodium content, Deficiency of available Ca, N and Zn	65571	32.95	
		5.	Diara land	Light sandy soils	Poor water holding capacity, Poor nutrient holding capacity Flooded during monsoons	29561	14.80	
		Total					199300	100.00
		5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables.	Crops	Kharif		Rabi	
Production (q)	Productivity (q/ha)				Production (q)	Productivity (q/ha)	Production (q)	Productivity (q/ha)
Wheat	-			-	2171785	20.10	2171785	20.10
Paddy	1243057			17.3	-	-	1243057	17.3
Maize	491946			14	711900	22.6	576450	18.3

	fruits and others	Pulses	50512	7	145882.8	12.6	643044	9.8
		Oilseeds	2905	7	59171.2	8.2	113465	7.6
		Vegetables	777000	111	12645	2271042	70717	145.3
		Orchards and trees	38620.9	9.34	38620.9	9.34	3154	9.34
		Sugarcane	-	-	54842	790	54842	790
		Potato	-	-	2854419	287	2854419	287
6	Mean yearly temperature, rainfall, humidity of the district	Month		Temperature °C		Relative Humidity (%)		Rainfall (mm)
				Maximum	Minimum	Maximum	Minimum	
		January 2020		16.50	9.54	97.12	71.64	2.25
		February 2020		24.62	11.32	90.51	44.08	23.25
		March 2020		30.95	18.15	77.08	39.92	18.25
		April 2020		36.12	21.82	73.73	30.75	105.50
		May 2020		37.11	24.96	80.66	62.38	68.50
		June 2020		33.66	25.87	91.45	68.52	316.75
		July 2020		33.53	27.25	87.54	73.22	446.50
		August 2020		34.27	26.85	87.65	69.48	24.00
		September 2020		32.76	25.85	92.23	71.42	176.00
		October 2020		33.14	22.60	96.58	58.16	8.75
		November 2020		30.36	16.24	87.54	37.86	00.00
		December 2020		25.47	10.39	88.69	45.05	0.00
7	Production of major livestock products like milk, egg, meat etc.	Live stock		Number		Live stock		Number
		Plough Animals		158185		Goat		196187
		Cattle		232800		Pigs		11602
		Cross bred		23994		Crossbred		1003
		Indigenous		208806		Hens		47592
		Buffaloes		401625		Desi		38823
		Sheep		10489		Improved		218686
		Cross bred		2571		Ducks		2060
		Indigenous		7918		Turkey and others		312471

Note: Please give recent data only

2.b. Details of operational area / villages (2020)

Sl. No.	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1.	Manjhi	Nandpur	Paddy, wheat, potato, mustard, Red gram, Animal Husbandry	Lack of information on high yielding varieties, Lack knowledge of Product Production Procedure	Productivity enhancement of cereals, pulses and oilseeds
2.	Dariyapur	Darihara	Paddy, wheat, maize, potato, mustard, Lentil, Gram	High dependence on chemical fertilizer and insecticides and pesticides	IPM and INM in cereals, pulses and oilseeds
3.	Manjhi	Sitalpur	Paddy, wheat, maize, potato, mustard, Red	High cost of cultivation and low return, lack of knowledge for safe and easy method of	Resource Conservation Technology for sowing of different crops, IPM in

			gram	insect pest management	cereals, pulses and oilseeds
4.	Nagra	Affaur	Paddy, wheat maize, potato, Red gram, Vegetables	Lack of information on soil testing, Lack of knowledge and non-availability of bio-fertilizers and bio-pesticides, lack of suitable technology for drought condition	Natural Resource management and INM and Climate Resilient Technology
5.	Manjhi	Hansrajpur	Paddy, wheat maize, potato	Lack of information on soil testing, Lack of knowledge and non-availability of bio-fertilizers and bio-pesticides, Wastage of cow dung manures, Pressure on women due to labor deployment	Natural Resource management and INM, Organic Farming, Drudgery reduction in women
6.	Jalalpur	Majhawalia	Paddy, wheat maize, potato	Low productivity of paddy, low productivity and income from maize, Heavy infestation of weed in paddy and other crops	Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds
7.	Jalalpur	Ramnagar	Paddy, wheat maize, potato	Low productivity of paddy, low productivity and income from maize, Heavy infestation of weed in paddy and other crops	Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds
8.	Manjhi	Majhanpura	Paddy, wheat maize, potato	Low productivity of paddy, low productivity and income from maize, Heavy infestation of weed in paddy and other crops	Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds
9.	Manjhi	Dumri	Paddy, wheat maize, potato	Low productivity of paddy, low productivity and income from maize, Heavy infestation of weed in paddy and other crops	Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds
10.	Manjhi	Dharhara	Paddy, wheat maize, potato	Low productivity of paddy, low productivity and income from maize, Heavy infestation of weed in paddy and other crops	Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds
11.	Revilganj	SitabDiara	Paddy, wheat maize, potato, mustard, Red gram	High cost of cultivation and low return, lack of knowledge for safe and easy method of insect pest management	Resource Conservation Technology for sowing of different crops
12.	Ekma	Atarsan	Paddy, wheat, maize, potato, Red gram, Rape seed and Mustard	Low productivity of paddy, low productivity and income from maize, Heavy infestation of weed in paddy and other crops	Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds.

13.	ChapraSadar	NewajiTola	Paddy, wheat, maize, potato, mustard, Lentil, Gram	High dependence on chemical fertilizer and insecticides and pesticides	IPM and INM in cereals, pulses and oilseeds
14.	Dighwara	Gopalpur	Paddy, wheat, maize, potato, mustard, Red gram	High cost of cultivation and low return, lack of knowledge for safe and easy method of insect pest management	Resource Conservation Technology for sowing of different crops, Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds.
15.	ChapraSadar	Dumri/NewajiTola	Paddy, wheat, maize, potato, mustard, Lentil, Gram	High dependence on chemical fertilizer and insecticides and pesticides	IPM and INM in cereals, pulses and oilseeds

2. c. Details of village adoption programme:

Name of the villages adopted by Sr. Scientist & Head and SMS (in year 2020) for its development and action plan

Name of village	Block	Action taken for development
Nandpur	Manjhi	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits
Darhara	Manjhi	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits
Darihara	Dariyapur	NICRA activities, FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub
Sitalpur	Manjhi	FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub
Affaer	Nagra	NICRA activities, FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub
SitabDiara	Revilganj	FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub
Majhawalia	Jalalpur	FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub

Majhanpura	Manjhi	FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub
Atarsan	Ekma	FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub
Fulwaria	Garkha	FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub
Gopalpur	Sonpur	FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub
NewajiTola	ChapraSadar	FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub
Dumri	Manjhi	FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub
Karah	Baniyapur	FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub
Bareja	Manjhi	FLD, OFT, CFLD, Training, Field Days, Awareness Programme on Digitalization, Vigilance, SwachhataAbhiyan, PPV and FR, SMS, Soil Tests, Awareness Programme on PradhanMantriBeemaYojana, Diagnostic Visits, Seed Production under Seed Hub

2.1 Priority thrust areas

S. No	Thrust area
1.	Productivity enhancement of cereals, pulses and oilseeds.
2.	Enhancement of Area, Production and Productivity of Pulses and Oilseeds especially in the chaur lands and Diara lands.
3.	Productivity enhancement of maize in terms of quality and nutritive value.
4.	Promotion of Organic Farming and vermicomposting.
5.	Promotion of horticulture for making the rural youth self-employed.
6.	Women Empowerment for income generation activities
7.	Promotion of Climate Resilient Technology
8.	Creation of Job opportunities for landless labours through skill development

3. TECHNICAL ACHIEVEMENTS

3.A.Summary details of target and achievement of mandatory activities by KVK during the year 2020

OFT												FLD											
No. of technologies tested:												No. of technologies demonstrated:											
Number of OFTs		Number of farmers										Number of FLDs		Number of farmers									
Target	Achieve ment	Target	Achievement									Target	Achieve ment	Targe t	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
15	10	106	1	5	4	2	120	8	125	15	140	19	17	250	4	2	12	2	198	17	214	21	235

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
214	73	2850	261	69	22	8	1090	264	1363	341	1704	400	359	359	250	79	110	35	2398	765	2757	879	3635

Impact of capacity building												Impact of Extension activities											
Number of Participants trained												Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)											
Target	Achievement	Target	SC		ST		Others		Total			Target	Achievement	Target	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					
350						312						0.18						0.33					

Livestock strains and fish fingerlings produced (in lakh)*												Soil, water, plant, manures samples tested (in lakh)											
Target						Achievement						Target						Achievement					
0						0						0.01						0.011					

* 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	3		3	5.71			
Seminar/conference/ symposia papers							
Books							
Bulletins							
News letter							
Popular Articles	4						
Book Chapter							
Extension Pamphlets/ literature							
Technical reports							
Electronic Publication (CD/DVD etc)							
TOTAL	7						

3.1.1 Achievements on technologies assessed and refined

OFT 1 (Agricultural Engineering)

i	Season:	Rabi
ii	Title of the OFT:	Effect of different packaging materials on the shelf life of Button mushroom
iii	Thematic Area:	Value Addition
iv	Problem diagnosed:	Highly perishable, enzymatic browning, high respiration rate, tends to oxidative deterioration
v	Important Cause:	
vi	Production system:	
vii	Micro farming system:	
viii	Technology for Testing:	Packaging materials
ix	Existing Practice:	LDPE films with perforation
x	Hypothesis:	Shelf life will increase
xi	Objective(s):	to study the shelf life of button mushroom under different packaging materials
xii	Treatments:	

	Farmers Practice (FP):	LDPE films with perforation
	Technology option-I (TO-I):	Use of Plastic punnets with PVC film
	Technology option-II (TO-II)	Use of Plastic punnets (HIPS) with PVC film and oxygen scavenger
	Technology option-III (TO-III)	Use of Plastic punnets (PVC) material with PVC film and oxygen scavenger
xiii	Critical Inputs:	LDPE films, HIPS, PVC films, oxygen scavenger, etc
xiv	Unit Size:	
xv	No of Replications:	5
xvi	Unit Cost:	2000
xvii	Total Cost:	10000
xviii	Monitoring Indicator:	Weight, colour, shelf life, sensory
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	SAU, PalamPur

Observation:

Table 1: Colour analysis of Mushroom over a storage period of 10 days

Days/Whiteness Index	FP	T1	T2	T3
0	86.36±0.34	87.41±0.20	86.88±0.44	88.16±0.13
2	73.18±0.56	79.43±0.89	81.46±0.73	79.43±0.47
4	71.33±0.13	76.43±0.54	80.33±0.75	78.33±0.37
6	69.11±0.56	71.11±0.76	79.11±0.53	75.36±0.75
8	68.16±0.18	70.53±0.84	74.16±0.43	73.64±0.14
10	64.18±0.11	67.47±0.38	68.25±0.85	67.74±0.29

Table 2: Weight loss in Mushroom over a period of 10 days

Storage Days/Treatment	FP (g)	T1 (g)	T2 (g)	T3 (g)
0	200±5	200±5	200±5	200±5
2	200±5	200±5	200±5	200±5
4	190±5	196±5	197±5	195±5
6	186±5	195±5	197±5	195±5
8	180±5	193±5	196±5	195±5
10	176±5	183±5	196±5	193±5

Results:

Mushroom packed in plastic punnets (HIPS) containing oxygen scavenger showed better acceptability up to 10 days of refrigerated storage but there is a great cost involved in purchasing of oxygen scavenger. So, considering the cost and feasibility Technology option II showed better results with 8 days of storage

under refrigerated condition.

OFT 2 (Agricultural Engineering)

i	Season:	Rabi
ii	Title of the OFT:	Effect of different pre-treatments of the shelf life of Button mushroom
iii	Thematic Area:	Value Addition
iv	Problem diagnosed:	Highly perishable, enzymatic browning, high respiration rate, tends to oxidative deterioration
v	Important Cause:	
vi	Production system:	
vii	Micro farming system:	
viii	Technology for Testing:	Pretreatments prior to marketing
ix	Existing Practice:	Treating with 0.5% KMS solution
x	Hypothesis:	Shelf life will increase
xi	Objective(s):	
xii	Treatments:	
	Farmers Practice (FP):	Treating with 0.5% KMS solution
	Technology option-I (TO-I):	Treatment with 0.5% KMS+0.5% NaCl
	Technology option-II (TO-II)	Treatment with 0.5% KMS+0.5% NaCl+0.5 % CaCl ₂
xiii	Critical Inputs:	KMS, NaCl, CaCl ₂ , packaging films
xiv	Unit Size:	
xv	No of Replications:	5
xvi	Unit Cost:	2000
xvii	Total Cost:	10000
xviii	Monitoring Indicator:	Weight, colour, shelf life, sensory
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	Warner School of Food and Dairy Technology, SHIATS, Allahabad (UP), India

Table 1: Weight loss in button mushroom over a storage period of 10 days

Storage period (Days)/ Treatment	F.P. (g)	T1 (g)	T2 (g)
0	200±5	200±5	200±5
2	200±5	200±5	200±5
4	190±5	194±5	196±5
6	186±5	191±5	190±5

8	180±5	190±5	190±5
10	176±5	185±5	185±5

Table 2: Colour analysis of button mushroom over a storage period of 10 days

Days/Whiteness Index	FP	T1	T2
0	86.36±0.34	86.36±0.34	86.36±0.34
2	73.18±0.56	75.23±0.84	76.48±0.32
4	71.33±0.13	73.74±0.28	74.82±0.63
6	69.11±0.56	71.43±0.82	72.53±0.25
8	68.16±0.18	70.63±0.35	71.43±0.84
10	64.18±0.11	66.32±0.73	66.53±0.12

Results:

Based on above observation, it is concluded that button mushroom packed with technology option 2 (Treatment with 0.5% KMS+0.5% NaCl+0.5 % CaCl₂) showed better result and the mushroom was acceptable for a period of 8 days without any noticeable deterioration.

OFT 3 (Home Science)

i	Season:	Kharif
ii	Title of the OFT:	Performance Evaluation of Improved Sickles for Female Agriculture Workers for Crop Harvesting
iii	Thematic Area:	Location specific drudgery reduction technologies
iv	Problem diagnosed:	Accumulation of load of work on farm women due to using age old sickle
v	Important Cause:	Traditional sickle lowers down the productivity
vi	Production system:	
vii	Micro farming system:	
viii	Technology for Testing:	Improved sickle
ix	Existing Practice:	harvesting is being done by old sickle
x	Hypothesis:	use of improved sickle will help farm women reducing the drudgery the face to a significant level
xi	Objective(s):	* Reduction in the drudgery faced by the women * increasing efficiency
xii	Treatments:	
	Farmers Practice (FP):	Traditional sickle
	Technology option-I (TO-I):	Improved sickle with wooden handle
	Technology option-II (TO-II):	Improved sickle with plastic handle
	Technology option-III (TO-III)	Improved Vaibhav sickle by CIAE Bhopal
xiii	Critical Inputs:	1
xiv	Unit Size:	0.02 ha
xv	No of Replications:	10
xvi	Unit Cost:	□ 1000
xvii	Total Cost:	□ 10000
xviii	Monitoring Indicator:	Harvesting Efficiency (%), Cost of operations (Rs), Time Consumed (hr/ha)

xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	CCSHAU HISAR CIAE Bhopal
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Results

Table 1: Job Strain Index (JSI) Calculation in Harvesting

Type of Sickle	Intensity of Exertion	Duration of Exertion	Efforts/ Minutes	Speed of Work	Duration Per Day	Hand and Wrist Posture	JSI Score	Remark
T0	3	2	2	1.5	1	1	18	Risk level 4 (hazardous conditions)
T1	1	1	1	1.5	1.5	0.75	1.68	Risk level 1 (safe condition)
T2	1	0.5	1	1.5	1.5	0.75	0.84	Risk level 1 (safe condition)

Table 2: Perceived efficacy of Sickle

Factor assessed	Maximum Attainable score	Attained score			Remark		
		T0	T1	T2	T0	T1	T2
Stress factor	10	5 (50)	7 (70)	7 (70)	Acceptable	Highly acceptable	Highly acceptable
Work output	10	5 (50)	7 (70)	7 (70)			
Tool factor	15	10 (66.66)	12 (80)	13 (86.66)			
Field acceptability	15	10 (66.66)	12 (80)	13 (86.66)			
Over all Acceptability	50	30 (60)	38 (76)	40 (80)			

Results: The data revealed that the framers practice was hazardous to use whereas the perceived efficacy was good for the users. The other two technologies were safe to use and highly accepted by the respondents.

