Krishi Vigyan Kendra, Manjhi Saran

DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY, PUSA

ANNUAL REPORT

2022

Chief Editor : Dr. Abhay Kumar Singh

Editors : Dr. Saurabh Shankar Patel
: Dr. Jitendra Chandra Chandola
: Dr. Kanhaiya Lal Regar
: Dr. Ratul Moni Ram
: Dr. Vijay Kumar

PROFORMA FOR ANNUAL REPORT 2022 (1st January- 31st December 2022)

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 AgriculturalUniversity 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 2022**)

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	143600	16.07.2019	Permanent	Others
2.	Subject Matter Specialist	Dr. Saurabh Shankar Patel	S.M.S.	Post-Harvest Technology	63100	12.10.2018	Permanent	Others
3.	Subject Matter Specialist	Dr. Jitendra Chandra Chandola	S.M.S.	Horticulture (Pomology)	63100	13.12.2018	Permanent	SC
4.	Subject Matter Specialist	Dr. Kanaihiya Lal Regar	S.M.S.	Soil Science	61300	23.04.2019	Permanent	SC
5.	Subject Matter Specialist	Dr. Ratul Moni Ram	S.M.S.	Plant Protection	56100	08-03-2021	Permanent	SC
6.	Programme Assistant	Dr. Vijay Kumar	Programme Assistant	Soil Science	38700	28.11.2017	Permanent	OBC
7.	Accountant / Superintendent	Mr. Amit Anand	Assistant	Chemistry Honors	38700	20.10.2017	Permanent	Others
8.	Stenographer	Mr. Mirtunjay Kumar	Stenographer	Graduate (Physics)	26300	22.02.2018	Permanent	Other (Deputed to VC-Cell Pusa)
9.	Driver	Mr. Deepak Kumar	Tractor Driver	Graduate (History)	21700	27.02.2021	Permanent	Others
10.	Driver	Mr Umashakar Kumar	Jeep Driver	Graduate (History)	21700	27.02.2021	Permanent	OBC
11.	Supporting staff	Mr. Ravi Ranjan Kumar	Skill Supporting Staff	Graduate	18000	01.03.2021	Permanent	Others
12.	Supporting staff	Mr. Rakesh Kumar	Skill Supporting Staff	12th	18000	16.03.2021	Permanent	Others

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		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	DRPCAU

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 (3) 29.07.2021	(1)475833 (2)612036 (3) 612425	(1) 4137 (2) 980 (3) 689	(1) Needs Repairing (2) Newly Purchased (3) Newly purchased
Motorcycle (2 Nos)	August 2016	120000.00	(1) 46518 (2) 48227	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	Not Working	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	Good	ICAR
c. AV Aids				
Computer CPU, Monitor, printer	2010-11		Not Working	ICAR
Digital Camera	2008-09	24880	Not Working	ICAR
Panasonic Tough book	2018-19	21500	Not Working	Dr. RPCAU Pusa
HP Copier	2019-20	65400	Not Working	ICAR
HP Color Printer	2019-20	21998	Not Working	ICAR
Projector	2019-20	76140	Good	ICAR
Inverter	2020-21	10,000	Good	ICAR
Battery	2020-21	15,000	Good	ICAR
Battery	2020-21	14,995	Good	ICAR
Crompton Fan	2020-21	14,320	Good	ICAR
Acer Desktop	2020-21	1,19,000	Good	ICAR

D) Farm implements

Name of equipment	**Year of purchase**	**Cost (Rs.)**	**Present status**	**Source of fund**
Zero-till-ferti-seed drill-1	2011-12		Need repairing	ICAR
Connoweeder and Marker 10 each	2011-12		Good	ICAR
Bund Maker-2	2011-12		Good	ICAR
Furrow Irrigated Raised Bed Planter-1	2011-12		Need repairing	ICAR
Furrow Irrigated Raised Bed Planter-1	2011-12		Need repairing	ICAR
Power sprayer -6	2011-12		Good	ICAR
Rotavator-1	2011-12		Good	ICAR
Leveler-2	2011-12		Good	ICAR
Self-propelled Reaper-1	2012-13		Need repairing	ICAR
Cultivator-1	2012-13		Good	ICAR
Disc Harrow	2012-13		Good	ICAR
Zero-till-ferti-seed drill-1	2012-13		Need repairing	ICAR
Balance	2010-13		Good	ICAR
Power weeder	2019-20	21280	Good	ICAR
One-wheel garden trolley	2019-20	10,000	Good	ICAR
Brush cutter	2019-20	19,723	Good	ICAR
Cultivator	2020-21	27,776	Good	ICAR
Zero till seed cum fertilizer drill	2020-21	43,120	Good	ICAR
Mini daal mill	2020-21	90,000	Good	ICAR
Rotavator	2020-21	1,14,918	Good	ICAR
Multictop thresher	2020-21	1,28,800	Good	ICAR
Reversible MB plough	2020-21	1,14,240	Good	ICAR

Potato planter	2020-21	97,500	Good	ICAR
Power weeder	2020-21	47,600	Good	ICAR
Multicrop planter	2020-21	99,799	Good	ICAR
Self-propelled reaper cum binder	2020-21	5,20,000	Good	ICAR
Potato digger	2020-21	1,17,500	Good	ICAR
Self-propelled rice transplanter	2020-21	2,22,800	Good	ICAR
Tractor operated laser land leveler	2021-22		Good	ICAR
Drip Irrigation system (in farmers field)	2021-22	68,683		
Solar mounted boat	2021-22	842502	Good	ICAR
Tractor operated reaper cum binder	2021-22	342000	Good	ICAR
Hydraulic tractor trailer	2021-22	143400	Good	ICAR
Happy seeder	2021-22	143000	Good	ICAR
Tractor operated boom type sprayer	2021-22	-	Good	ICAR
Tractor drawn leveler	2021-22	-	Good	ICAR
Power tiller with common attachment	2021-22	-	Good	ICAR
Disc plough	2021-22	-	Good	ICAR
Rice-wheat seeder (10 set)	2021-22	-	Good	ICAR
Zero-till seed cum fertilizer	2021-22	72000	Good	ICAR
Happy seeder 10 tynes	2021-22	140000	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.	18-08-2022	28	Conduct more numbers of Field days on proven technologies under Agri And Allied discipline in-order to showcase the technologies at farmer's field. However, Zero tillage technology should be made aware practically through hands on training programmes by SMS Ag. Engg. for wide scale adoption in different villages of Saran.	Conducted 06 nos. of Field day on Agri and allied discipline. Resource conservation Technology including Zero tillage were exposed to the farming clientele under ON campus training program organized.	-
			Prepare Training Calendar of KVK for the upcoming period of 2023-24.	Training Calendar of KVK for the period 2023-24 prepared and submitted.	-
			Promotion of green manuring technology through training and demonstration for the improvement soil health having high pH soil affected villages of Saran district.	SMS Soil science conducted several extension activities and capacity building program for sensitization of promotion of green manuring which will definitely tend	-

				to improve the soil pH.	
			Promotion of Nutri-cereals and millets of traditional importance of Saran district through training and demonstration in different villages of Saran district.	Training were conducted to sensitize the promotion of Nutri cereals of traditional importance. The demonstration of millets were also conducted at farmers holding and at KVK field.	-
			Resource persons form development departments of Saran District to be invited under the training programme conducted For Rural Youth in order to have information on available Schemes of Agri and allied discipline needs to the trainees.	Travelling veterinary officer from Manjhi and Block Agricultural officer were invited to deliver the scheme available of their departments to the trainees under Extension functionaries training -program organized at KVK premises.	-
			Small tools mechanization of agriculture should be demonstrated on regular basis and Paddy trans-planter should be popularizing through KVK.	SMS Ag Engg. demonstrated small tools mechanization of agriculture in CRA and CRA villages thereby sensitize the farming clientele to avail the subsidy scheme of Agriculture department to procure at their farm holding for sustainability and holistic developments through the introduction of farm implements.	-
			Soil testing demonstration, INM training needs to be planned together for effective	Around 1200 numbers of soil samples were collected and a total	-

			implementation at field levels.	of 250 soil samples were analyzed. Soil health card were distributed to the beneficiaries during World Soil day organized at KVK on 05th December, 2022.	
			Training programmes on different thematic areas of Agri and Allied discipline / farmer-scientist interaction programmes can be planned at KVK Saran by the Scientist for which financial support may be obtained from ATMA Saran	The Head and SMSs of KVK Saran visited to delivered lectures in the trainings, Gosthi and Farmeres and Scientist interaction program on different thematic area organized by ATMA from time to time during the reporting period.	-
			Provision of rewarding to the clientele performing well in their respective fields of Agri and allied discipline needs to be practiced by KVK.	Four Farmers/ farm women were rewarded by KVK saran in agri and allied discipline.	-
			Vertical farming needs to be propagated among farmers through training programme for expansion of this technology in urban and Peri-urban areas of Saran District.	02 Nos. of training program on vertical farming were conducted amongst the farm women and Rural youth wherein the practical session on hands on training were conducted to improve their skill in developing vertical farming in peri-urban areas.	-
			Project on Integrated farming system to be submitted to DDM, NABARD, Saran.	The project on IFS prepared by the KVK team and will be submitted to the DDM NABARD shortly so that will be taken up in the period 2023-24	-
			Training on Bee keeping management for rural youth	02 Nos. of Rural Youth training program on Apiary	-

			of Saran district to be conducted.	of 3 days of duration have been conducted at KVK benefitting more than 50 participants from different villages of saran district.	
			Root stock of mango to be developed at KVK Saran	Initiated by the SMS Horticulture for the development of root stock of mango.	-
			Introduction of high valued crops under FLD programme	Different high valued and cash crops under horticulture discipline were introduced in KVK and farmer's holding.	-

** Salient recommendation of SAC in bullet form*

Attach a copy of SAC proceedings along with list of participants

List of Participants in 15th SAC meeting:

Sl. No.	Name	Designation
1.	Dr. M. S. Kundu,	Director Extension Education, DRPCAU, Pusa Cum-Chairman, SAC.
2.	Smt. Anshu Mala	DDM, NABARD, Saran
3.	Sri. Shyam Bihari Singh	DAO, Saran
4.	Sri Pradeep Kumar	LDM, Saran
5.	Smt. Kumari Sheela	GM, DIC, Saran
6.	Sri. Ankit Shrivastava	Fisheries Extension Officer, Saran
7.	Sri. Niraj Kumar Gupta	Industry Extension Officer, DIC, Saran
8.	Sri Wazarafaullah	Programme Officer, MGNREGA, Manjhi
9.	Dr. Mani Kumari Karmika	TVO Manjhi, Saran
10.	Smt. Reena Kumari	ICDS-LS, Saran
11.	Sri Anirudh Kumar Singh	Agriculture Co-ordinator, Saran, Chhapra
12.	Sri Sanjay Kumar	BPM, Jeevika, Saran
13.	Sri Shashi Kumar	IFFCO, Saran
14.	Sri Amit Kumar Pandey	BHO, Manjhi
15.	Sri Sachin Pratap Singh	District Field Officer, IFFCO, Saran
16.	Smt. Sangita Singh (Baby Singh)	Progressive Farm women

17.	Sri Chaman Jee	Jeevika Livlihood Specialists
18.	Smt. Sunita Prasad	Progressive Farm women
19.	Sri Satyandra Prasad	Progressive Farmer
20.	Sri Rajbali Ram	Progressive Farmer
21.	Sri Shatrughan Yadav	Progressive Farmer
22.	Sri Satyanarayan Yadav	Progressive Farmer
23.	Dr. Ratul Moni Ram	SMS, Entomology
24.	Dr. Saurabh Shankar Patel	SMS, PHT
25.	Dr. Kanhaiya Lal Regar	SMS, Soil Science
26.	Dr. Vijay Kumar	Programme Assistant
27.	Mr. Amit Anand	Assistant
28.	Dr. Abhay Kumar Singh	Member Secretary, SAC and Senior Scientist & Head, KVK Saran

2.a. District level data on agriculture, livestock and farming situation (2022)

<table>
<tr><th>Sl. No.</th><th>Item</th><th>Information</th></tr>
<tr><td>1</td><td>Major Farming system/enterprise</td><td>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-Rapseed-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.
<table>
<tr><th>S. No</th><th>Farming system/enterprise</th></tr>
<tr><td>1.</td><td>Crop Production + Animal Husbandry</td></tr>
<tr><td>2.</td><td>Crop Production</td></tr>
<tr><td>3.</td><td>Animal Husbandry</td></tr>
<tr><td>4.</td><td>Crop Production +Fishery</td></tr>
<tr><td>5.</td><td>Crop Production +Poultry</td></tr>
<tr><td>6.</td><td>Crop Production +Vegetable Production</td></tr>
<tr><td>7.</td><td>Crop Production +Fruit Production</td></tr>
<tr><td>8.</td><td>Poultry</td></tr>
</table>
</td></tr>
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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 situation	**Agro ecological situation**		**Characteristics**
		AES I	Upland rain fed saline lands	Alluvial saline soils with Poor drainage and undulating 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**		**Total**	
			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
		Pulses	50512	7	145882.8	12.6	643044	9.8

	fruits and others	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	

		Month	Temperature ^{0} C		Relative Humidity (%)		Rainfall (mm)
			Maximum	Minimum	Maximum	Minimum	
6	Mean yearly temperature, rainfall, humidity of the district	January 2022	23.80	7.19	93.60	47.89	0.00
		February 2022	26.51	11.78	84.78	31.91	0.00
		March 2022	35.96	18.37	65.30	20.71	0.00
		April 2022	39.65	22.61	52.55	12.99	0.00
		May 2022	35.09	25.23	80.98	53.29	269.75
		June 2022	35.36	27.66	87.35	48.41	544.75
		July 2022	34.05	27.86	88.83	68.00	194.25
		August 2022	32.90	26.96	90.61	79.24	54.50
		September 2022	32.73	26.36	91.67	72.74	24.50
		October 2022	33.05	22.05	92.09	55.30	251.00
		November 2022	31.17	15.00	91.36	30.91	0.00
		December 2022	26.78	10.80	98.20	98.70	6.70

		Live stock	Number	Live stock	Number
7	Production of major livestock products like milk, egg, meat etc.	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 (2022)

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 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, IPM in 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.	Chapra Sadar	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.	Chapra Sadar	Dumri/ Newaji Tola	Paddy, wheat, maize, potato, mustard, Lentil, Gram	High dependence on chemical fertilizer and insecticides and pesticides	IPM and INM in cereals, pulses and oilseeds
16.	Sonpur	Sahpur Diara, Pahleja	Vegetables	High cost of cultivation, high fertilizer application	IPM and INM in vegetables

2. c. Details of village adoption programme:

Name of the villages adopted by Sr. Scientist & Head and SMS (in year 2022) 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, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Darhara	Manjhi	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Darihara	Dariyapur	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Sitalpur	Manjhi	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Affaur	Nagra	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
SitabDiara	Revilganj	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Majhawalia	Jalalpur	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Ramnagar	Jalalpur	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits

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

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, Natural Farming and vermicomposting.
5.	Promotion of horticulture for making the rural youth self-employed.
6.	Women Empowerment through agri and allied technological interventions for sustainable income generation activities.
7.	Promotion of Climate Resilient Technology
8.	Creation of Job opportunities for landless labours through skill development
9.	Development of livestock and pond based IFS model at farmer's holding.
10.	Promotion of green fodder those enabling multicuts at farmers holding.