OFT 4 (Home Science)

i	Season:	Rabi
ii	Title of the OFT:	Assessment of protective clothing and accessories for farm works
iii	Thematic Area:	Location specific drudgery reduction technologies
iv	Problem diagnosed:	Farm workers are constantly exposed to multiple hazards in several forms
v	Important Cause:	Ignorance in work related occupational safety
vi	Production system:	
vii	Micro farming system:	
viii	Technology for Testing:	Protective clothing and accessories
ix	Existing Practice:	
x	Hypothesis:	Protective clothing will give relief against environmental health hazard as well as protection against harmful chemicals.
xi	Objective(s):	* reducing health hazard * increasing efficiency
xii	Treatments:	
	Farmers Practice (FP):	No protective clothing
	Technology option-I (TO-I):	Protective clothing developed by AICRP on Home Science, CCSHAU, Hisar
	Technology option-II (TO-II):	Protective clothing developed by GBPUAT, Pantnagar

xiii	Critical Inputs:	1
xiv	Unit Size:	10
xv	No of Replications:	10
xvi	Unit Cost:	□ 3000
xvii	Total Cost:	□ 10,000
xviii	Monitoring Indicator:	Functional features of garments/accessories, Efficacy testing, Adoption feasibility
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	AICRP on Home Science, CCSHAU, Hisar GBPUAT, Pantnagar

Ongoing

OFT 5 (Horticulture)

Sl.No	Particulars	Contents
1	Title of On Farm Trial	Effect of mulching and borax on fruit yield, quality and shelf life of litchi cv. Shahi (<i>Litchi chinensis</i> Sonn) in Saran district of Bihar.
2	Problem Diagnose	Litchi is an important subtropical fruit crop in Saran district of Bihar after mango. Plants needs frequent irrigation during the fruiting period to ensure high yield and quality. But due to lack of soil moisture and deficiency of micro-nutrients, most of the litchi orchards produce poor quality fruits. Litchi fruits are poor in quality, insipid in taste due to less TSS and heavy fruit cracking due to low soil moisture and micronutrient deficiency fetches fewer prices in the market. Therefore, for profitable litchi cultivation, use of mulching and foliar spray of micronutrient in crop is beneficial. Therefore, it is required to use of mulching and foliar spray of micronutrient of plains in the climatic conditions of Saran district of Bihar.
3	Details of Technologies selected for assessment/refinement	
	Farmers Practice:	Mulching and borax are not used by farmers
	Technology 1 :	Black polyethylene sheet (100 micron)
	Technology 2 :	Borax @ 0.2%
	Spray Schedule:	15 days after fruit set and it will be repeated after 15 days.
4	Source of Technology	NRC on litchi, Muzaffarpur
5	Replication	8
6	Production System & Thematic Area	Fruit production, yield and quality improvement
7	Performance of technology with performance indicators	1-Date of flowering 2- Days taken to flowering 3- fruit drop and cracking(%) 4-Fruit yield(kg/plant) 5- TSS (°B), acidity(%) and ascorbic acid(mg/100g) 6- Shelf life (days)

Results

Treatments / Characters	Date of flowering	fruit drop (%)	fruit Cracking (%)	Fruit yield (kg/plant)	TSS (°B)	Acidity (%)	Ascorbic acid (mg/100g)	Shelf life (days)	B: C ratio
Farmers Practice	18 March	83.31	17.50	91.00	17.40	0.87	30.1	3	1:2.96
Technology Option-1	14 March	81.90	15.32	101.00	19.65	0.67	30.3	4	1:3.20
Technology Option-2	12 March	75.55	11.54	109.00	20.20	0.64	33.5	5	1:3.85
CD at 5%	NA	4.35	3.21	11.94	0.81	0.18	NS	0.61	0.40

Conclusions

Based on the Result it can be concluded that technology option 2 (Borax@0.2)) is found to be better as compared to technology option 1 (Black polythene sheet@100 micron)) and farmers practices. The technology option 2 is effective for early date of flowering, TSS, higher fruit yield and reducing fruit drop in litchi cv. *Shahi*

OFT 6 (Horticulture)

Sl. No.	Particulars	Contents
1	Title of On Farm Trial	Effect of different methods of crop regulation in guava for quality fruit production in winter season
2	Problem Diagnose	Guava (<i>Psidiumguajava</i>) is grown in the major areas of district Saran for homestead as well as for selling purpose. But due to non adoption of crop regulation, most of the guava orchards produce fruits in rainy season. Rainy season guava fruits are poor in quality, insipid in taste due to less TSS and heavily infested by fruit fly due which rainy season guava fetches less price in the market. Therefore, for profitable guava cultivation, removal of rainy season crop and promotion of winter season crop is advisable. Therefore, it is required to evaluate and refine the standardized crop regulation techniques of plains in the climatic conditions of Saran, Bihar.
3	Details of Technologies selected for assessment/refinement	
	Farmers Practice:	Urea & NAA are not used by farmers for crop regulation.
	Technology 1 :	Urea @ 10%
	Technology 2 :	TNAA @ 600 ppm
4	Source of Technology	ICAR-AICRP on Subtropical fruits
5	Replication	8
6	Production System & Thematic Area	Fruit production & quality improvement
7	Performance of	1- Yield of rainy and autumn season crop (Kg/ plant)

technology with performance indicators	2- Average fruit weight of rainy and autumn season crop (g) 3- Fruit TSS (⁰ B) in rainy and autumn season crop 4- Infested fruits (%) in rainy and autumn season crop 5- CC, GR, NR, B: C ratio
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Results

Treatments/ Characters	Yield (Kg/plant)		Average fruit weight (g)		Fruit TSS (⁰ B)		Infested fruits (%)		B: C ratio
	Rainy season crop	Winter season crop	Rainy season crop	winter season crop	Rainy season crop		Rainy season crop	Winter season crop	Rainy season crop
Farmers Practice	12.5	2.8	87.5	141.0	10.3	Farmers Practice	2.5	3.6	2.8
Technology Option-1	12.1	2.6	92.5	148.5	10.1	Technology Option-1	3.5	4.8	2.6
Technology Option-2	11.0	2.1	88.4	144.3	10.3	Technology Option-2	4.5	4.1	2.1
CD at 5%	NS	NS	20.59	4.51	NS	CD at 5%	NS	NS	20.59

Conclusions

Based on the Result it can be concluded that technology option II (NAA@600ppm) is found to be better as compared to technology option 1 (Urea@10%) and farmers practice. The technology option 1 is effective for average fruit weight, fruit yield and reducing fruit infestation in guava cv. *Allahabadsafeda*.

OFT 7 (Horticulture)

Sl.No	Particulars	Contents
1	Title of On Farm Trial	Regulation of bearing potential in litchi (<i>Litchi chinensis</i>) through girdling of primary branches in Saran district of Bihar
2	Problem Diagnose	Litchi (<i>Litchi chinensis</i>) is a major fruit crop of district Saran. But the poor quality of flowering, fruiting behavior as well as heavy fruit drop and fruit cracking restricts its cultivation. Girdling of 2mm and 3mm diameter on 50 per cent primary branches should be done during last week of august to second week of september to suppress vegetative growth prior to flowering in litchi. Therefore, it is required to produced more flowering panicle, fruit yield, fruit size, TSS and less fruit drop and fruit cracking in Saran district of Bihar. .
3	Details of Technologies selected for assessment/refinement	Farmers Practice : No Girdling Technology 1 : Circular girdling 2mm on 50% Primary branches during 1 st week of September Technology 2 : Circular girdling 3mm on 50% Primary branches during 1 st week of September
4	Source of Technology	National Research Center on Litchi, Muzaffarpur, Bihar
5	Replication	8
6	Production System & Thematic Area	Agri- Horti System
7	Observations to be recorded	1-Flowring induced(%) 2- Days to flowering after girdling 3- Fruits/panicle

		4- fruit drop and cracking(%) 5-Fruit yield(kg/plant) 6- B: C ratio
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Results to be awaited

OFT 8 (Horticulture)

Sl. No.	Particulars	Contents
1	Title of On Farm Trial	Assessment of proper doses of Paclobutrazol in mitigating irregular bearing in mango
2	Problem Diagnose	Mango is a major fruit crop of district Saran. But the poor quality of flowering, yield and alternate bearing behavior restricts its cultivation. Application of Paclobutrazol @ 4g a.i. and 2g a.i./ metre of canopy diameter should be done during last week of august to second week of september to suppress vegetative growth prior to flowering in Mango. Therefore, it is required to produced more Vegetative shoots , Flush length, Canopy Volume, Flowering shoots, Panicle length, Fruit yield and regular bearing in Saran district of Bihar. .
3	Details of Technologies selected for assessment/refinement	Farmers Practice : No use of Paclobutrazol Technology 1 : Paclobutrazol @ 1.0 g a. i./ m of effective canopy (30-45g) in soil. Technology 2 : Paclobutrazol @ 1.5 g a. i./ m of effective canopy (30-45g) in soil. Note: 1. Recording of flowering behaviour in previous year. 2. Balanced nutrition after harvest of crop is prerequisite.
4	Source of Technology	GBPUAT., Pantnagar
5	Replication	8
6	Production System & Thematic Area	Agri- Horti System
7	Observations to be recorded	1-Vegetative shoots (%) 2- Flush length (cm) 3- Canopy Volume (m ³) 4- Flowering shoots (%) 5- Panicle length 6-Fruit yield(kg/plant) 7- B: C ratio

Results to be awaited

OFT 9 (Fisheries)

I	Season:	
Ii	Title of the OFT:	Assessment of growth and mortality of different types of carp fish seed in fresh water fish culture system in Saran district of Bihar
Iii	Thematic Area:	Composite Fish Culture
iv	Problem diagnosed:	1. Non-Availability of good quality fish seed. 2. Stocking of fish seed in stocking pond from unknown sources and irrespective of their sizes, is very common practice in the district results in declined growth and production.

v	Important Cause:	
vi	Production system:	Carp Fish Production
vii	Micro farming system:	
viii	Technology for Testing:	Growth and mortality of different carp fish seeds.
ix	Existing Practice:	Stocking of Fish Fry @15000/ha
x	Hypothesis:	Minimized mortality with higher production
xi	Objective(s):	To test the growth and mortality of different types of carp fish seed.
xii	Treatments:	
	Farmers Practice (FP):	Stocking of Fish Fry @15000/ha
	Technology option-I (TO-I):	Stocking of fingerling @8000/ha
	Technology option-II (TO-II):	Stocking of yearling @4000/ha
	Critical Inputs:	Yearling of IMC fish.
xiii	Unit Size:	0.05 ha (Pond Size approx.)
xiv	No of Replications:	8
xv	Unit Cost:	2000
xvi	Total cost:	16000
xvii	Monitoring Indicator:	i. Weight gain, ii. Mortality percentage, iii. CC, GR, NR, B:C ratio
xviii	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	

Problem definition: Non-availability of yearling or good quality of fish fingerling results in less fish production, as a result Fish Farmers are bound to stock fry at higher densities or inferior quality of fish fingerling.

Technology Option 1: Farmers Practice: Stocking of Fry @15000/ha

Technology Option 2: Stocking of fingerling @8000/ha

Technology Option 3: Stocking of yearling @4000/ha

Sl. No.	Treatment	Fish production (kg/ha)	Cost (Rs/ha)	Gross Return (Rs./ha)	B:C ratio	Mortality %
1.	TO ₁ (Farmer's practice)	2918.375	240000	408572.5	1.702385	32.125

2.	TO ₂	3814.125	220000	533977.5	2.373233	22.125
3.	TO ₃	4319.375	195000	604712.5	3.10109	11.75

Interpretation: - According to the Technology option 3 stocking of yearling at lower stocking density yielded more fish production, than the stocking of fry or yearling even at higher densities. The B:C ratio was also found to be highest in technology option 3 i.e., 3.10. Most importantly mortality percentage was also found comparatively least in technology option 3. So, it has been concluded that practice of stocking yearling yields more production and it is more beneficial for the fish farmer than other culture practices.

OFT 10 (Fisheries)

i	Season:	
ii	Title of the OFT:	Assessment of different chemotherapeutics used for controlling “Argulosis” disease in fresh water fish culture system in Saran district of Bihar.
iii	Thematic Area:	Fish Disease Management
iv	Problem diagnosed:	Regular occurrence of a fish disease i.e., Argulosis
v	Important Cause:	
vi	Production system:	Carp Fish Production
vii	Micro farming system:	
viii	Technology for Testing:	Efficiency of different chemotherapeutics against Argulosis, a fish disease.
ix	Existing Practice:	Use of lime @ 100 Kg/acre/mtr
x	Hypothesis:	Parasite Argulus will be sensitive against Cypermethrin.
xi	Objective(s):	To test the efficacy of different chemotherapeutics against Argulosis disease.
xii	Treatments:	
	Farmers Practice (FP):	Use of lime @ 100 Kg/acre/mtr
	Technology option-I (TO-I):	Cypermethrin @ 100 mL/acre/mtr
	Technology option-II (TO-II):	Potassium Permanganate @ 5mg/L
xiii	Critical Inputs:	I. Cypermethrin ii. Potassium Permanganate
xiv	Unit Size:	0.10 ha (Pond Size approx.)
xv	No of Replications:	8
xvi	Unit Cost:	400
xvii	Total cost:	3200
xviii	Monitoring Indicator:	i. Number of disease incidences ii. Weight gain in 6 month iii. B:C ratio
xix	Source of Technology (ICAR/	

AICRP/ SAU/
Other, please
specify):

Thematic area: Fish Production & Disease Management

Problem definition: Regular occurrence of one of the most common fish ectoparasitic disease i.e., Argulosis has huge impact on fish production by reducing growth and mortality. Disease prevalence needs proper diagnosis and treatment to control this.

Technology Option 1: Farmers Practice: Use of lime @ 100 Kg/acre/mtr

Technology Option 2: Use of Cypermethrin @ 100 mL/acre/mtr

Technology Option 3: Use of Potassium Permanganate @ 5mg/L

Sl. No.	Treatment	Disease Recovery %	Fish production (kg/ha)	Cost (Rs/ha)	Gross Return (Rs./ha)	B:C ratio	Mortality %
1.	TO1 (Farmer's practice)	42.235	2674.254	240000	374360.0	1.5598	42
2.	TO2	85.667	3253.624	240000	455420.0	1.8975	10
3.	TO3	68.548	2985.815	240000	417900.0	1.7412	21

Interpretation: -Argulosis, a crustacean parasitic disease. Fishes infected with this when treated with Cypermethrin as per technology option 2, recovery rate was found quite higher (85 %) in comparison to the other two treatments viz. application of lime & potassium permanganate (42 % & 68 % respectively). Mortality rate was also found to be least in technology option 2 and the B:C ratio was found comparatively better than technology option 1 & 3. So as per the observations it can be concluded that application of Cypermethrin is more effective against Argulosis infection.