3. TECHNICAL ACHIEVEMENTS

3.1. Summary details of target and achievement of mandatory activities by KVK during the year 2022

OFT												FLD										
No. of technologies tested:												No. of technologies demonstrated:										
Number of OFTs		Number of farmers										Number of FLDs		Number of farmers								
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement							
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
10	10	75	5	0	0	0	70	0	75	0	75	12	12	120	14	0	0	0	106	0	120	0	120

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
80	80	2400	292	68	0	0	1837	132	2129	200	2329	1100	1101	20000	2200	314	0	0	15768	3693	17968	4007	21975

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

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
400	410	0.50	0.30

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
0	0	0.00250	0.00254

* Give no. only in case of fish fingerling

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	1	-	1	-	-	-	-
Seminar/conference/ symposia papers	-	-	-	-	-	-	-
Books	-	-	-	-	-	-	-
-Bulletins	1						
News letter	-	-	-	-	-	-	-
Popular Articles	2	-	-	-	-	-	-
Book Chapter	3	-	-	-	-	-	-
Extension Pamphlets/ literature	-	-	-	-	-	-	-
Technical reports	1	-	-	-	-	-	-
Electronic Publication (CD/DVD etc)	-	-	-	-	-	-	-
TOTAL	8	-	-	-	-	-	-

3.1.1 Achievements on technologies assessed and refined

OFT (All discipline)

OFT-01 (Agricultural Engineering)

1.	Title of On farm Trial	Assessment of different packaging materials on the shelf life of oyster mushroom
2.	Problem diagnosed	Mushroom is now becoming popular vegetable in India and it is very perishable due to their high aspiration rate.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmer's Practice (FP): No packaging Technology option 1: Suitable punnet (wash in plain water, pre-treatment with 0.05 % KMS Technology option 2: Biodegradable LDPE bag (40-60 micron/100-150 gauge) wash in plain water, pre-treatment with 0.05 % KMS)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	G. B. Pant University of Agriculture and Technology, Pantnagar, UK
5.	Production system and thematic area	Value addition
6.	Performance of the Technology with performance indicators	• Colour • Rehydration ratio

		• Sensory evaluation
7.	Final recommendation for micro level situation	NA
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	• Field visit • Farmers' Interaction and feedback

OFT-02 (Agricultural Engineering)

1.	Title of On farm Trial	Assessment of Happy Seeder for wheat sowing under crop residue management
2.	Problem diagnosed	
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice: Broadcasting (in tilled condition) Technology option 1: Sowing of Wheat by Happy seeder incorporating crop residue Technology option 2: Removal of crop residue and sowing by zero till drill
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	DRPCAU, Pusa
5.	Production system and thematic area	Rabi-2022, Crop residue management
6.	Performance of the Technology with performance indicators	Field efficiency, fuel consumption, Yield attributing characteristics, BC Ratio
7.	Final recommendation for micro-level situation	NA
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	• Field visit • Farmers' Interaction and feedback


OFT-03 (Horticulture)

1.	Title of On farm Trial	Regulation of bearing potential in litchi (*Litchi chinensis*) through girdling of primary branches in Saran district of Bihar
2.	Problem diagnosed	Litchi (*Litchi chinensis*) is a major fruit crop of district Saran. But the poor quality of flowering, and fruiting behaviour 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 the last week of august to the second week of September to suppress vegetative growth before flowering in litchi. Therefore, it is required to produce more flowering panicles, 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 (Mention either Assessed or Refined)	Farmers Practice: No Girdling Technology 1: Circular girdling 2mm on 50% Primary branches during 1st week of September Technology 2: Circular girdling 3mm on 50% Primary branches during 1st week of September
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	National Research Center on Litchi, Muzaffarpur, Bihar
5.	Production system and thematic area	Agri- Horti System
6.	Performance of the Technology with performance indicators	1-Flowering induced (%) 2- Days to flowering after girdling 3- Fruits/panicles 4- fruit drop and cracking(%) 5-Fruit yield(kg/plant) 6- B: C ratio
7.	Final recommendation for micro-level situation	Circular girdling 2mm on 50% Primary branches during 1st week of September is recommended
8.	Constraints identified and feedback for research	NA

9.	Process of farmers participation and their reaction	• Diagnostic field visit, one-to one interaction with farmers, supply of reading materials

Result:
The results indicated that significantly higher fruits per panicles (46.87), fruit yield (37.28/ plant), benefit cost ratio (1.57) and lower fruit drop (44.62) and fruit cracking (5.90) were recorded in TO1 (Circular girdling 2 mm on 50% Primary branches) followed TO2.

Technological Option (TO)	**Flowering induced (%)**	**Days to flowering after girdling**	**Fruits/ panicle**	**fruit drop (%)**	**fruit cracking (%)**	**Fruit Yield (Kg/ plant)**	**Gross Cost (Rs.)**	**Gross Return (Rs.)**	**Net Return (Rs)**	**B:C Ratio**
FP : No Girdling	41.06	154.12	26.875	57.75	15.76	9.777	523	586.62	63.62	1.12
TO1 : Circular girdling 2mm on 50% Primary branches	75.11	160.87	46.875	44.62	5.90	37.285	1423	2237.10	814.10	1.57
TO2 : Circular girdling 3mm on 50% Primary branches	82.32	166.87	29.87	45.27	6.31	31.24	1423	1874.28	451.28	1.32
CD (0.05)	12.00	7.00	9.00	1.60	1.08	3.90	192.60	1245.60	389.50	0.29

OFT-04 (Horticulture)

1.	Title of On farm Trial	Assessment of proper doses of Paclobutrazol in mitigating irregular bearing in mango
2.	Problem diagnosed	Mango is a major fruit crop of district Saran. But the poor quality of flowering, yield and alternate bearing behaviour restricts its cultivation. Application of Paclobutrazol @ 4g a.i. and 2g a.i./ metre of canopy diameter should be done during the last week of August to the second week of September to suppress vegetative growth before flowering in Mango. Therefore, it is required to produce 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 (Mention either Assessed or Refined)	Farmers Practice: No use of Paclobutrazol Technology 1: Paclobutrazol @ 1.0 g a. i./ m of the effective canopy (30-45g) in soil. Technology 2: Paclobutrazol @ 1.5 g a. i./ m of the effective canopy (30-45g) in soil. Note: 1. Recording of flowering behaviour in the previous year. 2. Balanced nutrition after the harvest of crops is a prerequisite.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	GBPUAT., Pantnagar
5.	Production system and thematic area	Agri- Horti System
6.	Performance of the Technology with performance indicators	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
7.	Final recommendation for micro level situation	Paclobutrazol @ 1.0 g a. i./ m of effective canopy (30-45g) in soil.
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	Diagnostic field visit, one-to one interaction with farmers, supply of reading materials

Result

Mango is a major fruit crop of district Saran. But the poor quality of flowring, yield and alternate bearing behavior restricts its cultivation. Application of Paclobutrazol @ 1g a.i. and 1.5g a.i./ metre of canopy diameter should be done during last week of august to second week of sepetember 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.

The results indicated that significantly higher flowering shoots (86.9 %) and fruit yield (75.05 kg/plant) was recorded in TO_1 (Paclobutrazol @ 1.0 g a. i./ m of effective canopy (30-45g) in soil.) followed by TO_2.(Table 1).

Technological Option (TO)	Vegetative shoots (%)	Flush length (cm)	Flowering shoots (%)	Panicle length (cm)	Fruit yield(kg/plant)	B:C Ratio
FP : No use of Paclobutrazol	5.8	15.9	80.98	21.85	55.78	1:1.36
Tech. 1 : Paclobutrazol @ 1.0 g a. i./ m of effective	7.2	16.6	86.9	24.47	75.05	1:1.99

canopy (30-45g) in soil.						
Tech. 2 : Paclobutrazol @ 1.5 g a. i./ m of effective canopy (30-45g) in soil	6.0	16.1	85.9	22.15	74.45	1:1.98
CD	0.86	NS	NS	1.89	26.34	0.06

OFT-05 (Horticulture)

1.	Title of On farm Trial	Ex-situ residue management in potato cultivation
2.	Problem diagnosed	Moisture loss is one of an important constraint in obtaining high potato yield.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice: Sowing in ridge and furrow method Technology 1: Sowing of Potato with FYM and Paddy straw (15cm) Technology 2: Sowing of Potato with FYM and Water hyacinth (15cm) (In TO1 and TO2 foliar spray with 10:26:26 N:P:K as basal dose, 45 days after sowing spray with 19:19:19 N:P:K and third spray with 13:0:45 N:P:K)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIVR, Varanasi
5.	Production system and thematic area	Agri- Horti System
6.	Performance of the Technology with performance indicators	1-Germination (%) 2- Growth performance (visual) 3- Disease incidence 4- Weed population 5- Tuber yield 6-Economics 7- B: C ratio
7.	Final recommendation for micro level situation	NA
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	Diagnostic field visit, one-to one interaction with farmers, supply of reading materials