OFT 11 (Plant Protection)

i	Season:	Rabi, 2019-20
ii	Title of the OFT:	Assessment of pod borer management of chickpea in Saran District (Bihar)
iii	Thematic Area:	IPM
iv	Problem diagnosed:	Chickpea is the most widely grown pulse crop of Saran district but the productivity of chickpea is quite low due to pod borer infestation. The infested fields are sprayed by huge amount of chemical pesticides. So, this pest has developed to high resistance. Ultimately pest population is high and crop yield very low.
v	Important Cause:	Low productivity
vi	Production system:	Enhancement in the productivity of pulses through IPM tools
vii	Micro farming	

	system:	
viii	Technology for Testing:	Management of gram pod bore through IPM tools for increasing productivity
ix	Existing Practice:	In discernment use of insecticides.
x	Hypothesis:	Use of Pheromone traps and Neonicotinoids group pesticides (spinosad) may reduce the gram pod borer infestation at a very low economic without any environmental hazard.
xi	Objective(s):	To Assessment of IPM tools against gram pod borer
xii	Treatments:	
	Farmers Practice (FP):	Spray of quinalphos @ 2 ml/l water at time of pod formation
	Technology option-I (TO-I):	Two spray of Profenophos 50% EC @ 1.5 ml/liter of water, First at 50% of flower formation and second spray at 50% pod formation
	Technology option-II (TO-II):	Use of Pheromone trap @ 20/ha at flowering time and spray of spinosad 45 SC @ 0.3 ml/liter at time of 50% of pod formation
xiii	Critical Inputs:	Profenophos 50% EC , Pheromone trap and spinosad 45 SC
xiv	Unit Size:	0.05 ha
xv	No of Replications:	8
xvi	Unit Cost:	1250
xvii	Total cost:	10000
xvii i	Monitoring Indicator:	No. of infected pod/plant/sq m , Per cent infestation, Total weight of grain/sq m, Total grain yield/ha, CC, GR, NR, B:C Ratio
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	BHU, Varanasi

Observation :

Table : Incidence of *Helicoverpa armigera* on chickpea crop during rabi 2019-20

Treatments	No. of infected pod/sq m	Pod infestation (%)	Weight of 1000 grain (g)	Yield (q/ha)
Farmers practice Spray of quinalphos @ 2 ml/l water at the time of pod formation	183.50	9.38 (17.83)	108.46	8.95
Technology- I First spray of Profenophos 50% EC @ 1.5 ml/liter of water at 50% flowering and second spray at 50% pod formation	72.87	3.33 (10.51)	109.75	10.53
Technology –II Use of Pheromone trap @ 20/ha at flowering time and second spray of spinosad 45 SC @ 0.3 ml/liter at time of 50% of pod formation	47.12	2.01 (8.16)	110.83	12.82
SEm±	12.61	1.49	2.96	0.90
CD 5%	27.04	3.20	NS	1.92

Figures in parenthesis are the Arc sine $\sqrt{\text{percentage}}$

Table 2: Economic viability of different technology option in chickpea crop during rabi 2019-20

Treatments	Gross return (₹ /ha)	Cost of cultivation (₹ /ha)	Net return (₹ /ha)	Benefit Cost ratio
Farmers practice Spray of quinalphos @ 2 ml/l water at the time of pod formation	37590	18859	18731	1.99
Technology- I First spray of Profenophos 50% EC @ 1.5 ml/liter of water at 50% flowering and second spray at 50% pod formation	44226	21368	22858	2.07
Technology –II Use of Pheromone trap @ 20/ha at flowering time and second spray of spinosad 45 SC @ 0.3 ml/liter at time of 50% of pod formation	53844	21546	32298	2.49

Not : The sale price of grain was considered as Rs. 4200 per quintal

OFT 12 (Plant Protection)

i	Season:	Summer 2020
ii	Title of the OFT:	Assessment of inset-pest management of mango leaf hopper in Saran District (Bihar)
iii	Thematic Area:	IPM
iv	Problem diagnosed:	Mango fruit cultivation is a most popular fruit in Saran District of Bihar. But, last five years productivity is very low due to high infestation of mango leaf hopper during flowering time (February to April). Large number of nymphs and adult insects puncture and suck the sap of tender parts of flower. Heavy puncturing and continuous draining of the sap causes curling and drying of the infested part. Farmers are indiscriminate use of pesticides then pest has developed to high resistance. Ultimately, fruits production is very low.
v	Important Cause:	Low productivity
vi	Production system:	Enhancement in the productivity of fruit
vii	Micro farming system:	
viii	Technology for Testing:	Effective of new molecules chemical against mango leaf hopper.
ix	Existing Practice:	In discernment use of insecticides against this pest.
x	Hypothesis:	An Imidacloprid and acephate insecticide has best effective against sucking pest. So, it will be good performance against mango leaf hopper.
xi	Objective(s):	To assessment of imidacloprid and acephate against mango leaf hopper.
xii	Treatments:	
	Farmers Practice (FP):	Spray of dimethoate 30EC @ 1 ml/liter of water

	Technology option-I (TO-I):	Two Spray of acephate 75% SP(1.5 g per liter of water) should be done, first at early stages of panicle formation and second spray should be carried out after fruit set
	Technology option-II (TO-II):	Two Spray of imidacloprid 17.8 SL (0.3 ml per liter of water) should be done at early stages of panicle formation and second spray should be carried out after fruit set.
xiii	Critical Inputs:	Imidacloprid 17.8 SL and acephate 75% SP.
xiv	Unit Size:	0.01 ha
xv	No of Replications:	8
xvi	Unit Cost:	800
xvii	Total cost:	6400
xvii i	Monitoring Indicator:	Pre-treatment and after treatment (population count), Total yield/plant, CC, GR, NR, B:C Ratio
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	ICAR, SAU

Observation:

Table: Incidence of mango leaf hopper pests in different technology conducted on mango crop during 2019

Treatments	Pre treatment population (Average of 5 panicle/plant)	population (Average of 5 panicle/plant) after 3 days		Yield/plant (kg)
		1 st spray	2 nd spray	
Farmers practice : Spray of dimethoate 30EC @ 1 ml/liter of water	30.28 (5.55)	5.45 (2.44)	2.10 (1.61)	76.12
Technology option I: Two Spray of acephate 75% SP(1.5 g per liter of water) should be done, first at early stages of panicle formation and second spray should be carried out after fruit set	28.65 (5.40)	3.40 (1.97)	1.40 (1.38)	114.24
Technology option II: Two Spray of imidacloprid 17.8 SL (0.3 ml per liter of water) should be done at early stages of panicle formation and second spray should be carried out after fruit set	29.13 (5.44)	2.48 (1.72)	0.90 (1.18)	132.47
SEm±	3.07	0.72	0.25	15.30
CD at 5%	NS	1.52	0.53	32.82

Figures in parenthesis are $\sqrt{X} + 0.5$, Experiment conducted on 12 year old mango tree

Table :Economic viability of different technology conducted on mango crop during 2020

Treatments	Gross return (□ tree)	Cost of cultivation(□ tree)	Net return (□ tree)	Benefit Cost ratio
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Farmers practice : Spray of dimethoate 30EC @ 1 ml/liter of water	3044.70	950	2094.70	2.20
Technology option I: Two Spray of acephate 75% SP(1.5 g per liter of water) should be done, first at early stages of panicle formation and second spray should be carried out after fruit set	4569.55	1050	3519.55	3.35
Technology option II: Two Spray of imidacloprid 17.8 SL (0.3 ml per liter of water) should be done at early stages of panicle formation and second spray should be carried out after fruit set	5298.60	1080	4218.60	3.91

Not : The average sale price of fruit was considered as Rs. 40/kg

Results :The results revealed that the technology II consisting of two spraywith imidacloprid 17.8 SL @ 0.3 ml/l of water first at panicle emergence and second spray when fruits set at pea size were found to be most effective in reducing the hopper population and highest yield was found in this technology.

OFT 13 (Soil science)

Sl.No.	Particulars	Contents
1	Title	Effect of boron application on yield of mustard
2	Problem diagnose	Boron deficiency is one of the major constraints to crop production. Its deficiency has been realized as the second most important micronutrient constraint in crops after zinc.
3	Details of Technologies selected for assessment/refinement	
	Farmer's Practice (FP):	NPK (80:35: 0 kg ha ⁻¹)
	Technology option I (TO-I)	RDF (N:P:K:: 60:40:40 kg ha ⁻¹) + Boron @ 1.50 kg ha ⁻¹ (B Source: Borax)
	Technology option II (TO-II) :	RDF (N:P:K:: 60:40:40 kg ha ⁻¹) + Boron @ 1.0 kg ha ⁻¹ + 0.25 % Borax as foliar spray at 45 DAS
4	Source of technology	BHU, Varanasi & Directorate of Rapeseed - Mustard Research, Bharatpur
5	Replication	7
6	Production System & Thematic area	Micronutrient deficiency in crops
7	Critical input	Seed, NPK fertilizer and Borax
8	Performance of Technology with performance indicator	1. No. of siliquae plant ⁻¹ 2. Length of siliqua (cm) 3. Yield (q ha ⁻¹) 4. pH, EC, OC, Available N, P, K and B 5. B: C ratio
9	Process of farmers participation and their reaction	1. Field visit 2. Face to face conversation

Ongoing OFT

OFT 14 (Soil science)

Title	Response of zinc application on yield and Zn uptake by rice
Problem diagnose	In zinc deficient area, zinc is a major constraint for getting optimum yield of rice. In view of zinc deficiency, it is necessary to encourage the farmers to use the zinc fertilizer.
Details of Technologies selected for assessment/refinement	Farmer's Practice (FP) : NPK (130:40:20 kg ha ⁻¹)
	Technology option I (TO- I) : RDF (N:P:K ::120:60:40 kg ha ⁻¹) + Zn @ 5.0 kg ha ⁻¹ (Zn Source: zinc sulphate)
	Technology option II (TO- II): RDF (N:P:K ::120:60:40 kg ha ⁻¹) + <u>0.5 % ZnSO₄ as foliar spray at 25 DAT</u>
Source of technology	Dr. RPCAU, Pusa, Samastipur & BAU, Ranchi, Jharkhand
Replication	7
Production System & Thematic area	Micronutrient deficiency in crops
Critical input	Seed, NPK fertilizer and zinc sulphate
Performance of Technology with performance indicator	1. Number of tiller m⁻² 2. No. of panicles hill⁻¹ 3. Yield (q ha⁻¹) 4. Zn uptake 5. <u>pH, EC, OC, Available N, P, K and Zn</u> 6. B: C ratio
Process of farmers participation and their reaction	1. Field visit 2. Face to face conversation.

Result:**Table 1: Influence of Technological options on yield and yield attributes of rice**

Technological options	Number of tiller m ⁻²	No. of panicles hill ⁻¹	Grain Yield (q ha ⁻¹)
FP	350.33	11.67	35.1
TO- I	425.00	15.00	43.3
TO- II	399.67	13.00	40.2

Table 2: Influence of Technological options on soil available nutrients in rice

Technological options	pH	EC (dS m ⁻¹)	OC (%)	Avail. N (kg ha ⁻¹)	Avail. P (kg ha ⁻¹)	Avail. K (kg ha ⁻¹)	Avail. Zn (mg kg ⁻¹)
FP	8.39	0.35	0.38	216.7	11.9	136.2	0.50

TO- I	8.10	0.41	0.42	241.6	14.3	151.5	0.62
TO- II	8.28	0.40	0.40	231.5	14.2	147.8	0.53
Initial soil test value	8.44	0.32	0.37	214.2	11.5	129.0	0.48

Table 3: Influence of Technological options on economics of rice cultivation

Technological options	Cost of cultivation (Rs ha ⁻¹)	Gross return (Rs ha ⁻¹)	Net return (Rs ha ⁻¹)	B: C Ratio
FP	42260	67690	25430	1.60
TO- I	46060	83670	37610	1.81
TO- II	44660	77680	33020	1.74

Conclusion: Results indicated that application of Zn @ 5.0 kg ha⁻¹ along with RDF (N:P:K ::120:60:40 kg ha⁻¹) gave higher yield, yield attributes and also showed higher soil available nutrient status, net return and BC ratio over 0.5 % ZnSO₄ as foliar spray at 25 DAT along with RDF and Farmer's Practice (FP).



View of different technology options under On Farm Trial (OFT)

OFT 15 (Animal Science)

Particulars	Contents
Title	Supplementation effect of Bypass- fat fortified with Chromium on production performances of lactating dairy animals.
Problem diagnosed	Generally, the ration of high yielding dairy animals during the early lactation is energy deficient which results in marked reduction of body weight affecting milk synthesis mechanism. There is a significant loss of the producers on account of low milk production and longer inter-calving period.
Micro farming situation	Most of the farmers unable to feed balanced ration to their cross-bred dairy animals after parturition which tends to have negative energy balance causing Ketosis and other metabolic diseases. This needs to be addressed by supplementing exogenous source of energy rich diet in the form of By-pass fat leading to more milk synthesis after being digested in abomasums and small intestine and thereby maintain the persistency of lactation.
Details of technology identified for solution	T1: control (devoid of By-pass fat) T2: By-pass fat supplementation @ 150g/day/ lactating animal
No. of farmers	10
Replications	02 animals /farmer
Critical inputs	Commercial product of By-pass fat
Production system	Dairy production
Source of technology	ICAR-NDRI, NDDB
Total Cost	15000
Observation to be recorded	Milk yield data i) 2 weeks of pre-trial period II) 6 weeks of trial period and iii) 2 weeks of post trial period. Economics of milk production

On-going

3.1.2 Technology Assessed by KVK (Discipline wise)

Sl. No.	Discipline	Thematic areas	No. of the technologies (Technology Interventions)	No. of trials	No. of Locations
1.	Crop Production	IPM	2	16	5
2.	Livestock	Feed management	1	20	5
3.	Enterprises				
4.	Women Empowerment	Kitchen gardening & Poshanvatika	2	10	10

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/demonstration										Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total				
						M	F	M	F	M	F	M	F	T		
1	Paddy (R. Bhagwati)	Productivity enhancement	Full Package with spray of Propiconazole 25EC @ 1g/liter of water for control of	8	8	3	2	0	0	15	0	18	2	20		

			different fungal disease													
2	Paddy (Sahbhagi)	Productivity enhancement through short duration variety	Full Package for varietal trial	8	8	4	3	0	0	12	1	16	4	20		
3	Paddy (R. bhagwati) Pheromon trap)	Productivity enhancement through IPM	Full Package with pheromone trap use for control of yellow stem borer in paddy	1	1	0	0	0	0	2	0	2	0	2		
4	Paddy (Bhagwati) NICRA	Productivity enhancement	Full Package	8	8	4	0	0	0	12	4	16	4	20		
5	Paddy (Prabhat) NICRA DSR	Productivity enhancement	Full Package	0	4	1	0	0	0	9	0	10	0	10		
6	Paddy (Sahbhagi) NICRA DSR	Productivity enhancement	Full Package	0	4	0	0	0	0	11	0	11	0	11		
7	Wheat	RCT	HD-2967	5	5	3	0	0	0	11	0	14	0	14		
8	Wheat (NICRA)	RCT	DBW 107	10	10	7	0	0	0	18	0	25	0	25		
9	Maize		Shaktimaan-5	10	5	16	0	0	0	34	0	50	0	50		
10	Milk	Strip based adulteration kit	Strip based adulteration kit	10	10	1	0	1	0	8	0	10	0	10		
11	Azolla		Feed suppliments	10	10	1	0	1	0	8	0	10	0	10		
12	Quail farming		Poultry production	05	05	1	0	1	0	3	0	5	0	5		Process initiated
13	Fodder production		Bersem, oats	05	05	1	0	0	0	4	0	5	0	5		
14	Feed supplement		Mineral mixture	20	20	2	1	2	0	15	0	19	1	20		
15	Deworming		Control of endo-parasites infestation in Bovine and Caprine	100	100	5	2	6	2	75	10	86	14	100		

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration								Reasons for shortfall in achievement	
				Proposed	Actual	SC		ST		Other s		Total			
1.						M	F	M	F	M	F	M	F	T	
2.															
3.															
4.															
5.															