OFT-06 (Plant Protection)

1.	Title of On farm Trial	**Eco-friendly management practices to control fruit fly in cucurbits**
2.	Problem diagnosed	Yield loss due to constant attack of fruit flies in cucurbits. Fruit fly damage is the major limiting factor in obtaining good quality fruits and high yield
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers practice: Spray of any pesticides as per their knowledge Technology option 1**:** Mix Ethyl Alcohol- 60 ml + Cue lure (P-Acetoxyl butanone-2)- 40 ml + Malathion/ DDVP- 20 ml (*i.e.*, 6:4:2) @ 10 traps/ha

		Technology option 2: Bait Application Technique (BAT) spray liquid of 0.1% insecticide (malathion) and 10% Jaggery or 10% ripe banana or erect cue lure (Para Pheromone trap) @ 3 per acre to attract and trap male fruit flies
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR, Bengaluru
5.	Production system and thematic area	Integrated Pest Management
6.	Performance of the Technology with performance indicators	• Percent fruit damage • Percent fruit infestation • No of insects attracted per trap • B:C ratio • Yield loss (t/ha)
7.	Final recommendation for micro-level situation	NA
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	Awareness, Training, Field visit, Farmers' interaction

OFT-07 (Plant Protection)

1.	Title of On farm Trial	**Assessment of fungicides for the management of Sheath blight of Rice**
2.	Problem diagnosed	Low yield of paddy due to attack of sheath blight disease
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers practice: Spray of hexaconazole 5 EC Technology option 1: Spray of Propiconazole 13.9% + Difenoconazole 13.9% EC @500ml/ha Technology option 2 : Spray of Thifluzamide 24 SC @ 1ml /liter of water (45 days after transplanting)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Annamalai University, Tamil Nadu
5.	Production system and thematic area	Integrated disease management
6.	Performance of the Technology with performance indicators	• Disease Incidence • Disease severity • Yield (q/ha) • B:C ratio
7.	Final recommendation for micro level situation	NA
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	Training, Field visit, Kisan Goshti

OFT 08: Soil Science

Title	Effect of boron application on yield of mustard
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.
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
Source of technology	BHU, Varanasi & Directorate of Rapeseed - Mustard Research, Bharatpur
Replication	7
Production System & Thematic area	Micronutrient deficiency in crops
Critical input	Seed, NPK fertilizer and Borax
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
Process of farmers participation and their reaction	1. Field visit 2. Face to face conversation

Result:

Table 1: Effect of boron application on yield and yield attributes of mustard

Technological options	**No. of siliqua $plant^{-1}$**	**Length of siliqua (cm)**	**Grain Yield (q ha^{-1})**
FP	185.00	4.25	11.56
TO- I	206.20	4.53	15.21
TO- II	215.10	4.71	15.95

Table 2: Effect of boron application on soil available nutrients in mustard

Technological options	**pH**	**EC (dS m^{-1})**	**OC (%)**	**Avail. N (kg ha^{-1})**	**Avail. P (kg ha^{-1})**	**Avail. K (kg ha^{-1})**	**Avail. B (mg kg^{-1})**
FP	8.40	0.36	0.37	216.1	14.1	141.0	0.35
TO- I	8.29	0.44	0.43	234.0	17.8	158.9	0.53
TO- II	8.25	0.48	0.46	238.2	18.3	162.0	0.51
Initial soil test value	8.43	0.35	0.38	211.3	12.8	138.3	0.36

Table 3: Effect of boron application on economics of mustard cultivation

Technological options	Cost of cultivation (Rs ha^{-1})	Gross return (Rs ha^{-1})	Net return (Rs ha^{-1})	B: C Ratio
FP	35840	58378.0	22538.0	1.63
TO- I	38515	76810.5	38295.5	1.99
TO- II	38100	80547.5	42447.5	2.11

Conclusion: Results revealed that soil application of B @ 1.0 kg ha^{-1} + 0.25 % Borax as foliar spray along with RDF (TO- II) showed higher yield attributes, yield, soil available nutrients, Net return and BC ratio over soil application of B @ 1.5 kg ha^{-1} along with RDF (TO- I) and Farmer's Practice (FP).

View of OFT Soil Science on "Effect of boron application on yield of mustard"

OFT: 09 Discipline: Soil Science

Title	**Improvement of Nitrogen use efficiency in wheat**
Problem diagnose	Excessive use of chemical fertilizer and spiraling price of urea leads to increase in cost of cultivation.
Details of Technologies selected for assessment/refinement	**Farmer Practice**: RDF (120:60:40) Kg/ha
	Technological option 1: 50% of RDN & 100% PK + Nano urea @4ml/lt. water (Single spray at pre flowering stage)

	Technological Option 2: 50% of RDN & 100% PK + 2 sprays of Nano Urea at (35 DAS) and (60-65 DAS) @ 4 ml/lt water
Source of technology	OFT Finalization Workshop 2022 held at BAU, Sabour from 01-03 Sep., 2022
Replication	7
Production System & Thematic area	Rice- wheat system & Nutrient use efficiency
Critical input	Seed, Urea, DAP, MOP and Nano urea
Performance of Technology with performance indicator	Soil data before and after (pH, EC, OC, NPK,), Yield data, No. of effective tillers/m^2,1000 grain wt., Panicle wt., Grain and Straw yield and Economics
Process of farmers participation and their reaction	1. Field visit. 2. Farmers Interaction
Result	Awaited

OFT: 10 Discipline: Soil Science

Title	**Diversification of rice-based cropping systems.**
Problem diagnose	Low profitability of existing cropping system.
Details of Technologies selected for assessment/refinement	**Farmer Practice**:Rice- Wheat (prominent cropping system of district)
	Technological Option1: Rice- Maize + Potato (*Rabi*)
	Technological Option2: Rice-Maize + Vegetable Pea (*Rabi*)
	Technological Option3: Rice- wheat – Green gram. (*Summer*)

Source of technology	OFT Finalization Workshop 2022 held at BAU, Sabour from 01-03 Sep., 2022
Replication	7
Production System & Thematic area	Crop diversification
Critical input	Seed (Rice, Wheat, Vegetable pea and Green gram)
Performance of Technology with performance indicator	Soil data before and after (pH, EC, OC, NPK,), rice equivalent yield q/ha of all crops, sole crop and intercropping, cost of cultivation.
Process of farmers participation and their reaction	1. Field visit. 2. Farmers Interaction.
Result	Awaited

3.1.2 Technology Assessed by KVK (Discipline wise)

	Technologies assessed under various crops by KVKs (Crop Production)			
	Thematic areas	Number of the technologies (Technology Interventions)	No. of trials	No. of Locations
1	Integrated Nutrient Management	1	7	7

2	Varietal Evaluation	0	0	0
3	Integrated Pest Management	1	8	8
4	Integrated Crop Management	2	16	16
5	Integrated Disease Management	0	0	0
6	Small Scale Income Generation Enterprises	0	0	0
7	Weed Management	0	0	0
8	Resource Conservation Technology	1	7	7
9	Farm Machineries	0	0	0
10	Integrated Farming System	0	0	0
11	Seed / Plant production	0	0	0
12	Post Harvest Technology / Value addition	1	7	7
13	Drudgery Reduction	1	7	7
14	Storage Technique	0	0	0
15	Others (Pl. specify)	0	0	0
16	Cropping Systems	1	8	8
17	Farm Mechanization	1	7	7
18	Others	0	0	0
	Total	**9**	**67**	**67**
	Technologies assessed under livestock by KVKs			
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
1	Disease Management	0	0	0
2	Evaluation of Breeds	0	0	0
3	Feed and Fodder management	0	0	0
4	Nutrition Management	0	0	0
5	Production and Management	0	0	0
6	Processing and value addition	0	0	0
7	Others (Pl. specify)	0	0	0
	Total	**0**	**0**	**0**
	Technologies assessed under various enterprises by KVKs			
	Thematic areas	No. of technologies (Technology	No. of trials	No. of locations

		Interventions)		
1	Drudgery reduction	0	0	0
2	Entrepreneurship Development	0	0	0
3	Health and nutrition	0	0	0
4	Processing and value addition	0	0	0
5	Energy conservation	0	0	0
6	Small-scale income generation	0	0	0
7	Storage techniques	0	0	0
8	Household food security	0	0	0
9	Organic farming	0	0	0
10	Agroforestry management	0	0	0
11	Mechanization	0	0	0
12	Resource conservation technology	0	0	0
13	Value Addition	0	0	0
14	Others	0	0	0
	Total	**0**	**0**	**0**
	T**echnologies assessed under various enterprises for women empowerment**			
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
1	Drudgery Reduction	0	0	0
2	Entrepreneurship Development	0	0	0
3	Health and Nutrition	0	0	0
4	Value Addition	0	0	0
5	Others	0	0	0
	Total	**0**	**0**	**0**

3.2 **Achievements of Frontline Demonstrations during 2022**

A. Details of FLDs conducted during the year 2022

Sl.No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha/nos)		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.	Maize	Productivity	Shaktimaan-5	02	02	0	0	0	0	10	0	10	0	10	-

		enhancement													
2.	Wheat	RCT	HD-2967	02	02	2	0	0	0	8	0	10	0	10	-
3.	Azolla	Productivity Enhancement of animals	Feed supplements	10	10	1	0	1	0	8	0	10	0	10	-
4.	Dairy Animals	Milk production	Green fodder (Berseem, hybrid Napier and fodder oat) for dairy animals	10	10	0	0	2	0	8	0	10	0	10	-
5.	Fodder production		Bersem, oats	05	05	1	0	0	0	4	0	5	0	5	-
6.	Feed supplement		Mineral mixture	20	20	2	1	2	0	15	0	19	1	20	-
7.	Mango	IPM	IPM (Fruit fly trap) in Mango	02	02	0	0	2	0	8	0	10	0	10	-
8.	Mushroom	Post-harvest management	Performance of pre-treatment agent (KMS) for fresh button mushroom	10	10	0	0	2	0	8	0	10	0	10	-
9.	Milk	Post-harvest management	Adulteration kit for milk (urea & sucrose)	10	10	0	0	3	0	7	0	10	0	10	-
10.	Papaya	Productivity enhancement	*Papaya (Red lady / Pusa Nanha*) *Moringa* (PKM-1/ PKM-2)	0.4	0.4	0	0	2	0	8	0	10	0	10	-
11.	Elephant foot Yam	Productivity enhancement	*Elephant foot yam (Gajendra)*	0.2	0.2	0	0	2	0	8	0	10	0	10	-
12.	Turmeric	Productivity enhancement	*Turmeric (R. Sonali / R. Sonia)*	0.2	0.2	0	0	2	0	8	0	10	0	10	-

Details of farming situation

Sl. No.	Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)				Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
					N	P_2O_5	K_2O	OC					
1.	-	-	-	-	-	-	-	-	-	-	-	-	-

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
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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

Horticultural crops (separately Fruit, Vegetables, Flower, Medicinal and aromatics, etc.)

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
Papaya	Introduction of high yielding variety (Red Leady)	10	10	39.50	35.10	12.54	-	-	3256870	122450.00	89881.30	2.76	334527.70	108810.00	75357.30	2.25
Elephant foot Yam	Introduction of high yielding variety (Gagendra)	10	10	115.50	91.60	26.09	-	-	6554050	219450.00	153909.50	2.35	706855.50	174040.00	103354.50	1.46
Turmeric	Introduction of high Curcumin content variety (Rajendra Sonia)	10	10	85.50	65.40	30.73	-	-	395427.70	179550.00	140007.30	3.54	555425.50	202740.00	147197.50	2.65

* 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 hybrid varieties

Crop	Name of the Hybrid	No. of Farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals	-	-	-	-	-	-	-	-	-	-
Bajra	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-
Paddy	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
Total 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	-	-	-	-	-	-	-	-	-	-

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	Green fodder mangement	Promotion of Hybrid Napier	03	03	110	40	175	No. of cuttings : 8; Green fodder yield: 110 q/ha	No. of cuttings : 4; Green fodder yield: 40 q/ha	3800	12600	8800	3.32	1200	4120	2920	2.43
Dairy	Feed management	Promotion of Azolla as a unconventional source of feed amongst the dairy animal	20	20	7.0 lt	6.4lt	22.03	-	-	24000	75600	51600	3.15	21900	64200	42300	2.93
Lactating Cattle	Nutrition Management	Mineral supplementation	25	25nos. of lactating Dairy Cattle	Milk yield	Milk yield	12.5	-	-	14400	28500	14100	1.98	9250	16900	7650	1.83
Lactating Buffalo	Nutrition management	Mineral supplementation	20	20nos. of lactating buffaloes	Milk yield	Milk yield	13.3	-	-	16920	32610	15690	1.93	13500	24900	11400	1.84

* 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	Vertical farming	10	-	-	-
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			
Happy Seeder	Wheat	Sowing of Wheat with happy seeder	10	1	2000	4500	55.55	5	Rs 8000/ha
Zero-tillage	Wheat	Sowing of Wheat with zero tillage	10	1	3000	4500	33.33	5	Rs 6000/ha
Potato Transplanter	Potato	Sowing of potato through potato transplanter	5	0.5	5000	9000	44.44	12	Rs 15000/ha

* 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

Farm Machinery

Category	Name of the implement / Equipment / Tool	Crop (if applicable)	No. of Technologies	No. of Demos	Area (ha)
Sowing and planting tools and machineries					
1.	Zero tillage	Rice, Wheat, Pulses, Oilseed	4	300	140
2.	Happy Seeder	Rice, Wheat	2	40	20
3.	Potato transplanter	Potato	1	10	2
4.	Raised bed transplanter	Maize, Oilseed, Wheat, Pulses	4	20	10
	Total		**11**		
Intercultural operation tools and machineries					
5.	Grubber	All vegetables and cereals crops	7	100	20
6.	Power weeder	All vegetables, cereals crops and fruit orchards	4	1	5
Irrigation management tools and machineries					
7.	Rain gun	All vegetables and cereals crops	1	10	4
Plant protection tools and machineries					
8.	Knapsack Sprayer	All vegetables and cereals crops	4	10	8
9.	Tractor mounted sprayer	All vegetables and cereals crops	5	3	1
Harvesting tools and machineries					
10.	Self propelled reaper cum binder	Rice, Wheat	2	10	5
Postharvest processing tools and machineries					
11.	Winnower	All cereals crops	3	10	2
Total mechanization tools and machineries					
Total			**37**	**514**	**217**
Others					
Total					
Grand Total			**37**	**514**	**217**

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Zero Tillage in Wheat	Happy with the technology, it will save the labour cost and no need for primary tillage
2	AWD in Rice	Saves water and increase the yield of rice
3	Papaya	Gives extra income

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	23-02-2022, 28-12-2022	4	130	-
2.	Farmers Training	-	12	130	-
3.	Media coverage	-	3	-	-
4.	Training for extension functionaries	-	-	-	-

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif, Rabi and summer 2022

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha) 7 years	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1.	Chickpea	Local	15.2	18	17.4	20	RVG-202 +HYV + Line Sowing + Seed Treatment with Rhizobium +PSB	25	10	19.9	18.5	19.2	6.67	10.34	-4.0
2.	Lentil	Local	12.1	13	12.7	18	IPL-316 +HYV + Line Sowing + Seed Treatment with Rhizobium +PSB	50	20	16.2	14.4	15.3	17.69	20.47	-15.0
3.	Field pea	Local	10.3	10.8	10.6	28	HUDP-15 +HYV + Line Sowing + Seed Treatment with Rhizobium +PSB	25	10	15.3	13.1	14.2	31.48	33.96	-49.3