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				(Kg/ha)							
				N	P ₂ O ₅	K ₂ O					

Wheat (HD-2967)	Rabi-2019-20	Irrigated	Medium land sandy loam soils	-	-	-	Paddy	21.11.2019	03.04.2020		
Wheat (DBW 107) NICRA	Rabi-2019-20	Irrigated	Medium land sandy loam soils	-	-	-	Maize	24.11.2019	23.03.2020		
Rapeseed and Mustard (R. Sufalum) NICRA	Rabi-2019-20	Irrigated	Medium land sandy loam soils	-	-	-	Maize	29.10.2019	22.02.2020		
Paddy (R. Bhagwati)	Kharif-2020	Irrigated	Medium land sandy loam soils	220	14	77	Wheat	09.07.2020	20.10.2020	972.0	
Paddy (Sahbhagi)	Kharif-2020	Irrigated	Medium land sandy loam soils	210	13	78	Wheat	12.07.2020	01.11.2020	972.0	
Paddy (R. bhagwati) Pheromon trap)	Kharif-2020	Irrigated	Medium land sandy loam soils	207	12	69	Vegetable	03.07.2020	30.10.2020	972.0	
Paddy (Bhagwati) NICRA	Kharif-2020	Irrigated	Medium land sandy loam soils	220	23	99	Sesame	01.07.2020	15.10.2020	972.0	
Paddy (Prabhat) NICRA DSR	Kharif-2020	Irrigated	Medium land sandy loam soils	212	14	82	Green Gram	27.06.2020	17.10.2020	972.0	
Paddy (Sahbhagi) NICRA DSR	Kharif-2020	Irrigated	Medium land sandy loam soils	212	23	96	Green Gram	30.06.2020	30.10.2020	972.0	
Wheat HD-2967	Rabi - 2020-21	Irrigated	Medium land sandy loam soils	212	9.1	60	Paddy	20.11.2020	Standing	0	
Wheat (DBW 107) NICRA	Rabi - 2020-21	Irrigated	Medium land sandy loam soils	210	13	78	Paddy	23.11.2020	Standing	0	
Maize (NICRA)	Kharif-2020	Irrigated	Medium land sandy loam soils	207	12	69	Wheat	23.07.2020	30.10.2020	972.0	

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

B. 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	INM	Seed, S, Zn, B and Bio-fertilizer	20	8	20.40	12.15	67.90	23223	64942	41719	2.80	19140	35340	16200	1.84
Total			20	8											

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

** BCR= GROSS RETURN/GROSS COST

Pulses

Frontline demonstration on pulse crops

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

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

** BCR= GROSS RETURN/GROSS COST

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*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
Wheat (HD-2967)	Crop Production	Full package	15	6	46.28	32.35	43.06			27320	45750	18430	1.67	30027	41250	11223	1.37
Wheat (DBW 107) NICRA	Crop Production	RCT	20	8	38.43	29.84	28.78			27320	44400	17080	1.62	30027	41250	11223	1.37

Paddy (R. Bhagwati)	Productivity enhancement	Full Package with spray of Propiconazole 25EC @ 1g/liter of water for control of different fungal disease	10	4	38.54	31.24	23.36			30527	65930	35403	2.16	29238	52050	22812	1.78
Paddy (Sabbhagi)	Productivity enhancement through short duration variety	Full Package for varietal trial	8	3	36.34	31.24	16.32			30527	65930	35403	2.16	29238	52050	22812	1.78
Paddy (R. bhagwati) Pherom on trap)	Productivity enhancement through IPM	Full Package with pheromone trap use for control of yellow stem borer in paddy	2	1	36	30	20.00			31822	62460	30638	1.96	31474	52050	20576	1.65
Paddy (Bhagwati) NICRA	Productivity enhancement	Full Package	18	8	39	30	30.00			31822	67665	35843	2.13	31167	52050	20883	1.67
Paddy (Prabhat) NICRA DSR	Productivity enhancement	Full Package	10	4	30	24	25.00			29064	52050	22986	1.79	21095	41640	20545	1.97
Paddy (Sabbhagi) NICRA DSR	Productivity enhancement	Full Package	7	4	32	24	33.33			31500	55520	24020	1.76	30235	41640	11405	1.38
Maize	Climate Resilient variety	Saktiman-5	50	5	72	61	18.03			33345	72000	38655	2.16	29500	61000	31500	2.07
Total			140	43													

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	**BCR	Gross Cost	Gross Return	Net Return	**BCR
Dairy																	
Cow																	
Buffalo																	
Poultry																	
Rabbitry																	
Pigerry																	

Sheep and goat																	
Duckery																	
Others (Pl. specify)																	
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

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	
Ornamental fishes																	
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

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
Oyster mushroom	Enterprise development															
Button 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

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of Farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demo	Local check	% change	GrossCost	GrossReturn	NetReturn	BCR
Cereals										
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (Pl.specify)										
Total Cereals										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl.specify)										
Total Oilseeds										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (Pl.specify)										
Total Pulses										
Vegetable crops										
Bottle gourd										

Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (Pl.specify)										
Total Veg. Crops										
Commercial Crops										
Cotton										
Coconut										
Others (Pl.specify)										
Total Commercial Crops										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl.specify)										
Total Fodder Crops										

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training				
3.	Media coverage				
4.	Training for extension functionaries				

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif and Rabi:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				Distri ct yield (D)	Stat e yield (S)	Potenti al yield (P)				Ma x.	Mi n.	Av .	D	S	P
1	Pigeonpea	Local					R. Arhar full package	Crop is standing							
2	Rapeseed and mustard	Local					R. Suflam full package								
3	Linseed	Local					Sabour tisi								

							& Subra full package	
4	Sunflower	Local						
5	Chickpea	Local					RVG-203 full package	
6	Lentil	Local					IPL-316 full package	
7	Sesame						Yet to be initiated	Yet to be initiated
8	Sunflower (summer)						Yet to be initiated	
9.	Black gram						Yet to be initiated	

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

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)

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback

F. Extension activities under CFLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmers attended
1.	Training on new technology in Pigeon pea cultivation	14/07/2020 and Baldiya	20
2.	Training on scientific cultivation of Mustard	05/11/2020 and KVK campus	40
3.	Training on new technology in Mustard	09/11/2020 and Pahadpur	32
4.	Training on new technology in Mustard	09/11/2020 and Mirpurjawara	15
5.	Training on scientific cultivation of Chickpea	28/11/2020 and Sitabdiyara	15
6.	Training on new technologies in Chickpea (RVG-203)	29/11/2020 and Majhawaliya	15
7.	Training on new technologies in Chickpea (RVG-203)	29/11/2020 and Rampur Noorpur	15
8.	Training on scientific cultivation of Chickpea and Lentil	29/11/2020 and Baldiya	18
9.	Training on scientific cultivation of Linseed	05/12/2020 and KVK campus	16
10.	Training on scientific cultivation of Chickpea, Lentil and Linseed	09/12/2020 and Gopalpur	17
11.	Training on scientific cultivation of Linseed Lentil Chickpea and Sunflower	10/12/2020 and Ashoknagar	19
12.	Training on scientific cultivation of Linseed and Sunflower	17/12/2020 and Haizalpur	17

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

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input			
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total			

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

A) Farmers and farm women (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Fodder production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, (cultivation of crops)	0	0	0	0	0	0	0	0	0	0	0	0	0
II. Horticulture													
a) Vegetable Crops													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Integrated nutrient management	0	0	0	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Skill development	0	0	0	0	0	0	0	0	0	0	0	0	0
Yield increment	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any (Cultivation of Vegetable)	0	0	0	0	0	0	0	0	0	0	0	0	0
Training and Pruning	0	0	0	0	0	0	0	0	0	0	0	0	0
b) Fruits													
Layout and Management of Orchards	1	12	0	12	6	0	6	0	0	0	18	0	18
Cultivation of Fruit	1	13	0	13	4	0	4	0	0	0	17	0	17
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	1	16	0	16	0	0	0	0	0	0	16	0	16
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants													
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
d) Plantation crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
e) Tuber crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
f) Spices													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants													
Nursery management	1	17	0	17	2	0	2	1	0	1	20	0	20
Production and management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Post-harvest technology and	0	0	0	0	0	0	0	0	0	0	0	0	0

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
value addition													
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
III. Soil Health and Fertility Management													
Soil fertility management	1	13	0	13	5	0	5	0	0	0	18	0	18
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	1	13	0	13	4	0	4	0	0	0	17	0	17
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of Problematic soils	1	17	3	20	4	0	4	0	0	0	21	3	24
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
IV. Livestock Production and Management													
Dairy Management*	3	39	0	39	12	0	12	0	0	0	51	0	51
Poultry Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Disease Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Feed management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any Goat farming	0	0	0	0	0	0	0	0	0	0	0	0	0
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	1	12	6	18	8	0	8	0	0	0	20	6	26
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and child care	1	0	13	13	0	9	9	0	0	0	0	22	22
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming	0	0	0	0	0	0	0	0	0	0	0	0	0

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
practices													
Production of small tools and implements	1	18	0	18	8	0	8	0	0	0	26	0	26
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	1	13	0	13	4	0	4	0	0	0	17	0	17
Post-Harvest Technology	1	16	0	16	5	0	5	0	0	0	21	0	21
Others, if any													
VII. Plant Protection													
Integrated Pest Management	1	21	0	21	1	0	1	0	0	0	22	0	22
Integrated Disease Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-control of pests and diseases	1	16	0	16	8	0	8	0	0	0	24	0	24
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
VIII. Fisheries						0							
Integrated fish farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management*	1	16	0	16	8	0	8	0	0	0	24	0	24
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Composite fish culture & fish disease	1	15	0	15	3	0	3	0	0	0	18	0	18
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	0	0	0	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
IX. Production of Inputs at site						0							
Seed Production	0	0	0	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
X. Capacity Building and Group Dynamics													
Leadership development	0	0	0	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0	0	0	0	0	0	0	0	0
Production technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
XII. Others (Pl. Specify)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	19	267	22	289	82	9	91	1	0	1	350	31	381

B) Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production*	3	57	0	57	9	0	9	0	0	0	66	0	66
Bee-keeping	1	10	19	29	3	5	8	0	0	0	13	24	37
Integrated farming	2	38	0	38	10	0	10	0	0	0	48	0	48
Seed production*	1	17	0	17	4	0	4	0	0	0	21	0	21
Production of organic inputs*	3	51	9	60	12	0	12	0	0	0	63	9	72
Integrated Farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	1	13	0	13	5	0	5	0	0	0	18	0	18
Commercial fruit production	1	16	0	16	5	0	5	0	0	0	21	0	21
Repair and maintenance of farm machinery and implements	1	24	0	24	6	0	6	0	0	0	30	0	30
Nursery Management of Horticulture crops*	2	45	0	45	10	0	10	0	0	0	55	0	55
Training and pruning of orchards	1	23	0	23	2	1	3	0	0	0	25	1	26
Value addition*	5	30	81	111	6	26	32	0	0	0	36	107	143
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0	0	0	0

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
Composite fish culture	3	48	4	52	16	0	16	0	0	0	64	4	68
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing*	3	58	6	64	14	0	14	1	0	1	73	6	79
Small scale processing*	2	27	10	37	8	4	12	0	0	0	35	14	49
Post-Harvest Technology	1	18	6	24	4	0	4	0	0	0	22	6	28
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	1	0	24	24	0	2	2	0	4	4	0	30	30
TOTAL	31	475	159	634	114	38	152	1	4	5	590	201	791

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	1	12	10	22	4	4	8	0	0	0	16	14	30
Integrated Pest Management	1	21	0	21	6	0	6	0	0	0	27	0	27
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	1	10	19	29	3	5	8	0	0	0	13	24	37
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	1	13	0	13	5	0	5	0	0	0	18	0	18
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	1	19	0	19	5	0	5	0	0	0	24	0	24
Gender mainstreaming through SHGs	1	16	0	16	0	0	0	0	0	0	16	0	16
TOTAL	6	91	29	120	23	9	32	0	0	0	114	38	152

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
I. Crop Production													
Weed Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0	0	0	0

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
Integrated Farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Fodder production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, (cultivation of crops)	0	0	0	0	0	0	0	0	0	0	0	0	0
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	0	0	0	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Skill development	0	0	0	0	0	0	0	0	0	0	0	0	0
Yield increment	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery raising	1	17	0	17	2	0	2	1	0	1	20	0	20
Export potential vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any (Cultivation of Vegetable)	0	0	0	0	0	0	0	0	0	0	0	0	0
Training and Pruning	0	0	0	0	0	0	0	0	0	0	0	0	0
b) Fruits													
Layout and Management of Orchards	1	12	0	12	6	0	6	0	0	0	18	0	18
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any(INM)	0	0	0	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants													
Nursery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
d) Plantation crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
e) Tuber crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
f) Spices													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants													
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Post-harvest technology and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
III. Soil Health and Fertility Management													
Soil fertility management	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	1	13	0	13	5	0	5	0	0	0	18	0	18
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any													
IV. Livestock Production and Management													
Dairy Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Poultry Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Disease Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Feed management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any Goat farming	0	0	0	0	0	0	0	0	0	0	0	0	0
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	1	0	17	17	0	7	7	0	0	0	0	24	24
Design and development of low/minimum cost diet	1	0	14	14	0	4	4	0	0	0	0	18	18
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems	1	17	0	17	8	0	8	0	0	0	25	0	25
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0	0	0	0

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
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Post-Harvest Technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
VII. Plant Protection													
Integrated Pest Management	1	15	0	15	3	0	3	0	0	0	18	0	18
Integrated Disease Management	1	19	0	19	3	0	3	0	0	0	22	0	22
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
VIII. Fisheries													
Integrated fish farming	1	19	0	19	3	0	3	0	0	0	22	0	22
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	1	16	4	20	2	1	3	0	0	0	18	5	23
Composite fish culture & fish disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	0	0	0	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
IX. Production of Inputs at site													
Seed Production	0	0	0	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
X. Capacity Building and Group Dynamics													
Leadership development	0	0	0	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0	0	0	0

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
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0	0	0	0	0	0	0	0	0
Production technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
XII. Others (Pl. Specify)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	10	128	35	163	32	12	44	1	0	1	161	47	208

E)RURAL YOUTH (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	5	93	15	108	12	4	16	0	0	0	105	19	124
Bee-keeping	1	19	4	23	2	1	3	0	0	0	21	5	26
Integrated farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	1	16	0	16	6	0	6	0	0	0	22	0	22
Commercial fruit production	0	0	0	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Post-Harvest Technology	0	0	0	0	0	0	0	0	0	0	0	0	0

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
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	7	128	19	147	20	5	25	0	0	0	148	24	172

F) Extension Personnel (Off Campus)

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

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
I. Crop Production													
Weed Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0	0	0	0

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
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Fodder production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, (cultivation of crops)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	0	0	0	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Skill development	0	0	0	0	0	0	0	0	0	0	0	0	0
Yield increment	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery raising	1	17	0	17	2	0	2	1	0	1	20	0	20
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any (Cultivation of Vegetable)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	17	0	17	2	0	2	1	0	1	20	0	20
b) Fruits													
Training and Pruning	0	0	0	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	2	24	0	24	12	0	12	0	0	0	36	0	36
Cultivation of Fruit	1	13	0	13	4	0	4	0	0	0	17	0	17
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	1	16	0	16	0	0	0	0	0	0	16	0	16
Others, if any(INM)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	53	0	53	16	0	16	0	0	0	69	0	69
c) Ornamental Plants													
Nursery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
d) Plantation crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
e) Tuber crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0

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
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
f) Spices													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants													
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and management technology	1	17	0	17	2	0	2	1	0	1	20	0	20
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	17	0	17	2	0	2	1	0	1	20	0	20
III. Soil Health and Fertility Management													
Soil fertility management	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	1	13	0	13	5	0	5	0	0	0	18	0	18
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	1	13	0	13	4	0	4	0	0	0	17	0	17
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	1	17	3	20	4	0	4	0	0	0	21	3	24
Nutrient Use Efficiency	1	13	0	13	5	0	5	0	0	0	18	0	18
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	56	3	59	18	0	18	0	0	0	74	3	77
IV. Livestock Production and Management													
Dairy Management	3	39	0	39	12	0	12	0	0	0	51	0	51
Poultry Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Disease Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Feed management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any (Goat farming)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	39	0	39	12	0	12	0	0	0	51	0	51
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	1	0	17	17	0	7	7	0	0	0	0	24	24
Design and development of low/minimum cost diet	1	0	14	14	0	4	4	0	0	0	0	18	18
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	1	12	6	18	8	0	8	0	0	0	20	6	26
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0	0	0	0

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
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and child care	1	0	13	13	0	9	9	0	0	0	0	22	22
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	12	50	62	8	20	28	0	0	0	20	70	90
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems	1	17	0	17	8	0	8	0	0	0	25	0	25
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	1	18	0	18	8	0	8	0	0	0	26	0	26
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	1	13	0	13	4	0	4	0	0	0	17	0	17
Post-Harvest Technology	1	16	0	16	5	0	5	0	0	0	21	0	21
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	64	0	64	25	0	25	0	0	0	89	0	89
VII. Plant Protection													
Integrated Pest Management	2	36	0	36	4	0	4	0	0	0	40	0	40
Integrated Disease Management	1	19	0	19	3	0	3	0	0	0	22	0	22
Bio-control of pests and diseases	1	16	0	16	8	0	8	0	0	0	24	0	24
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	71	0	71	15	0	15	0	0	0	86	0	86
VIII. Fisheries													
Integrated fish farming	1	19	0	19	3	0	3	0	0	0	22	0	22
Carp breeding and hatchery management	1	16	0	16	8	0	8	0	0	0	24	0	24
Carp fry and fingerling rearing	1	16	4	20	2	1	3	0	0	0	18	5	23
Composite fish culture & fish disease	1	15	0	15	3	0	3	0	0	0	18	0	18
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	0	0	0	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	1	19	0	19	3	0	3	0	0	0	22	0	22
TOTAL	4	66	4	70	16	1	17	0	0	0	82	5	87
IX. Production of Inputs at site													
Seed Production	0	0	0	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0	0	0	0

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
Organic manures production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
X. Capacity Building and Group Dynamics													
Leadership development	0	0	0	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
XI Agro-forestry													
Production technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
XII. Others (Pl. specify)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	29	395	57	452	114	21	135	2	0	2	511	78	589