4.	Blackgram	Local	6.3	8.5	10.6	10	IPU 13-01 and IPU 11-02 +HYV + Line Sowing + Seed Treatment with Rhizobium +PSB	25	10	9.6	8.0	8.8	3.53	-16.98	-12.00
5.	Arhar	Local					IPA-203 and R. Arhar-1 +HYV + Line Sowing + Seed Treatment with Rhizobium +PSB	50	20			Crop on harvesting stage			
6.	Rapeseed& Mustard	Hybrid	11.8	14.15	14.04	16	R.Sufalam +HYV + Line Sowing + Seed Treatment with Azotobector +PSB	50	20	16.3	14.1	15.2	7.42	8.26	-5.00
7.	Linseed	Local	10.3	12.12	12.54	13	Sabour Tisi-1 +HYV + Line Sowing + Seed Treatment with Azotobector +PSB	25	10	13.3	11.9	12.6	3.96	0.48	-3.08
8.	Sesame (Summer)	Local	4.62	5.5	5.82	6.35	Krishna +HYV + Line Sowing + Seed Treatment with Azotobector +PSB	50	20	6.33	5.47	5.9	6.77	1.35	-7.63
9.	Sesame (Kharif)	Local	3.9	4.95	5.1	7.5	RT-346 +HYV + Line Sowing + Seed Treatment with Azotobector +PSB	50	20	6.1	4.5	5.3	7.07	3.92	-29.33

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost	Gross return	Net Return	B:C ratio	Gross Cost	Gross return	Net Return	B:C ratio

		(Rs/ha)	(Rs/ha)	(Rs/ha)		(Rs/ha)	(Rs/ha)	(Rs/ha)	
1.	Chickpea- RVG-202 +HYV + Line Sowing + Seed Treatment with Rhizobium+PSB	58886	79496	20610	1.35	52851	100416	47565	1.90
2.	Lentil- IPL-316 +HYV + Line Sowing + Seed Treatment with Rhizobium+PSB	47536	66550	19014	1.40	45242	84150	38908	1.86
3.	Field pea- HUDP-15 +HYV + Line Sowing + Seed Treatment with Rhizobium+PSB	34106	51500	17394	1.51	36410	71000	34590	1.95
4.	Black gram- IPU 13-01 and IPU 11-02 +HYV + Line Sowing + Seed Treatment with Rhizobium+PSB	28761	39690	10929	1.38	30972	55440	24468	1.79
5.	Arhar- IPA-203 and R. Arhar-1 +HYV + Line Sowing + Seed Treatment with Rhizobium+PSB	Crop on harvesting stage							
6.	Rapeseed & Mustard- R.Sufalam +HYV + Line Sowing + Seed Treatment with Azotobector+PSB	42871	59590	16719	1.39	39772	76760	36988	1.93
7.	Linseed- Sabour Tisi-1 +HYV + Line Sowing + Seed Treatment with Azotobector+PSB	42869	76735	33866	1.79	38004	93870	55866	2.47
8.	Summer Sesame- Krishna +HYV + Line Sowing + Seed Treatment with Azotobector+PSB	23773	33758	9985	1.42	24143	41285	17142	1.71
9.	Sesame (Kharif)- RT-346 +HYV + Line Sowing + Seed Treatment with Azotobector+PSB	20773	30537	9764	1.47	24556	41499	16943	1.69

C. Socio-economic impact parameters 2022

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowin	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)

					g (Kg)			
1.	Chickpea - RVG-202	18742	16742	52.3	2000	0	For agricultural inputs, food and feed, school fees of children and social obligations	
2	Lentil-IPL-316	30157	25907	55	4250	0	For agricultural inputs, food and feed, school fees of children and social obligations	
3	Field pea-HUDP-15	13817	12067	50	1750	0	For agricultural inputs, food and feed, school fees of children and social obligations	
4	Black gram-IPU 13-	8404	7154	63	1250	0	For agricultural inputs,	

	01 and IPU 11-02						food and feed, school fees of children and social obligations	
5	Arhar-IPA-203 and R. Arhar-1	0	0		0	0	For agricultural inputs, food and feed, school fees of children and social obligations	Crop on harvesting stage
6	Rapeseed & Mustard-R.Sufalam	30144	27144	50.5	3000	0	For agricultural inputs, food and feed, school fees of children and social obligations	
7	Linseed-Sabour Tisi-1	12236	11236	74.5	1000	0	For agricultural inputs, food and feed, school fees of children and social	

							obligations	
8	Summer Sesame-Krishna	11657	10157	69.97458	1500	0	For agricultural inputs, food and feed, school fees of children and social obligations	
9	Sesame (Kharif)-RT-346	10422	9172	78.3	1250	0	For agricultural inputs, food and feed, school fees of children and social obligations	

D. Pulses/Oilseed Farmers' perception of the intervention demonstrated 2022

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	Variety, Seed treatment, INM, Rhizobium/Azotobacter Treatment, Phsphobacteria,	Very appropriate	Variety-INM (Rhizobium/Azotonacter-Phosphobacteria-Sulphur-Boron-Zinc)	Easily access	No	Yes	NA

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Variety, Seed treatment, INM, IPM, Azotobacter Treatment, Phsphobacteria	Good	Demo unit is good on local check due to improved variety along with Package and practices	Positive response but Blue bull affects crop during growth period.

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Field day on Rapeseed& Mustard (R.Sufalam)	08.02.2022 (Natwar gopi)	27
2.	Field day on Chickpea (RVG-202)	18.02.2022(Rasispur)	29
3.	Field day on Rapeseed& Mustard (R.Sufalam)	24.02.2022 (Gurdhah)	23
4.	Field day on Field pea (HUDP-15)	02.03.2022 (Takiya- Nagra)	27
5.	Field day on Lentil (IPL-316)	03.03.2022 (Bharwaliya)	29
6.	Field day on Linseed (Sabour Tisi-1)	04.03.2022 (Takiya- Nagra)	28
7.	Training on Scientific cultivation of Blackgram (IPU 13-01 and IPU 11-02)	29.03. 2022 (Manjhi)	21
8.	Training on Scientific cultivation of Sesame (Krishna)	31.03.2022 (Manjhi)	23
9.	Field day on Sesame (Krishna)	24.06.2022 (Majhanpura)	26
10.	Training on Scientific cultivation of Pigeonpea (R.Arhar-1)	07.07.2022 (Manjhi)	30
11.	Training on Scientific cultivation of Sesame (RT-346)	04.08.2022 (Manjhi)	26
12.	Field day on Sesame (RT-346)	01.10.2022 (Bharwaliya)	29

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

Critical input distribution for Chickpea (RVG-202)

Field day on Chickpea (RVG-202)

Critical input distribution for Lentil (IPL-316)

Field day on Lentil (IPL-316)

Critical input distribution for Field pea (HUDP-15)

Field day on Chickpea (HUDP-15)


Critical input distribution for Black gram (IPU 13-01 and IPU 11-02)


Field day on Rapeseed & Mustard (R.Sufalam)


Critical input distribution for linseed (*Sabour Tisi-1*)

Field day on linseed (*Sabour Tisi-1*)

H. Farmers' training photographs

Critical input distribution Sesame Summer (*Krishna*)

Field day on Sesame Summer (*Krishna*)

Training and critical input distribution of Pigeon pea

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

Field day on Pigeon pea (*R. Arhar-1*)

Field day on Sesame Summer (*Krishna*)

Field day on linseed (*Sabour Tisi-1*)

Field day on Rapeseed & Mustard (*R.Sufalam*)

Field day on Chickpea (HUDP-15)

Field day on Lentil (IPL-316)

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Pulses	i) Critical input	710736	191580	519156
	ii) TA/DA/POL etc. for monitoring	0	0	0
	iii) Extension Activities (Field day)	69264	15162	54102
	iv)Publication of literature	-	-	-
	Total	780000	206742	764838
Oilseed	i) Critical input	486000	87888	398112
	ii) TA/DA/POL etc. for monitoring	-	-	-
	iii) Extension Activities (Field day)	54000	10970	43030
	iv)Publication of literature	-	-	-
	Total	540000	98858	441142

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

A) Farmers and farm women Including the sponsored training programme (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													
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

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
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	1	29	0	29	3	0	3	0	0	0	32	0	32
b) Fruits													
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	1	14	0	14	3	0	3	0	0	0	17	0	17
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
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	1	21	0	21	6	0	6	0	0	0	27	0	27
Production and use of organic inputs	4	86	12	98	11	4	15	0	0	0	97	16	113