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	8	150	15	165	21	4	25	0	0	0	171	19	190
Bee-keeping	2	29	23	52	5	6	11	0	0	0	34	29	63
Integrated farming	2	38	0	38	10	0	10	0	0	0	48	0	48
Seed production	1	17	0	17	4	0	4	0	0	0	21	0	21
Production of organic inputs	3	51	9	60	12	0	12	0	0	0	63	9	72
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	2	29	0	29	11	0	11	0	0	0	40	0	40
Repair and maintenance of farm machinery and implements	1	16	0	16	5	0	5	0	0	0	21	0	21
Nursery Management of Horticulture crops	1	24	0	24	6	0	6	0	0	0	30	0	30

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Training and pruning of orchards	2	45	0	45	10	0	10	0	0	0	55	0	55
Value addition	1	23	0	23	2	1	3	0	0	0	25	1	26
Production of quality animal products	5	30	81	111	6	26	32	0	0	0	36	107	143
Dairying	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	3	48	4	52	16	0	16	0	0	0	64	4	68
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Post-Harvest Technology	3	58	6	64	14	0	14	1	0	1	73	6	79
Tailoring and Stitching	2	27	10	37	8	4	12	0	0	0	35	14	49
Rural Crafts	1	18	6	24	4	0	4	0	0	0	22	6	28
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Others if any (ICT application in agriculture)	1	0	24	24	0	2	2	0	4	4	0	30	30
TOTAL	38	603	178	781	134	43	177	1	4	5	738	225	963

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	1	12	10	22	4	4	8	0	0	0	16	14	30
Integrated Nutrient management	1	21	0	21	6	0	6	0	0	0	27	0	27
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	1	10	19	29	3	5	8	0	0	0	13	24	37

Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	1	13	0	13	5	0	5	0	0	0	18	0	18
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	1	19	0	19	5	0	5	0	0	0	24	0	24
Gender mainstreaming through SHGs	1	16	0	16	0	0	0	0	0	0	16	0	16
Crop intensification	0	0	0	0	0	0	0	0	0	0	0	0	0
Others if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	91	29	120	23	9	32	0	0	0	114	38	152

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 Campuses)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agriengg	Practicing Farmer	Micro irrigation system in horticulture crops	1	OFF	25	0	25	8	0	8
Agriengg	Practicing Farmer	Small scale processing of mango	1	On	21	0	21	5	0	5
Agriengg	Practicing Farmer	Storage structure of rice	1	On	17	0	17	4	0	4
Agriengg	Practicing Farmer	Use of advance tool in agriculture	1	On	26	0	26	8	0	8
Agriengg	Rural Youth	Zero energy cool chamber	1	On	15	10	25	4	4	8
Agriengg	Rural Youth	Processing of daal	1	On	29	0	29	7	0	7
Agriengg	Rural Youth	Care and maintenance of farm machinery	1	On	30	0	30	6	0	6
Agriengg	Extension functionaries	Care and maintenance of farm machinery	3	On	18	0	18	5	0	5

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
Agriengg	Rural Youth	Small scale processing of potato	1	On	22	6	28	4	0	4
Agriengg	Rural Youth	Value addition of amla	1	On	21	0	21	5	0	5
Agriengg	Rural Youth	Use of advance tool in agriculture	1	On	20	4	24	4	0	4
Animal Science	Practicing Farmer	Poultry management	3	On	51	0	51	12	0	12
Fisheries	Practicing Farmer	Rearing of carp fish	1	OFF	18	5	23	2	1	3
Fisheries	Practicing Farmer	Integrated fish farming	1	OFF	22	0	22	3	0	3
Fisheries	Practicing Farmer	Hatchery operations	1	On	24	0	24	8	0	8
Fisheries	Practicing Farmer	Ornamental fish culture system	1	On	18	0	18	3	0	3
Fisheries	Rural Youth	Fish disease management	2	On	44	0	44	12	0	12
Fisheries	Rural Youth	Carp fry and fingerling rearing	1	On	33	0	33	5	0	5
Fisheries	Extension functionaries	Fish disease management	1	On	16	0	16	0	0	0
Fisheries	Rural Youth	Biofloc fish culture	1	On	18	0	18	6	0	6
Fisheries	Rural Youth	Aquaculture management in winter season	1	On	20	4	24	4	0	4
Fisheries	Rural Youth	Nursery and fingerling pond management	1	On	22	6	28	4	0	4
Home science	Practicing Farmer	Development of low-cost diet	1	OFF	0	18	18	0	4	4
Home science	Practicing Farmer	Kitchen gardening	1	OFF	0	24	24	0	7	7
Home science	Rural Youth	Production of oyster mushroom	4	OFF	84	16	100	8	4	12
Home science	Practicing Farmer	value added products of mango	1	On	20	6	26	8	0	8
Home science	Practicing Farmer	Iodine deficiency and its treatment	1	On	0	22	22	0	9	9
Home science	Rural Youth	Value added products of guava	1	On	0	33	33	0	7	7
Home science	Rural Youth	Small scale processing of tomato	1	On	0	30	30	0	9	9
Home science	Extension functionaries	Advancement in mushroom production	3	On	16	14	30	4	4	8
Home science	Rural Youth	Layout and establishment of kitchen garden	1	On	0	30	30	0	10	10
Home science	Rural Youth	Value added products of mushroom	1	On	0	30	30	0	5	5

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
Home science	Rural Youth	Value added products of potato	1	On	21	4	25	2	1	3
Horticulture	Practicing Farmer	Nursery management in horticulture crops	1	OFF	20	0	20	3	0	2
Horticulture	Practicing Farmer	Layout and management of mango orchards	1	OFF	18	0	18	6	0	6
Horticulture	Rural Youth	Propagation techniques of ornamental plants	1	OFF	22	0	22	6	0	6
Horticulture	Rural Youth	Scientific cultivation of fruits	1	On	17	0	17	4	0	4
Horticulture	Rural Youth	Plant propagation of lichi	1	On	16	0	16	0	0	0
Horticulture	Rural Youth	Scientific cultivation of papaya	1	On	21	0	21	5	0	5
Horticulture	Rural Youth	Layout and Management of Orchards	1	On	18	0	18	5	0	5
Horticulture	Extension functionaries	Protected cultivation of tomato	2	On	13	24	37	3	5	8
Horticulture	Rural Youth	Frost management in young papaya plants	1	On	25	0	25	5	0	5
Horticulture	Rural Youth	Organic cultivation of capicum	1	On	25	1	26	2	1	3
Horticulture	Rural Youth	Nursery management of vegetable crops	1	On	30	0	30	5	0	5
Plant protection	Practicing Farmer	Insect pest management in paddy	1	OFF	18	0	18	3	0	3
Plant protection	Practicing Farmer	IPM in paddy	1	OFF	22	0	22	3	0	3
Plant protection	Rural Youth	Bee keeping	1	OFF	21	5	26	2	1	3
Plant protection	Rural Youth	Oyster mushroom production	1	OFF	21	3	24	4	0	4
Plant protection	Practicing Farmer	Management of khaira disease in paddy	1	On	22	0	22	1	0	1
Plant protection	Practicing Farmer	Insect pest management in rabi crop	1	On	24	0	24	8	0	8
Plant protection	Rural Youth	IPM in pulses	1	On	13	24	37	3	5	8
Plant protection	Extension functionaries	IPM in oilseed	1	On	27	0	27	6	0	6
Plant protection	Rural Youth	IPM in fruit crop	1	On	66	1	67	9	0	9
Soil science	Practicing Farmer	Micro nutrient deficiency in paddy	1	OFF	18	0	18	5	0	5
Soil science	Practicing Farmer	Diagnosis of nutrient deficiency and their management	1	On	18	2	20	5	0	5
Soil science	Practicing Farmer	Application of organic and inorganic fertilizer on cereal crops	1	On	17	3	20	4	0	4

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campuses)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Soil science	Practicing Farmer	Management of saline soil	1	On	24	3	27	4	0	4
Soil science	Rural Youth	Production and use of waste decomposer	2	On	63	9	72	12	0	12
Soil science	Extension functionaries	Production and use of use of waste decomposurevermicompost, azola	1	On	24	0	24	5	0	5
Soil science	Rural Youth	Nutrient use efficiency of macro and micro nutrients	1	On	48	4	52	10	0	10
Soil science	Rural Youth	Application of fertilizer based on soil test	1	On	21	0	21	4	0	4
TOTAL			73		1	341	1704	273	77	349

H) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self-employed after training			Number of persons employed elsewhere
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
PMKVY	Skill Development	Mushroom Growers	200 hrs	15	5	20	Mushroom production	NA	NA	
PMKVY	Skill Development	Organic Growers	200 hrs	20	0	20	Organic vegetable	NA	NA	

*training title should specify the major technology /skill transferred

I) Sponsored Training Programmes

17) Sponsored Training Programmes																	
S. I.	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants										Sponsoring Agency
					PF/RV /EF		Male			Female			Total				
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1	Layout and Planting of Different Fruit Orchard Through Scientific Method	Fruit Production	Jul-20	3	RY	1	30	4	1							0	ICAR
2	Integrated Fish Farming	Inland Fisheries	Aug-20	3	RY	1	21	3	4	5	1	1	26	4	5	35	ICAR
3	Goat Farming	Goatary	Aug-20	3	RY	1	33	1	1	0	0	0	33	1	1	35	ICAR

4	Preservation and Value Addition of Fruits and Vegetables	Processing & Value Addition	Aug-20	3	RY	1	28	3	4	0	0	0	28	3	4	35	ICAR
5	Aquaculture Management	Inland Fisheries	Aug-20	3	RY	1	31	2	2	0	0	0	31	2	2	35	ICAR
6	Vermicompost Production Technique	Vermicomposting	Aug-20	3	RY	1	34	1	0	0	0	0	34	1	0	35	ICAR
7	Planning and Layout of Nutritional Kitchen Garden	Nutri-Garden	Aug-20	3	RY	1	19	3	1	9	3	0	28	6	1	35	ICAR
8	Nursery Raising and Management of Vegetable Crops	Vegetable Production	Aug-20	3	RY	1	26	5	4	0	0	0	26	5	4	35	ICAR
9	Soil Sampling and Testing	Skilling in Soil Testing	Aug-20	3	RY	1	30	3	2	0	0	0	30	3	2	35	ICAR
10	Fish Seed Production & Hatchery Management	Inland Fisheries	Aug-20	3	RY	1	22	4	5	3	1	0	25	5	5	35	ICAR
11	Scientific Cultivation of Rabi and Kharif Season vegetable	Vegetable Production	Aug-20	3	RY	1	31	2	2	0	0	0	31	2	2	35	ICAR
12	Poultry Farming	Poultry	Sep-20	3	RY	1	33	1	1	0	0	0	33	1	1	35	ICAR
13	Herbal gull making	Processing & Value Addition	Sep-20	3	RY	1	0	0	0	26	5	4	26	5	4	35	ICAR
14	Care and maintenance of Agriculture Equipment	Care and maintenance	Sep-20	3	RY	1	31	3	1	0	0	0	31	3	1	35	ICAR
15	Mushroom Production	Mushroom Production	Sep-20	3	RY	1	16	3	1	11	3	1	27	6	2	35	ICAR
16	Mushroom Production	Mushroom Production	Oct-20	3	RY	1	28	6	1	0	0	0	28	6	1	35	ICAR

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	23	3	26	19.45	0	0	0	23	3	26
KisanMela	1	85	8	93	16.19	8	1	9	93	9	101
KisanGhoshi	0	0	0	0	0	0	0	0	0	0	0
Exhibition	0	0	0	0	0	0	0	0	0	0	0
Film Show	0	0	0	0	0	0	0	0	0	0	0
Method Demonstrations	0	0	0	0	0	0	0	0	0	0	0
Farmers Seminar	0	0	0	0	0	0	0	0	0	0	0
Workshop	0	0	0	0	0	0	0	0	0	0	0
Group meetings	0	0	0	0	0	0	0	0	0	0	0
Lectures delivered as resource persons	0	0	0	0	0	0	0	0	0	0	0
Advisory Services	0	0	0	0	0	0	0	0	0	0	0
Scientific visit to farmers field	82	385	52	437	11.44	0	0	0	385	52	437
Farmers visit to KVK	160	1752	459	2211	13.56	0	0	0	1752	459	2211
Diagnostic visits	82	385	52	437	11.44	0	0	0	385	52	437
Exposure visits	0	0	0	0	0	0	0	0	0	0	0
Ex-trainees Sammelan	0	0	0	0	0	0	0	0	0	0	0
Soil health Camp	0	0	0	0	0	0	0	0	0	0	0
Animal Health Camp	0	0	0	0	0	0	0	0	0	0	0
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	0	0	0	0	0	0	0	0	0	0	0
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	0	0	0	0	0	0	0	0	0	0	0
MahilaMandals Conveners meetings	0	0	0	0	0	0	0	0	0	0	0
Special Programmes (specify)											
PoshanMaah	9	0	220	220	11.65	3	0	3	0	223	223
Swatchta Hi Sewa	22	110	80	190	12.74	9	1	10	119	81	200
Any Other (Specify)	0	0	0	0	0	0	0	0	0	0	0
Total	359	2740	874	3614	96.47	20	2	22	2757	879	3635

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	25
Radio talks	2
TV talks	0
Popular articles	4
Extension Literature	1
Other, if any	-

C. Celebration of important days

Celebration of Important Days	No. of activities	Farmers				Extension Officials			Total		
		M	F	Total	SC/ ST (% of total)	M	F	Total	M	F	Total
Republic day (26 th Jan.)	1	30	25	55	16.36	9	1	10	39	26	75
International Women's Day (8 th Mar.)	1	0	24	24	16.66	0	0	0	0	24	24
Ambedkar Jayanti (14 th Apr.)	0	0	0	0	0	0	0	0	0	0	0

International Yoga Day (21 st Jun.)	2	5	1	6	33.33	0	0	0	5	1	6
Independence Day (15 th Aug.)	1					0	0				
Parthenium Awareness Week (16 th to 22 nd Aug.)	2	10	9	19	15.78	9	1	10	19	10	29
Hindi Diwas (14 th Sep.)	1	12	1	13	15.38	9	1	10	21	2	23
Gandhi Jayanti (2 nd Oct.)	7	104	40	144	9.72	18	4	22	122	44	166
MahilaKisanDiwas (15 th Oct.)	1	0	32	32	12.5	9	1	10	9	33	42
World Food Day (16 th Oct.)	1	14	4	18	22.22	9	1	10	23	5	28
Vigilance Awareness Week (27 th Oct. to 2 nd Nov.)	2	0	0	0	0	9	1	10	9	1	10
National Unity Day (31 st Oct.)	0	0	0	0	0	0	0	0	0	0	0
World Science Day (10 th Nov.)	0	0	0	0	0	0	0	0	0	0	0
National Education Day (11 th Nov.)	0	0	0	0	0	0	0	0	0	0	0
National Constitution Day (26 th Nov.)	1	24	5	29	17.24	9	1	10	33	6	39
World Soil Day (5 th Dec.)	1	55	0	55	27.27	9	1	10	64	1	65
KisanDiwas (23 rd Dec.)	1	92	12	104	13.46	9	1	10	101	13	114

D. Interaction/Live telecast programme of Hon'ble PM/Hon'ble AM

Sl.	Date of event	Name of Event/Programme	Interaction of Hon'ble PM/AM	Participants			
				Farmers	Staffs	VIP/Others	Total
1.	28-01-2020	Hon'ble PM speech to farmers, scientist and students on occasion of Global Potato Conclave	Hon'ble PM	40	10	0	50
2.	20-06-2020	Launch of GaribKalyanRojgarYojna	Hon'ble PM	40	7	0	47
3.	09-08-2020	Live telecast of Honourable PM NarendraModi on BalramJayanti programme for KisanSammanNidhi beneficiary farmers	Hon'ble PM	22	10	0	32
4.	10-09-2020	Live telecast of Honourable PM on the occasion of Foundation laying of various academic facilities and inauguration in Dr. Rajendra Prasad Central Agricultural University, Samastipur Bihar	Hon'ble PM	32	10	0	42
5.	14-12-2020	Launch of Jaljeewanharialiabhiyan	Hon'ble PM	97	5	2	104
6.	25-12-2020	Prime Minister of India addressing the farmers and releasing PM Kisan money to farmers	Hon'ble PM	105	10	5	120

Village seed

KVK farm

Production of planting materials by the KVKs

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Tuber							
Elephant yams							
Fodder crop saplings							
Forest Species							
Marigold	Pusa Narangi	10000	4000	0	0	12	12
Total		29500	37000	12	4	96	112

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						
Vermi compost	5000	40000				
Total	5000	40000				

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
Dairy animals							
Cows							
Buffaloes							
Calves							
Others (Pl. specify)							
Small ruminants							
Sheep							
Goat							
Other, please specify							
Poultry							
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”