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
Management of Problematic soils	1	14	0	14	3	0	3	0	0	0	17	0	17
Micro nutrient deficiency in crops	2	40	0	40	5	0	5	1	0	1	46	0	46
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	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	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	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	22	0	22	2	0	2	0	0	0	24	0	24
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
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	6	111	9	120	18	3	21	0	0	0	129	12	141
Post-Harvest Technology	1	25	0	25	4	0	4	0	0	0	29	0	29
Others, if any	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
VII. Plant Protection													
Integrated Pest Management	4	80	11	91	13	2	15	0	0	0	93	13	106
Integrated Disease Management	4	79	4	83	9	2	11	0	0	0	88	6	94
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
VIII. Fisheries													
Integrated fish farming	1	18	0	18	4	0	4	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	0	0	0	0	0		0	0	0	0	0	0	0
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
Hatchery management and culture of freshwater prawn	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
Portable plastic carp hatchery	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
Shrimp farming	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
Pearl culture	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
Others, if any	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
Planting material production	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
Bio-pesticides production	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
Vermi-compost production	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
Production of fry and fingerlings	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
Small tools and implements	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
Production of Fish feed	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
X. Capacity Building and Group Dynamics													
Leadership development	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
Formation and Management of SHGs	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

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
Entrepreneurial development of farmers/youths	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
Others, if any	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
Production technologies	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
Integrated Farming Systems	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
TOTAL	27	539	36	575	81	11	92	1	0	1	621	47	668

B) Rural Youth Including the sponsored training programmes (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	0	0	0	0	0	0	0	0	0	0	0	0	0
Bee-keeping	2	59	0	59	13	0	13	0	0	0	72	0	72
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	3	57	0	57	9	0	9	0	4	4	66	4	70
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	10	11	21	2	2	4	0	0	0	12	13	25
Commercial fruit production	0	0	0	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	1	24	0	24	4	0	4	0	0	0	28	0	28
Nursery Management of Horticulture crops	4	131	5	136	18	6	24	0	0	0	149	11	160
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	1	33	1	34	3	3	6	0	0	0	36	4	40
Sheep and goat rearing	2	69	0	69	11	0	11	0	0	0	80	0	80
Quail farming	1	32	1	33	6	1	7	0	0	0	38	2	40
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	2	78	4	82	8	5	13	0	0	0	86	9	95
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
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

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
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing	1	16	0	16	6	4	10	0	0	0	22	4	26
Post-Harvest Technology	0	0	0	0	0	0	0	0	0	0	0	0	0
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
TOTAL	18	509	22	531	80	21	101	0	4	4	589	47	636

C) Extension Personnel Including the sponsored training programmes (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	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	1	3	1	4	0	0	0	0	0	0	3	1	4
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	1	20	5	25	2	1	3	0	0	0	22	6	28
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
TOTAL	2	23	6	29	2	1	3	0	0	0	25	7	32

D) Farmers and farm women Including the sponsored training programmes (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	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	1	31	0	31	2	0	2	0	0	0	33	0	33
b) Fruits													
Layout and Management of Orchards	2	31	9	40	2	5	7	0	0	0	33	14	47
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	6	137	27	164	17	5	22	1	0	1	155	32	187
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	1	25	0	25	5	0	5	0	0	0	30	0	30
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any(INM)	4	85	10	95	10	3	13	0	0	0	95	13	108
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	6	110	18	128	43	22	65	0	0	0	153	40	193
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

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
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	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	1	19	0	19	3	0	3	0	0	0	22	0	22
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	1	19	0	19	3	0	3	0	0	0	22	0	22
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	1	21	0	21	2	0	2	0	0	0	23	0	23
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
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	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	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
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	2	48	0	48	7	0	7	0	0	0	55	0	55
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
Repair and maintenance of farm machinery and implements	3	112	0	112	20	0	20	0	0	0	132	0	132
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	2	46	0	46	5	0	5	0	0	0	51	0	51
Integrated Disease Management	1	26	0	26	4	0	4	0	0	0	30	0	30
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	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Composite fish culture & fish disease	1	18	0	18	2	0	2	0	0	0	20	0	20
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

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Bio-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
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	0	0	0	0	0	0	0	0	0	0	0	0	0

E) RURAL YOUTH including the sponsored training programmes (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	0	0	0	0	0	0	0	0	0	0	0	0	0
Bee-keeping	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
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	10	11	21	2	2	4	0	0	0	12	13	25
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

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	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
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	1	10	11	21	2	2	4	0	0	0	12	13	25

F) Extension Personnel Including the sponsored training programmes (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

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
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
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	0	0	0	0	0	0	0	0	0	0	0	0	0
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

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 (Cultivation of Vegetable)	2	60	0	60	5	0	5	0	0	0	65	0	65
Total	2	60	0	60	5	0	5	0	0	0	65	0	65
b) Fruits													
Training and Pruning	2	31	9	40	2	5	7	0	0	0	33	14	47
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	7	151	27	178	20	5	25	1	0	1	172	32	204
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	1	25	0	25	5	0	5	0	0	0	30	0	30
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	4	85	10	95	10	3	13	0	0	0	95	13	108
Others, if any(INM)	2	31	9	40	2	5	7	0	0	0	33	14	47
TOTAL	14	292	46	338	37	13	50	1	0	1	330	59	389
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	6	110	18	128	43	22	65	0	0	0	153	40	193
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	6	110	18	128	43	22	65	0	0	0	153	40	193
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
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

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
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	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
TOTAL	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	1	21	0	21	6	0	6	0	0	0	27	0	27
Production and use of organic inputs	5	105	12	117	14	4	18	0	0	0	119	16	135
Management of Problematic soils	1	14	0	14	3	0	3	0	0	0	17	0	17
Micro nutrient deficiency in crops	3	59	0	59	8	0	8	1	0	1	68	0	68
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	1	21	0	21	2	0	2	0	0	0	23	0	23
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	11	220	12	232	33	4	37	1	0	1	254	16	270
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
TOTAL	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

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Gender mainstreaming through SHGs	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
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	3	70	0	70	9	0	9	0	0	0	79	0	79
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
Repair and maintenance of farm machinery and implements	3	112	0	112	20	0	20	0	0	0	132	0	132
Small scale processing and value addition	6	111	9	120	18	3	21	0	0	0	129	12	141
Post-Harvest Technology	1	25	0	25	4	0	4	0	0	0	29	0	29
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	13	318	9	327	51	3	54	0	0	0	369	12	381
VII. Plant Protection													
Integrated Pest Management	6	126	11	137	18	2	20	0	0	0	144	13	157
Integrated Disease Management	5	105	4	109	13	2	15	0	0	0	118	6	124
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
TOTAL	11	231	15	246	31	4	35	0	0	0	262	19	281
VIII. Fisheries													
Integrated fish farming	1	18	0	18	4	0	4	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	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 & fish disease	1	18	0	18	2	0	2	0	0	0	20	0	20
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
TOTAL	2	36	0	36	6	0	6	0	0	0	42	0	42
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
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

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
TOTAL	**59**	**1267**	**100**	**1367**	**206**	**46**	**252**	**2**	**0**	**2**	**1475**	**146**	**1621**

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	0	0	0	0	0	0	0	0	0	0	0	0	0
Bee-keeping	2	59	0	59	13	0	13	0	0	0	72	0	72
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	3	57	0	57	9	0	9	0	4	4	66	4	70
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	20	22	42	4	4	8	0	0	0	24	26	50
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	1	24	0	24	4	0	4	0	0	0	28	0	28
Training and pruning of orchards	4	131	5	136	18	6	24	0	0	0	149	11	160
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	1	33	1	34	3	3	6	0	0	0	36	4	40
Quail farming	2	69	0	69	11	0	11	0	0	0	80	0	80
Piggery	1	32	1	33	6	1	7	0	0	0	38	2	40
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	2	78	4	82	8	5	13	0	0	0	86	9	95
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

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
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
Tailoring and Stitching	1	16	0	16	6	4	10	0	0	0	22	4	26
Rural Crafts	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
Others if any (ICT application in agriculture)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	19	519	33	552	82	23	105	0	4	4	601	60	661

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	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
Value addition	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	1	3	1	4	0	0	0	0	0	0	3	1	4

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	1	20	5	25	2	1	3	0	0	0	22	6	28
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	2	23	6	29	2	1	3	0	0	0	25	7	32
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

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Plant Protection	PF	Insect pest management of Rabi Crop	1	ON	21	0	21	4	0	4
Plant Protection	PF	Disease management in potato	1	ON	20	0	20	0	0	0
Soil Science	PF	Proper use and management of macro nutrients in crops	1	OFF	22	0	22	3	0	3
Agri Engineering	PF	Value addition in Amla	1	ON	20	0	20	3	0	3
Agri Engineering	RY	Installation and Maintainance of Farm Machinery	3	ON	28	0	28	4	0	4

Fisheries	PF	Fish culture management	1	OFF	20	0	20	2	0	2
Animal Science	RY	Dairy Farm Management	3	ON	36	4	40	3	3	6
Plant Protection	PF	Disease management in mustard crop	1	ON	22	0	22	3	0	3
Soil Science	PF	Application and types of bio fertilizer in field crop	1	ON	22	8	30	2	2	4
Soil Science	RY	Production and use of Azolla	3	ON	21	0	21	3	0	3
Agri Engineering	PF	Pickle processing	1	ON	19	3	22	3	1	4
Fisheries	PF	Culture of jayanti rohu fish	1	ON	22	0	22	4	0	4
Horticulture	RY	Vertical Gardening	1	OFF	12	13	25	2	2	4
Horticulture	PF	Important activities related to mango, guava and litchi, etc. in the month of February and March	1	OFF	21	0	21	3	0	3
Horticulture	PF	Layout and planting of vegetables in kitchen garden	1	OFF	19	4	23	2	1	3
Horticulture	PF	Layout and planting of vegetables in kitchen garden	1	OFF	14	10	24	0	4	4
Animal Science	RY	Goat Farming	3	ON	40	0	40	5	0	5
Soil Science	PF	Sowing of green gram through zero tillage	1	OFF	22	0	22	3	0	3

Soil Science	RY	Production and use of Azolla	3	ON	26	4	30	4	0	4
Horticulture	RY	Gardener	7	ON	38	2	40	4	2	6
Animal Science	RY	Poultry Farming and its management	3	ON	37	3	40	2	3	5
Animal Science	RY	Green fodder production and its management	3	ON	40	0	40	4	0	4
Animal Science	RY	Quail Farming and its management	3	ON	38	2	40	6	1	7
Soil Science	PF	Production and use of different organic manures	1	ON	23	0	23	4	0	4
Agri Engineering	PF	Tomato processing	1	ON	14	8	22	2	1	3
Horticulture	PF	Important activities in Mango, Litchi and Guava orchard in the month of April	1	ON	17	0	17	3	0	3
Plant Protection	PF	Pest management in maize	1	ON	28	0	28	2	0	2
Agri Engineering	PF	Value addition in tomato	1	ON	29	0	29	4	0	4
Plant Protection	PF	Management of Pest in Guava	1	ON	26	0	26	4	0	4
Soil Science	PF	Soil Sampling techniques	1	OFF	23	0	23	2	0	2
Plant Protection	PF	Pest and disease management in paddy nursery	1	OFF	30	0	30	4	0	4
Plant Protection	RY	Bee keeping and its	3	ON	30	0	30	5	0	5

		management								
Horticulture	PF	Scientific cultivation of new orchard of fruit	1	OFF	26	0	26	3	0	3
Plant Protection	RY	Bee Keeping and its Management	3	ON	42	0	42	8	0	8
Plant Protection	PF	Disease and pest management in Arhar	1	OFF	27	0	27	3	0	3
Soil Science	PF	Awareness programme on Balance use of Fertilizer	1	ON	32	8	40	4	2	6
Soil Science	PF	Production and use of Azolla-Majhanpura	1	OFF	26	0	26	5	0	5
Horticulture	PF	Training and pruning methods in Litchi	1	OFF	41	0	41	5	0	5
Horticulture	PF	Making and use of Pusa waste decomposer	1	OFF	30	0	30	3	0	3
Agri Engineering	PF	Awareness on Food Processing	1	ON	29	1	30	3	1	4
Agri Engineering	PF	DSR techniques	1	OFF	45	0	45	3	0	3
Agri Engineering	PF	DSR techniques	1	OFF	50	0	50	9	0	9
Plant Protection	PF	Disease and Pest of Paddy and their management	1	ON	24	6	30	3	2	5
Soil Science	PF	Scientific Cultivation of Pigeon Pea	1	ON	26	0	26	4	0	4
Soil Science	PF	Natural Farming	1	OFF	9	13	22	0	3	3

		and Food Security								
Agri Engineering	EF	Induction cum training programme of newly recruited Sub divisional Agricultural Officers of Saran Districts	2	ON	3	1	4	0	0	0
Agri Engineering	PF	Implements use in sowing of Paddy	1	OFF	37	0	37	8	0	8
Horticulture	PF	Production and use of Alovera	1	OFF	30	0	30	2	0	2
Horticulture	RY	Gardener	5	ON	39	1	40	8	0	8
Horticulture	PF	Propagation technique of Mango, Litchi, banana and Guava	1	OFF	38	0	38	3	0	3
Agri Engineering	PF	Micro-irrigation in Rice	1	OFF	27	0	27	3	0	3
Animal Science	RY	Goat farming and its management	3	ON	40	0	40	6	0	6
Animal Science	EF	Livestock Based IFS model for decent livelihood options	3	ON	22	6	28	2	1	3
Plant Protection	PF	Important pests of Cucurbits	1	ON	18	13	31	3	2	5
Soil Science	RY	Vermicompost production and its application	3	ON	19	0	19	2	0	2
Horticulture	PF	Management of young plant of Mango,	1	OFF	7	23	30	0	5	5

		Guava and Litchi								
Soil Science	PF	Preparation of waste decomposer	1	ON	20	0	20	1	0	1
Agri Engineering	RY	Small scale food processing	3	ON	22	4	26	6	4	10
Plant Protection	PF	Management of pest and diseases of banana	1	ON	22	0	22	3	0	3
Horticulture	PF	Management of young plants of Banana, Citrus, Bael	1	OFF	22	9	31	3	0	3
Horticulture	PF	Application of Micro irrigation in orchards of Mango, Guava and Litchi	1	OFF	30	0	30	5	0	5
Agri Engineering	PF	Small Scale Milk Processing	1	ON	27	0	27	3	0	3
Horticulture	PF	Nursery Raising of Brinjal and Tomato	1	ON	32	0	32	3	0	3
Horticulture	RY	Gardener	7	ON	35	5	40	2	2	4
Soil Science	PF	Scientific cultivation of Mustard	1	ON	20	0	20	1	0	1
Agri Engineering	PF	Value addition in Amla	1	ON	20	0	20	4	0	4
Horticulture	PF	Raising of Onion Nursery	1	OFF	30	0	30	3	0	3
Horticulture	RY	Gardener	7	ON	37	3	40	4	2	6
Horticulture	PF	Nursery raising of marigold	1	OFF	33	0	33	2	0	2
Agri Engineering	PF	Micro-irrigation in Wheat	1	OFF	28	0	28	4	0	4
Soil Science	PF	On Campus Manageme	1	ON	17	0	17	3	0	3

		nt of salt affected soils								
Horticulture	PF	Production and care of vegetables in Rabi season-Harpura	1	OFF	25	18	43	25	18	43
Plant Protection	PF	Pest and disease manageme nt in potato	1	OFF	24	0	24	2	0	2
Horticulture	PF	Improved Technolog y for crop production and manageme nt of potato	1	OFF	25	5	30	4	2	6
Horticulture	PF	Improved technology for crop production and manageme nt of Marigold	1	OFF	24	6	30	2	0	2
Soil Science	PF	Application of micronutrie nts in crops	1	ON	27	0	27	6	0	6
Horticulture	PF	Important activities done during December month in Horticultur al crops	1	OFF	29	1	30	4	1	5
Horticulture	PF	Important activities done during January month in Horticultur al crops	1	OFF	20	10	30	5	1	6
Animal Science	RY	Poultry Farming	3	ON	49	6	55	6	2	8
Agri Engineering	PF	Installation of micro-irrigation system	1	ON	24	0	24	2	0	2

		Total	133		2129	200	2329	292	68	360

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 else where
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Farm Machineries	Repair and maintenance of farm machinery and implements	Installation and Maintainance of Farm Machinery	3	28	0	28	-	-	-	-
Dairying	Dairying	Dairy Farm Management	3	36	4	40	-	-	-	-
Azolla	