Name of Seed Hub Centre: Krishi Vigyan Kendra, Saran

Name of Nodal Officer :	Dr.KanhaiyaLalRegar
Address :	Krishi Vigyan Kendra, Saran
e-mail :	head.kvk.manjhi@rpcu.ac.in
Phone No. :	6377158822
Mobile :	

ii) Quality Seed Production Reports

Season-wise/ Crop-wise/ variety-wise	Crop	Variety	Seed Production (qtls)		Category of seed
			Target	Achie.	
A. Kharif	NA	NA	NA	NA	
B. Rabi	Lentil	IPL-316	450	Crop Standing	F/S
	Chickpea	RVG-203	200	Crop Standing	F/S
	Pea	-	50		F/S
C. Summer	Green gram	-	200	To be conduct	F/S
	Black gram	-	100	To be conduct	F/S
Total			1000		F/S

iii) Financial Progress

(Rs. In Lakh)

Year	Opening Balance (1 st April)	Fund Utilized	Fund Earned (by seeds sale)	Interest gained/ Subsidy received if any	Closing Balance (31st March,)	Remarks (if any)
2018-19	72.97537	23.39741	8.12463	1.77777	83.48036	
2019-20	83.48036.1	3.82267	5.33943	2.96632	87.96344	
2020-21	87.96344.1	2.08266	0	2.30567	88.18645	

iv) Infrastructure Development

Item	Progress
Seed processing unit	Done
Seed storage structure	

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

Item	Title	Author's name	Number	Circulation
Research paper	1. Organic and Inorganic Sources of Fertilizers Affect the Yield Attributes, Yield of Bottle Gourd [<i>Lagenaria siceraria</i> (Mol.) Standl] and Modified Soil Physico-chemical Properties in Eastern Uttar Pradesh. <i>Int. J. Curr. Microbiol. App.Sci</i> 9 (7): 2191-2195. 2. Growth Performance and Mortality of Different Life Stages of Carp Fish Seed in Freshwater Fish Culture System. <i>J Krishi Vigyan</i> 9 (Special Issue) : 146-150. 3. Per se performance of parents and their F₁ hybrids for yield and related traits in tomato (<i>Solanum lycopersicum</i> L.) under polyhouse condition	Sanjay Kumar, Satendra Kumar Singh and Surendra Prasad P Kumar, A K Singh, S Prasad and S S Patel. Ankit Panchbhaiya, Dinesh Kumar Singh, Jitendra Chandra Chandola		
Seminar/conference/ symposia papers	1. Management of mango leaf hopper, <i>Amritodus atkinsoni</i> (Lethierry) on mango in Saran District, Bihar. 2. Evaluation on front line demonstrations on pigeonpea [(<i>Cajanus cajan</i> (L.) millsp.)] crop in Saran District, Bihar. 3. Impact assessment of front line demonstrations on rapeseed and mustard cv. Rajendra Sufalam in Saran District, Bihar	Surendra Prasad, Abhay Kumar Singh, Pankaj Kumar, S. S. Patel and Vijay Kuma Surendra Prasad*, R. K. Jha, A. K. Singh, Pankaj Kumar, S. S. Patel and J. C. Chandola Surendra Prasad, R. K. Jha, A. K. Singh, Pankaj Kumar, S. S. Patel and Vijay Kumar		
Books				
Bulletins				
News letter				
Popular Articles	Paudhon me PottasiumkaMahatv	Vijay kumar, Santosh Kumar & J. C. Chandola		
Book Chapter	Characterization, Applications, and Safety Aspects of Nanomaterials in the Food and	AnuKumari, PrachiWasnik, Saurabh Shankar Patel, and Sandeep Kumar		

	Dairy Industries			
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.					
2.					
3.					

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

photographs)

Name of farmer	Mrs. Sunita Prasad																																																			
Address	Village+ Post: Bareja, Block: Manjhi, District: Saran, Bihar-841201																																																			
Contact details (Phone, mobile, email Id)	09931252609																																																			
Landholding (in ha.)	0.04 ha																																																			
Name and description of the farm/ enterprise	i. Boiling of straw by making brick stand in tub with iron mesh under mushroom farming. ii. Vertical farming of vegetable in pipe at roof of house																																																			
Economic impact	: Mushroom <table><thead><tr><th>Year</th><th>Gross Return/ year</th><th>Net Return/ year</th><th>B:C Ratio</th></tr></thead><tbody><tr><td>2014</td><td>35,000.00</td><td>27,660.00</td><td>4.76</td></tr><tr><td>2015</td><td>49,000.00</td><td>38,520.00</td><td>4.67</td></tr><tr><td>2016</td><td>70,000.00</td><td>55,320.00</td><td>4.77</td></tr><tr><td>2017</td><td>1,15,000.00</td><td>92,978.00</td><td>5.22</td></tr><tr><td>2018</td><td>1,56,000.00</td><td>1,26,590.00</td><td>5.3</td></tr></tbody></table> Vertical farming & Solar Plate <table><thead><tr><th>Year</th><th>Gross Return/ year</th><th>Net Return/ year</th><th>B:C Ratio</th></tr></thead><tbody><tr><td>2014</td><td></td><td></td><td></td></tr><tr><td>2015</td><td>10,000.00</td><td>2,100.00</td><td>4.76</td></tr><tr><td>2016</td><td>12,553.00</td><td>2,120.00</td><td>5.92</td></tr><tr><td>2017</td><td>13,350.00</td><td>2,170.00</td><td>6.15</td></tr><tr><td>2018</td><td>15,563.00</td><td>2,324.00</td><td>6.69</td></tr></tbody></table>				Year	Gross Return/ year	Net Return/ year	B:C Ratio	2014	35,000.00	27,660.00	4.76	2015	49,000.00	38,520.00	4.67	2016	70,000.00	55,320.00	4.77	2017	1,15,000.00	92,978.00	5.22	2018	1,56,000.00	1,26,590.00	5.3	Year	Gross Return/ year	Net Return/ year	B:C Ratio	2014				2015	10,000.00	2,100.00	4.76	2016	12,553.00	2,120.00	5.92	2017	13,350.00	2,170.00	6.15	2018	15,563.00	2,324.00	6.69
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Social impact	a) Mushroom production with innovative Technology. b) Post harvest technology adopted by drying excess mushroom production c) Vertical farming at own house roof of vegetables d) Use of solar plate for electricity and also helping nearby villagers by providing electricity																																																			
Environmental impact	Under Mushroom production I modified the technology of straw sterilization by making brick stand in tub and keeping Iron mesh on that brick stand. By this technology large amount of straw is sterilized in one time side by side as straw is sterilize by steam s its																																																			

	take less time for drying thus by using this technology I save energy, fuel and time also.
Horizontal/ Vertical spread	I have made trained nearby women for mushroom production and also make available spawn for them . I also help them in marketing as well as train them to make several products of mushroom from there excess production

Vertical Farming of Vegetables at the Roof of House



Mushroom Farming with Innovative Technology

Name of farmer	Sri Chandan Prasad			
Address	Village: Bangrakhurd, Block: Revelganj, District: Saran			
Contact details (Phone, mobile, email Id)	09142813475			
Landholding (in ha.)	3.5 ha			
Name and description of the farm/ enterprise	Progressive fish farmer			
Economic impact	<i>Fish Production</i>			
	Year	Gross Return/ year	Net Return/ year	B:C Ratio
	2016	15,08,000	7,74,000	2.8
	2017	20,10,000	12,67,000	3.4
	2018	14,25,000	8,89,000	2.9

	<table><tr><td>2019</td><td>14,73,000</td><td>8,91,000</td><td>2.9</td></tr><tr><td>2020</td><td>10,03,000</td><td>6,45,000</td><td>2.6</td></tr></table>	2019	14,73,000	8,91,000	2.9	2020	10,03,000	6,45,000	2.6
2019	14,73,000	8,91,000	2.9						
2020	10,03,000	6,45,000	2.6						
Social impact	1. More than 10 farmers of my village started fish farming in 7.5 ha water area after getting inspired by me. 2. Improvement in nutritional status- Due to availability of fresh and good quality fish nutritional status is improving day by day. 3. Employment generation- 12-15 labours are working at my farm. Many more are getting employment on other nearby fish farms. 4. Change in mind-set- Earlier people were not taking fish farming as business but now many farmers are accepting it and started fish farming on commercial scale.								
Environmental impact	i. Recycling of wastes-I am using domestic wastes and human sewage for pond water manuring and fertilization. Using cow dung and mustard oil cake to enrich the pond water. ii. Judicial use of low lands for fish farming- 12.5 ha low land of my village has been converted into productive fish ponds. iii. Increased cash income from per unit area- Due to conversion of waste low land into fish culture ponds my income has been increased by many fold. iv. Use of azolla as fish feed- I am feeding herbivorous fishes with azolla. v. Culture of Pangasius fish in winter- Pagasius fishes are susceptible to low temperature but still I am able to culture it with some modifications in culture practice.								
Horizontal/ Vertical spread	I am providing benefit to fellow fish farmers by giving them training on advanced fish farming as well as fish seed production. As I have my own fish hatchery, I am able to provide them good quality of fish fingerling (Fish seed). More than 10 farmers of my village have started fish farming in around 7.5 ha water area under my guidance. Recently I have started Biofloc fish farming in 5 tanks of 10,000 L capacity each in which I am culturing <i>Pangasius</i> and <i>Amur Carp</i> fish. I am helping in the improvement of nutritional status as well as providing employment for local people of nearby village.								
Photographs	 								

3.8. 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
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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
1.	Paddy	Just after the harvesting and proper drying of paddy, farmers make a small ball of fresh cow dung, get them stick to a thin film of paddy seeds spread on the grounds. Get them dried in the sun and	Safe storage, line sowing, proper depth of sowing and ease

		keep in safe storage. At the time of sowing of the crop, they put these balls in the ground as sowing behind the plough and get bumper plant population and good harvest.	in sowing
2	Cucurbits	Two innovative technologies of farmer i.e. saving of mortality of cucurbits with high temperature and westerly wind and relay cropping system of vegetables with paddy is given under documentation in success story of NICRA, CRIDA Hyderabad.	Save mortality of seedlings
3	Vegetable	Planting of pointed gourd through manual earth diggers (Rumba) by farmers of diara land is being popularized among farmers and it will be documented after experimentation.	Save moisture
4	Mushroom	Use of paddy straw instead of wheat straw for mushroom production is being popularized. this innovative technology not only increases the production by 100 to 150 gm/bag but also saves water because no need to remove polyethine. This report will be documented after experimentation	Increase yield

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)
1	Lentil,	0.29	3 q	1	Y
2	Papaya	0.07	60 q	1	Y
3	Maize	0.35	9.60 q	2	Y
4	wheat	0.07	2.50 q	1	Y
5	Rai	0.35	4.80 q	2	Y

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

- ✓ PRA
- ✓ As per farmers demand
- ✓ As per Government policies
- ✓ As per direction by University and ATARI
- ✓ As per demand by NGOs

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

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

Sl. No	Name of the Equipment	Qty.
1.	Mirdaparikhak Mini soil testing kit	1

3.11.b. Details of samples analyzed so far:

Number of soil samples analyzed		
Through mini soil testing kit/labs	Through soil testing laboratory	Total
183	0	183

3.11.c Detail of Soil, Water and Plant analysis at KVK

Sl.	Analysis	No. of Samples analyzed	No. of Villages	No. of Farmers	Amount realized (Rs.)
1.	Soil	183	12		
2.	Water				
3.	Plant				
4.	Fertilizers				
5.	Manures				

6.	Food				
7.	Others (if any)				

3.11.d. 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.	Awareness	65	0	None	25	65

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 (No.)	Visit by the officials (No.)

3.13. Technology week celebration

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

3.14. RAWF/ FETprogramme - is KVK involved? (Y/N)“YES”

No of student trained	No of days stayed
2	21

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
02-01-2020	Prof Dr Ravi Prakash Maurya, KVK, Balia, U. P.	Field visit
26-02-2020	Sri Ravindra Kumar, DDM, Saran	Training inauguration Mushroom and organic grower
14-03-2020	Dr. M. S. Kundu, DEE, Dr. RPCAU Pusa- cum-Chairman, SAC Meeting	SAC meeting
	Sri Ratendra Kumar Singh, PPS, Saran	
	Sri Sant Kumar, coordinator, NavJagranVikashSamiti, NGO, Garkha, Saran	
	Sri Aniroodh Kumar Singh, Agriculture coordinator, DAO, Saran	

	Sri Dinesh Kumar, Fisheries Extension Officer, Saran	
	Dr. Rakesh Kumar, Touring Veterinary Officer, Saran	
	Sri Pradip Kumar, District Fisheries Officer-cum- CEO, Saran	
	Sri. Vinay Kumar Singh, DPM, JEEVIKA, Saran	
	Sri. Sujit Kumar, LDM, Saran	
	Sri. A. K. Shrivastava, DDM, NABARD	
	Sri. Jayram Pal, DAO, Saran	
10-07-2020	Raju Pant, Assistant Director, Horticulture, Saran	Demonstration visit
10-07-2020	Dr. Deepak Kumar, Assistant Director, Chemistry, Saran	Demonstration visit

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)
Cropping System and farming System approach to sustainable agriculture	36	57	20000/ha	25000/a
Resource conservation Technology	117	61	17000/ha	20000/ha
INM	185	60	18000/ha	25000/ha
IPM	115	58	21000/ha	18000/ha
Seed Production	30	22	26000/ha	46000/ha
Vermicompost Production	60	20	4800/unit	14400/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
Seed treatment	76%
Use of Improved or HYV	75%
Use of Biofertilizer	26%
Use of Vermicompost in vegetable	28%
IFS	6%
Mushroom Production	38%
Seed Production	48%

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

An impact analysis was done in the adopted villages through questionnaire, PRA, group discussion, Question answer series and it was found that INM, RCT, Integrated Farming approach, Farming Systems approach and Increasing the fertilizer use efficiency have great impact on the farmers

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	Resource Conservation
Name of the Innovation	Relay cropping of vegetable with Paddy
Details of Innovator	NarvdeswarGiri, Vill-Affaur, Nagra-block, Distt- Saran, Ph.No.9973077637/8292054096
Back ground of innovation	Age-60 years Education-Graduation Land holding-2 ha Farming experience-10 years Crop grown-Wheat, maize, rapeseed, mustard, long melon, tomato, brinjal, paddy. Life stock -cow2, buffalo-2, calf-1 Social recognition- -Member of VCRMC (NICRA)
Technology details	He evolved relay cropping of vegetables with paddy [Brinjal-Tomato-cucumber/long melon-Paddy]. Sowing of brinjal in nursery was done by 15 th August and transplanting in the main field by 15 th September at 6 feet ×3 feet distance on permanent beds. Seedlings of Tomato were raised in a separate nursery in last week of November and transplanting was done in between the rows of brinjal at a distance of 4 feet. The plant geometry was so maintained that there was no shading effect of Brinjal on tomato. Now cucumber and long Melon was sown directly in between the plants of tomato at a distance of 2 feet by 25 th February or the atmospheric temperature was around 22-23°C. The creepers were allowed to grow on the ground and no staking was done. To prevent the fruit from soil contact natural mulch of grass, weeds and paddy straw was done.
Practical utility of innovation	For managing probable nocturnal insect pests inhabiting in the grass mulch, Neem based insecticide was used prepared by the farmers himself. Sesbania was grown in the field by 25-30 th May and it was incorporated in the field at 45 days duration irrespective of monsoon break with supplemental irrigation. Short duration paddy was then taken in the field after puddling. Thus farmers get could get gross economic return of Rs. 60000.00 from one ha of land.

2.

Thematic area	Crop production
Name of the Innovation	Multiple cropping in guava garden
Details of Innovator	ShriUmeshwarkumar Singh, Vill-Affaur, Nagra-block, Distt- Saran Ph.No. 8084041776
Back ground of innovation	Age-60 years Land holding-10ha Farming experience-30 years Crop grown- Paddy, wheat, enterprise pond, fish farming, rapeseed, red gram. Life- stock – Four milk animals Social recognition- chairman of VCRMC (NICRA), Chairman of PACS, Dealer of PDS

	(Public Distribution System)
Technology details	A Guava based Multiple Cropping System taking 4 crops per year apart from main crop of guava. He established guava garden keeping planting geometry in such a manner that there was easy movement of tractor operated farm implements and no shading effect of guava canopy on the agricultural crops. Regular training and pruning of guava was done to keep the canopy well maintained. Four rows kharif maize was planted in between the two rows of guava. All the farm operations were done as usual based on maize recommendations. After the harvest of maize, Toria was taken that could be harvested by 15 th of January. Now summer vegetables like bottle gourd + Lady's finger was taken. Banana was planted all around the guava garden to give a protective wall and to act as wind break apart from giving additional yield.
Practical utility of innovation	During summer months, natural mulch of paddy straw was applied in the bottle gourd + Lady's finger and worms were released in the field for in situ vermicomposting, moisture retention and nutrient supply for longer periods. Thus ShriUmeshwar Singh could get a Gross Income of more than 80000.00 per ha from the guava garden.

4.5. Details of entrepreneurship development

Entrepreneurship development

Name of the enterprise	Singh Vermicompost			
Name & complete address of the entrepreneur	Sri Rameshwar Singh, Village: Karah, Block: Baniyapur, District: Saran Bihar			
Intervention of KVK with quantitative data support:				
Time line of the entrepreneurship development	5 years In the year 2012, enterprise of Enriched Vermicompost production and Banana Cultivation.			
Technical Components of the Enterprise	a. To make enrich quality of vermicompost, I add azatobacter, PSB and turmeric. I start cultivation of turmeric in banana field for mixing in vermicompost which save the vermicompost with fungus attack. b. I decrease the height of vermicompost unit with 2.5ft to 1.5 ft and getting Vermicompost production in 10 days earlier than 3ft height due to aerahon in lower side of pit. Putting water hyacinth in one layer and banana in next layer that increases the feeding habit of each worm.			
Status of entrepreneur before and after the enterprise	For business enhancement at first increases the cultivation of banana for raw material of vermicompost. I start selling vermicompost which make contact with other farmers, make contact with District Agriculture Officer for registration and got registration by “Singh Vermicompost”. The sell of enrich vermicompost is more than previous one.			
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	He provides benefit to fellow farmer by giving them training on vermicompost production and by providing earthworm to them free of cost. As a resource person he trained 100 farmers for vermicompost production. He has established ManavSevaSansthan in which he trained the farmer. SHGs group and try to provide help in getting loan with bank for starting this enterprise.			
	Year	Gross Return/ year	Net Return/ year	B:C Ratio
	2014	100000	25000	2.0
	2015	75,000.00	175000	1.37
	2016	225000	67500	2.25
	2017	1,10,000.00	550000	1.75
	2018	625000	250000	2.5

	2019	540000	210000	2.2
Horizontal spread of enterprise	As a resource person he trained 100 farmers for vermicompost production. He has established ManavSevaSansthan in which he trained the farmer. SHGs group and try to provide help in getting loan with bank for starting this enterprise.			

4.6. Any other initiative taken by the KVK

Sl. No	Activity	Number of farmers	No. of Villages/Blocks
1	Farm Advisory Service through SMS	13 Messages to 49315 farmers	38
2.	Weather based message forwarding through SMS	4 messages to 3850 Farmers	20
3	Advisory Service through Phones	As and when needed	
4.	Climate Management through Climate Management Committee under NICRA Project	131	2
5	Fodder Management through Fodder Management Committee under NICRA	145	2
6	Community Nursery under NICRA	95	2
7.	Provision of free internet facility to the farmers when required	As and when needed	
8	Establishment of Village Resource Centre under NICRA	104	2

5. LINKAGES

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
District Agriculture Department	Identification of training needs Joint implementation of training programme Diagnostic Team visits Identification of target groups
DRDA, Saran	Sponsored Training Programme & Joint Implementation of Developmental Programme
Agriculture Technology Management Agency (ATMA) Saran	Sponsored Training Programme & Joint Implementation of Developmental Programme Sponsored Training Programmers Preparation of SERP Identification of target groups
District Horticulture Department Saran	Joint participation in meetings Demonstration of Biofertilizers Joint implementation of training programme, Diagnostic Team visits. Identification of target groups
Joint Director, Agriculture Saran	Joint Implementation of Training programme Diagnostic team visits Identification of training needs
Jeevika	Training Programme
NABARD	Training Programme and Kisan club formation

NYK	For technology transfer
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5.2. List of special programmes undertaken during 2019 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies(information of previous years should not be provided)

a) Programmes for infrastructure development

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

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

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Skill development training (PMKVY)	Training	Feb-2020	ASCI	2,80,000/-
NICRA	Technology Demonstration	April- 2020	CRIDA, Hyderabad	8,21,000/-
Seed Hub	Seed Production of pulses		ICAR	2400000/-
Soil health day	Awareness	Dec-2020	ICAR	0/-

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq.mt)	Details of production			Amount (Rs.)		Remarks
				Variety/ breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Mushroom	2013	600						
2.	Fruit preservation	2013	24						
	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	
Paddy	11.06.2020	03.11.2020	1.5	Sahbhagi	F/S	37	65000	136900	
Wheat	10.12.2020	Standing	4						
Pea	05.11.2020	Standing	0.5						
Lentil	08.12.2020	Standing	1						
Rai	16.11.2020	Standing	1.5						
Green Gram	18.03.2020	24.05.2020	1	HUM-16	F/S	2	18000	30600	
Pigeon Pea	28.07.2020	Standing	1						

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.	Vermicompost	5000		Used in farm	

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6.4. Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Animal cow bull	Sahiwal & Jersey	Natural insemination	216	22100	43200	
2.	Goat	Sherohi	Natural insemination	68	2010	4080	
3.	Bull buffalo bull	General	Natural insemination	144	12300	28800	
4.	Fish	Katla, Rohu	Fish	326 kg	22300	65200	

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)
February, 2020	12	16	
March, 2020	12	16	
Total:	24	32	

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed: Yes
 No. of staff quarters: 6
 Date of completion: 2013

Occupancy details:

Months	Q I	Q II	Q III	Q IV	Q V	Q VI
January 2019 - December 2020	Yes	Yes	Yes	Yes	Yes	Yes

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
KVK Current	Allahabad Bank	Manjhi	20928184086
KVK Revolving (saving)	Allahabad Bank	Manjhi	20928304406
KVK Seed Hub (Revolving)	Allahabad Bank	Manjhi	50409575779

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

Item	Released by ICAR		Expenditure		Unspent balance as on -
	Kharif	Rabi	Kharif	Rabi	
Pulses	0	0	26650	140055	
Oilseed	0	0	0	42600	

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

Item	Released by ICAR		Expenditure		Unspent balance as on 31th Dec 2020
	Kharif	Rabi	Kharif	Rabi	

7.4. Utilization of KVK funds during the year 2020(Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	-	-	-
2	Traveling allowances	150000	49460	33350
3	Contingencies			
A	Office	300000	300000	278333
B	Training	270000	100000	24420
C	FLD	95000	50000	9639
D	OFT	70000	25000	17764
E	Soil and water testing	0	0	0
F	Maintenance	25000	0	0
G	Extension activities	25000	0	0
I	Swachhta Expenditure	15000	0	7400
TOTAL (A)		950000	524460	370906
B. Non-Recurring Contingencies				
1	Works	0	0	0
2	Vehicle	0	0	0
3	Equipment and Furniture	0	0	0
4	Library	0	0	0
TOTAL (B)				
C. REVOLVING FUND		0	0	0
GRAND TOTAL (A+B+C)		950000	524460	370906

7.5.Status of **Revolving fund** (Rs. in lakh) for last three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st January of each year (Kind + cash)
2015-16	438838	444826	532712	350952
2016-17	350952	355520	474905	231567
2017-18	231567	479276	511049	199794
2018-19	199794	1394820	704820	889794
2019-20	889794	96927	536823	449898
2020-21	481810	473493	923199	32104

7.6. (i) Number of SHGs formed by KVKs -----5

Sl. No.	Name of the SHGs	No. of Members	Working on
1	MahilaVikasSamiti, Dharnidas Ka Mathia	15	Stitching, Embroidery
2	MahilaVikasSamiti, Dumri	12	Sattu,Besan Bari Making
3	MahilaVikasSamiti, Mali Tola	11	Pickles, Agarbatti making
4	MahilaVikasSamiti, Makdum Ganj	12	Embroidery and Applique

5	MahilaVikasSamiti, Miyanpatti	14	Goat Rearing
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- (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 activities	Season	With line department	With ATMA	With both
Rabi Abhiyan	20	Rabi	Y	Y	Y
Farmers training	3	Rabi	Y	N	N
Fall Army Worm	8	Rabi &Kharif	Y	Y	Y
Locust control	10	Kharif	Y	Y	Y

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	Male	Female	

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	1	7737
Livestock	2	15299
Fishery	2	10484
Weather	2	4185
Marketing	2	11610
Awareness	4	7737

Training information	4	15299
Other		
Total	17	49315

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 KVK	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	

9.5 Kisan Mobile Advisory Services (KMAS)

Sl. No.	Discipline	No. of Advisories	No. of Messages (SMSs)	No. of Farmers
1.				
2.				
3.				
4.				
5.				

9.6. a. Observation of Swachha Bharat Programme/Pakhwara

	Name of activities as per theme	Total No. of Participants	No. of VIPs Attended the programme	No. of farmers participated
16-12-2020	Swachhata pledge by KVK staffs, display of banners and plantation in KVK premises	20	0	5
17-12-2020	Digitization of office records, cleanliness drive of KVK office and corridor, disposing of old and obsolete materials	15	0	0
18-12-2020	Cleanliness and sanitation drive in Saahbalpur village Manjhi	30	0	27
19-12-2020	Cleanliness drive in office premises and other surrounding areas	15	0	5
20-12-2020	Waste management, disposal of organic wastes into vermi-compost unit	18	0	15
21-12-2020	Awareness on recycling of waste water and water harvesting for agriculture	15	0	14

22-12-2020	Cleanliness drive of nearby village	22	0	21
23-12-2020	Celebration of Kisan Diwas with farmers	65	0	50
24-12-2020	Swachchata awareness at nearby village and sanitation drive	28	0	25
25-12-2020	Plantation and sanitation drive under swachchata pakhwada	65	2	51
26-12-2020	Office Campus Cleaning and Plantation drive	25	2	10
27-12-2020	Awareness on Waste Management	21	0	18
28-12-2020	Campaign on cleaning of sewerage & water lines, Cleaning of nearby village	32	0	26
29-12-2020	Awareness on treatment and safe disposal of biodegradable and non-biodegradable wastes among the farmers.	23	0	20
30-12-2020	Office premises cleaning in presence of print media	18	0	0
31-12-2020	Cleaning of staff quarters and surroundings	19	0	0

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	0	-
2. Basic maintenance	190	9000
3. Sanitation and SBM	0	-
4. Cleaning and beautification of surrounding areas	10	6000
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	2	500
6. Used water for agriculture/ horticulture application	10	500
7. Swachhta Awareness at local level	6	1000
8. Swachhta Workshops	0	
9. Swachhta Pledge	0	
10. Display and Banner	5	1500
11. Foster healthy competition	0	
12. Involvement of print and electronic media	0	-
13. Involving the farmers, farm women and village youth in the adopted villages (no	0	500

of adopted village)		
14. No. of Staff members involved in the activities	9	-
15. No of VIP/VVIPs involved in the activities	0	-
16. Any other specific activity (in details)	0	-
Total	230	19500

9.7. Observation of National Science day

Date of Observation	Activities undertaken

9.8. Programme with SeemaSurakshaBal/ BSF

Title of Programme	Date	No. of participants

9.9. Agriculture Knowledge in rural school

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

Give good quality 1-2 photograph(s)

9.10. Details of 'Pre-Rabi Campaign' Programme

Date of programme	No. of Union Ministers attended the programme	No. of Hon'ble MPs (Loksabha/ Rajyasabha) participated	No. of State Govt. Ministers	Participants (No.)							Coverage by Door Darshan (Yes/No)	Coverage by other channels (Number)
				MLAs Attended the programme	Chairman Zila Panchayat	Distt. Collector/ DM	Bank Officials	Farmers	Govt. Officials, PRI members etc.	Total		

9.11. Details of Swachhta Hi Sewaprogramme organized

	Name of activities as per theme	Total No. of Participants	No. of VIPs Attended the programme	No. of farmers participated	Number of images/ photographs uploaded (jpg Format)
16-12-2020	Swachhata pledge by KVK staffs, display of banners and plantation in KVK premises	20	0	5	1

17-12-2020	Digitization of office records, cleanliness drive of KVK office and corridor, disposing of old and obsolete materials	15	0	0	1
18-12-2020	Cleanliness and sanitation drive in Saahbalpur village Manjhi	30	0	27	2
19-12-2020	Cleanliness drive in office premises and other surrounding areas	15	0	5	1
20-12-2020	Waste management, disposal of organic wastes into vermi-compost unit	18	0	15	1
21-12-2020	Awareness on recycling of waste water and water harvesting for agriculture	15	0	14	1
22-12-2020	Cleanliness drive of nearby village	22	0	21	1
23-12-2020	Celebration of KisanDiwas with farmers	65	0	50	2
24-12-2020	Swachchata awareness at nearby village and sanitation drive	28	0	25	1
25-12-2020	Plantation and sanitation drive under swachchatapakhwada	65	2	51	2
26-12-2020	Office Campus Cleaning and Plantation drive	25	2	10	1
27-12-2020	Awareness on Waste Management	21	0	18	1
28-12-2020	Campaign on cleaning of sewerage& water lines, Cleaning of nearby village	32	0	26	1
29-12-2020	Awareness on treatment and safe disposal of biodegradable and non-biodegradable wastes among the farmers.	23	0	20	1
30-12-2020	Office premises cleaning in presence of print media	18	0	0	1
31-12-2020	Cleaning of staff quarters and surroundings	19	0	0	1

9.12. 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	Celebration of Mahilakisandiwas	5	42	0	0

9.13. 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	Sri Rajesh Kumar	Village+PO- Darihara, Block-Dariyapur, District: Saran, Bihar Mobile:- 9097513662	Resource Conservation Technology System of Rice Intensification Vermicomposting Zero tillage Organic Farming
2	Sri Rama Kant Singh	Village+PO- Darihara, Block-Dariyapur, District: Saran, Bihar Mobile:-	Resource Conservation Technology System of Rice Intensification System of Wheat Intensification Vermicomposting Water conservation Zero tillage FIRB Planter Drought and Flood Resistant Varieties Climate Related agricultural decisions
3	SriNarvadeshwarGiri	Village+Post: Affaur, Block: Nagra, District: Saran Mobile No.: 08292054096	Application of Mulch in Fruit Garden for in situ moisture conservation and in situ vermicomposting. Staggered Rice Nursery
4	Smt. Sunita Prasad	Village+Post: Bareja, Block: Manjhi, District: Saran, Bihar-841201 Mobile No.: 09931252609	Mushroom and Vertical farming
5	Sri Rameshwar Singh	Village: Karah, Block: Baniyapur, District: Saran, Mobile No.: 9546501279	Enriched Vermicompost production and Banana Cultivation
6	Sri Nagendra Kumar Sahni	Vill- GhurahuKothiya, Dariyapur, Saran	Mushroom farming related activities
7.	Sri Chandan Prasad		

9.14. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Seed hub	6,21,000	
2.	Revolving	3,34,425	

9.15. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1	Organic grower & mushroom grower	Skill development	ASCI	3.60	
2	NICRA	Climate resilient technology demonstration	ICAR	7.8	

9.16. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
September 2012	ICAR	Not functioning properly

9.17. 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
Bihar	Saran	Contingent crop planning	3	71	Short duration variety of paddy R. Bhagwati and Sahbhagi, Heat stress tolerant variety of wheat DBW-14, WR-544, make popularize among farmers

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

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

Experiment	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 2020

Sl.	Activities	Physical Achievement	
1)	Trainings	No. of Trainings/Demos	No. of beneficiaries
a.	Farmer		
b.	Women		
c.	Rural Youths		
d.	Extension Personnel		
2)	OFT	No. of OFTs	No. of beneficiaries
3)	FLD	No. of FLDs	No. of beneficiaries
4)	Mobile agro- advisory to farmers	No. of advisory	No. of beneficiaries
5)	Other activities		
a.	Participants in extension activities (No.)		

b.	Production of seed (q)	
c.	Production of Planting material (No. in lakh)	
d.	Production of Livestock strains (No. in lakh)	
e.	Production of fingerlings (No. in lakh)	
f.	Testing of Soil, water, plant, manures samples (Nos.)	
g.	Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)	
h.	No. of other programmes (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	%	
3	Change in availability of agricultural implements/ tools etc.	No. per household	

d. Location and Beneficiary Details during 2017-18

District	Sub-district	No. of Village covered	Name of village(s) covered	ST population benefitted (No.)		
				M	F	T

12. Details of SCSP

Sl.	Activities	Physical Achievement	
1)	Trainings	No. of Trainings/Demos	No. of beneficiaries
a.	Farmer		
b.	Women		
c.	Rural Youths		
d.	Extension Personnel		
2)	OFT	No. of OFTs	No. of beneficiaries
3)	FLD	No. of FLDs	No. of beneficiaries
4)	Mobile agro- advisory to farmers	No. of advisory	No. of beneficiaries
5)	Other activities		
a.	Participants in extension activities (No.)		
b.	Production of seed (q)		
c.	Production of Planting material (No. in lakh)		
d.	Production of Livestock strains (No. in lakh)		
e.	Production of fingerlings (No. in lakh)		
f.	Testing of Soil, water, plant, manures samples (Nos.)		

13. Progress report of NICRA KVK (Technology Demonstration component) during the period

(Applicable for KVKs identified under NICRA)

Natural Resource Management

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
Renovation of pond		2	4	1	0	1	0	10	0	12	0	12	
Plastic and straw mulching in summer vegetables		4	2.5	1	0	0	0	3	0	4	0	4	
Application of second dose of nitrogenous and potasic fertilizers in paddy crop				7	0	3	0	50	0	60	0	60	
Manually weeding in paddy and cucurbitaceous vegetable crop				2	0	1	0	15	0	18	0	18	
Zero tillage wheat sowing (Var. <i>HD 2967</i>)		6	2.5	1	0	0	0	10	0	11	-	11	
Raised bed planting tomato (Var. <i>Pusa Rohini</i>)		4	1.5	1	0	0	0	8	0	9	0	9	
Brinjal (Var. <i>Pant Rituraj</i>) under straw mulching		4	0.5	0	0	1	0	5	0	6	0	6	

Crop Management

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted									Remarks
		SC		ST		Other		Total			
		M	F	M	F	M	F	M	F	T	
Short duration drought tolerant variety paddy var. <i>Sahbhagi</i>	48	5	0	4	0	26	0	35	0	35	
Flood/submergence resistant variety var. <i>R. Mansuri</i>	9	1	0	1	0	7	0	9	0	9	
Crop diversification through kharif <i>Maize</i>	4.5	3	0	2	0	12	0	17	0	17	
Foliar spray of micronutrient in vegetable crop		0	0	0	0	4	0	4	0	4	
Insect pest management in vegetable crop		1	0	1	0	7	0	9	0	9	
Potassium fertilizer application in maize		1	0	2	0	9	0	11	0	11	

after heavy rain											
Application of third dose of nitrogenous and potassic fertilizers in paddy crop		5	0	3	0	52	0	60	0	60	
Spray of 0.2% copper-oxychloride against false smut of rice		1	0	1	0	10	0	12	0	12	
Insect pest management in vegetable crop		1	0	0	0	0	0	3	0	4	
Potassium fertilizer application in maize after heavy rain		1	0	0	0	5	0	6	0	6	
Intercropping of maize under potato	2.5	2	0	1	0	11	0	14	0	14	
Crop diversification through spices: Coriander (<i>R. Dhania-1</i>), Fenugreek (<i>R. Kanti</i>), Fennel (<i>R. Saurabh</i>), Nigella (<i>R. Shyama</i>), Cumin (<i>R. Mani</i>)	4	4	0	7	0	44	0	55	0	55	
Crop diversification through Rai (Var. <i>R. Suphalam</i>)	4	2	0	1	0	18	0	21	0	21	
Crop diversification through Lentil (Var. <i>IPL 316</i>)	2.5	1	0	1	0	14	0	16	0	16	
Crop diversification through Chickpea (Var. <i>RBG 203</i>)	1.5	1	0	1	0	7	0	9	0	9	
Crop diversification through Linseed (Var. <i>Shekhar</i>)	2.5	2	0	1	0	12	0	15	0	15	

Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)	No of farmers covered / benefitted										Remarks
				SC		ST		Other		Total				
				M	F	M	F	M	F	M	F	T		
Cattle feed supplement (Chealated Mineral mixture)	26	26		3	0	2	0	21	0	26	0	26		
Green Fodder Production (Maize var. <i>Vijai</i>)	6	6	2.0	0	0	0	0	6	0	6	0	6		

Fish fry stocking	2	2	0.75	1	0	0	0	1	0	2	0	2	
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Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks	
			SC		ST		Other		Total				
			M	F	M	F	M	F	M	F	T		
Fodder bank	4		2	0	1	0	27	0	30	0	30		
Kitchen gardening with winter crop	4	0.4	0	1	0	1	0	2	0	4	4		

Capacity building

Thematic area	No of Courses	No of beneficiaries								
		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T
Resource conservation technology in rice	1	2	0	1	0	18	0	21	0	21
Mulching and its impacts	1	3	0	2	0	14	0	19	0	19
Moisture retention/Soil resilience by incorporating green Manuring crop-Green Gram	1	3	0	1	0	17	0	21	0	21
Production techniques of QPM	1	1	0	1	0	15	0	19	0	17
Dairy Based IFS model	1	4	0	2	0	15	0	21	0	21
Feed Management in caprine population	1	1	0	1	0	14	0	16	0	16
Community fodder bank	1	2	0	2	0	15	0	19	0	19
Insect Pest management in vegetable crop	1	2	0	1	0	24	0	27	0	27
Pond based IFS model	1	3	0	2	0	14	0	19	0	19
Cattle feed supplement in rainy season	1	4	0	2	0	22	0	28	0	28
Mushroom Production	1	2	0	1	0	15	0	18	0	18
Resource conservation technology in wheat	1	1	0	3	0	16	0	20	0	20
Water management in <i>rabi</i> crop	1	2	0	1	0	17	0	20	0	20

Extension activities

Thematic area	No of activities	No of beneficiaries								
		SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T
VCRMC Meeting	11	10	0	12	0	160	0	182		182
SwachhataAbhiyan/Hygienic utilization of Crop Residues and Dungs	2	3	1	2	1	30	8	35	10	45
Awareness	7	1	0	1	0	87	0	89	0	89
Agro advisory services	14	6	1	3	2	98	8	107	11	118

Diagnostic field visit	14	2	0	5	0	74	0	81	0	81
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Detailed report should be provided in the circulated Performa

14.a) Awards/Recognition received by the KVK in year 2020

Sl. No.	Name of the Award	Conferring Authority	Amount	Purpose
1.	Best KVK award	Dr. RPCAU, Pusa, Samastipur	NA	For delievering best amongst KVK under DRPCA, Pusa

b) Award received by Farmers in year 2020

Sl.	Name of the Award	Name of the Farmer	Address	Contact No.	Aadhar No.	Amount	Purpose	Conferring Authority
1.	AbhinavKisanPuraskar	Mr. Narendra Kumar Sahni	GhoruMathiya, Dariyapur	9135183451		5000		DRPCA, Pusa

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

16. 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

17. Integrated Farming System (IFS)

A) Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
1	Fisheries (IMC Production)	0.40	2.0 q	24300.00	40000.00	02	-
2	Bovine		Production through Natural Services	34400.00	72000.00		
3	Goatary		Production through Natural Service by Buck	2010.00	4080.00 As well as improved stocking rate		
4	Vermicompost		10 q	3000.00	9000.00		
5	Azolla		3.0 q	5000	7500		
6	NADEP		8.0 q	2000	5000		

B) Activities under IFS

Sl. No.	Component Name	No. of Components established	Area (ha)	No. of Activities		No. of farmers benefited	
				Demo	Training	Demo	Training
1.	Fisheries	2	0.25	2	21	560	80

2.	Goatary	2	0.01	2	20	560	65
3.	Poultry	2	0.1	2	22	560	105

18. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Rice cultivation through direct seeded rice (DSR)	• No need to raise paddy seedlings, less labour intensive and time consuming method • About 30-35 man days per ha can be saved as compared to traditional transplanting method. • Can be directly sown in the prepared field with the help of Zero tillage machine. • Proper weed management with pre and post emergence weedicide can be applied to ensure weed free crop. • Feed back of farmer from Affaur, Samhauta, Majhwalia, Nandpur villages reported as less cropping time and water saving under DSR	30080	21	
2	Application of zero tillage technology in wheat sowing	• The technique saved Rs. 3000-3500 per ha in cost of ploughing, labour as well as water irrigation support • This technology leads the advancement of wheat sowing by 8-10 days and yield increases by about 15-19%. • Placement of fertilizer and seed at proper depth.	44925	2	

		• Reported to be less weed <i>Phalaris minor</i> infestation in field.			
3	Relay cropping of vegetables with rice crop in deficient and untimely rainfall conditions	• Relay cropping ensures cash flow round the year as compared to rice-wheat based cropping system owing to climatic variability and hence sustainable and profitable proposition. • The combination of vegetables + rice recorded a higher return with highest net return recorded in the tune of 3.25 lakh/ha. • Up scaling of technology in 10 ha of land in Affaur village of Nagra block revealed an overwhelming response in nearby areas.	3,25,000.00	12	
4.	In-situ moisture conservation through plastic and straw mulching	• Protect the soil from deleterious effect of rain and excessive temperature variables. • Regulates the temperature of soil and conserve the soil moisture. • Minimizes the weed infestation and insect pest. • Mulching in tomato, brinjal practiced in different villages of Dumri, Affaur, Darihara and Beraja revealed an overwhelming response among the farming communities. • Reduces the cost of vegetable production by	247500	24	

		10-12%			
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19. Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I (up-to 15.03.2018)					
II (up-to 24.04.2018)					
Total					

20. Information on Visit of Ministers to KVKs, if any

Date of Visit	Name of Hon'ble Minister	Name of Ministry	Salient points in his/ her observation (2-3 bulleted points)

21. a) Information on ASCI Skill Development Training Programme, if undertaken during 2017-18, 2019 and 2020

Year	Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants	Whether uploaded to SDMS Portal (Y/N)	Fund utilized for the training (Rs.)
2016-17	Mushroom Grower	Dr. Surendra Prasad	March-2017	April-2017	20	Y	3,17,600/-
	Organic Grower	Dr. Ratnesh Kumar Jha	March-2017	April -2017	20	Y	
2017-18							
2018-19	Mushroom Grower	Dr. Surendra Prasad	07.02.2019	08.03.2019	20	Y	3,30,400/-
	Organic Grower	Dr. Vijay Kumar	18.02.2019	19.03.2019	20	Y	
2019-20	Mushroom Grower	Dr. Surendra Prasad	26.02.2020	-	20	Y	1,80,000
	Organic Grower	Dr. Kanhaiya Lal Regar	26.02.2020	-	20	Y	1,80,000

c) Information on Skill Development Training Programme (Other than ASCI or less than 200 hrs., if any) if undertaken during 2020

Thematic area of training	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	

22. Information of NARI Project(if applicable)

Name of Nodal Officer	No. of OFT on specified aspects	Title(s) of OFT	No. of FLD on specified aspects	No. of capacity development programme on specified aspects	Total no. of farm women/ girls involved in the project	Details of Issues related to gender mainstreaming addressed through the project

Progress Information of NARI Project

a. Details of established Nutrition Garden in Nutri-Smart village

Sl.	Name of Nutri-Smart Village	Type of Nutrition Garden	Number	Area (sqm)	No. of beneficiaries
1.		Backyard/Kitchen garden			
2.		Community level			
3.		Terrace Garden			
4.		Vertical Garden			
TOTAL					

b. Details of Bio-fortified crops in Nutri-Smart village

Name of Nutri-Smart Village	Season	Activity (OFT/FLD)	Category of crop (cereal/pulses/oilseed/fruits & veg./others)	Name of Crop	Variety	Area (ha)	No. of beneficiaries

c. Value addition in Nutri-Smart village

Name of Nutri Smart Village	Name of Crop/veg./fruits/other	Name of Value added product	Activity (OFT/FLD)	No. of farmers/beneficiaries

d. Training programmes in Nutri-Smart village

Name of Nutri Smart Village	Area of Training	No of courses	No. of beneficiaries

e. Extension activities under NARI Project

Name of Nutri-Smart Village	Title of Activity	No. of activities	No. of beneficiaries

23. Activities under KSHAMTA

Number of Adopted Villages	No. of Activities		No. of farmers benefited	
	Demo	Training	Demo	Training

24. Activities under MGMG:

Total No of Groups/team formed	No. of Scientists Involved	No. of villages covered	No. of field activities conducted	No. of messages/advisory sent	Farmers benefited (No.)

25. Activity information of Farmer FIRST Programme (FFP)

Sl.	Modules	Activity Information	
		Demo (No.)	No. of Farm Families

1.	NRM Module		
2.	Crop Module		
3.	Horticulture Module		
4.	IFS Model		
		Demo (No.)	No. of Farm Families No. of Animals
5.	Livestock & Poultry		
		No. of Program	No. of farmers
6.	Extension Activities		

26. Information on Krishi Kalyan Abhiyan Phase- I/ Phase-II/ Phase-III, if applicable

Krishi Kalyan Abhiyan- I/II

A. Training

Name of programme	No. of programmes	No. of farmers benefitted									No. of officials attended the programme
		SC		ST		Others		Total			
		M	F	M	F	M	F	M	F	T	
KKA-I											
KKA-II											

B. Distribution of seed/ planting materials/ input/ others

Name of programme	No. of Programme	Total quantity distributed				No. of farmers benefitted								No. of other officials (except KVK) attended the programme	
		Seed (q)	Planting material (lakh)	Input (kg)	Other (kg/ No.)	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F		T
KKA-I															
KKA-II															

C. Livestock and Fishery related activities

Name of programm e	No. of Programm e	Activities performed				No. of farmers benefited								No. of other officials (except KVK) attended the programm e	
		No. of animals vaccinate d	No. of animals deworme d	Feed/ nutrient supplement s provided (kg)	Any other (Distributio n of animals/ birds/ fingerlings) [No.]	SC		ST		Other s		Total			
						M	F	M	F	M	F	M	F		T
KKA-I															
KKA-II															

D. Other activities

Name of programme	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										

Resource generation	Amount (Rs.)	Funding Agency (e.g. NHM/ATMA/RKVY/Manrega etc.)	Type of work
ATMA	75,000	ATMA	Refinement

Externally funded project	Amount (Rs.)	Funding Agency	Type of work
CRAP	8,20,900	Bihar Govt.	Technology demonstration
NICRA	9,00,500	ICAR	Technology demonstration

Special Programmes (PM Address/ Ag. Scientist Meet/ Consumer day/ Poshan Saptah/ 150 Birthday of Mahatma Gandhi/ Farm Act/ World Food day/ Mahila Kisan Diwas	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
28-01-2020- Hon'ble PM speech to farmers, scientist and students on occasion of Global Potato Conclave	KVK	0	10	3	3	1	0	4	2	30	7	28	12
20-06-2020, Launch of Garib Kalyan Rojgar Yojna	KVK	0	7	4	2	1	0	4	2	30	7	29	11
09-08-2020, Live telecast of Honourable PM Narendra Modi on Balram Jayanti programme for Kisan Samman Nidhi beneficiary farmers	KVK	0	10	1	1	1	1	4	2	10	2	16	6

11-09-2020- Poshan Saptah	KVK	3	10	0	8	0	2	0	10	0	20	0	40
10-09-2020, Live telecast of Honourable PM on the occasion of Foundation laying of various academic facilities and inauguration in Dr. Rajendra Prasad Central Agricultural University, Samastipur Bihar	KVK	0	10	3	2	2	0	9	2	14	0	28	4
02-10-2020, Celebration of 150 th Anniversary of Gandhi Jayanti	KVK	0	10	2	1	2	0	5	0	30	5	22	13
14-12-2020, Launch of Jal jeevan hariyali abhiyan	KVK	2	5	4	2	3	0	31	10	40	10	75	22
25-12-2020, Prime Minister of India addressing the farmers and releasing PM Kisan money to farmers	KVK	5	10	5	2	2	0	11	5	70	10	98	17
World Food Day (16th Oct.)	KVK	0	10	2	1	2	1	9	1	10	23	5	28
Mahila Kisan Diwas (15th Oct.)	KVK	0	10	0	2	0	3	0	8	9	20	9	33

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

12th Scientific Advisory Committee Meeting



Best KVK Award



Glimpses of Kisan Mela-2020





Glimpses of trainings



Glimpses of trainings under GaribKalyanRojgarYojna





Glimpses of Field Visit



Glimpses of PoshanMaah Celebration





Glimpses of OFT's



Glimpses of Live Telecast





Glimpses of KVK Activities



Online workshop/trainings



Glimpses of Swacchata Pakhwada



Glimpse of CRA activities


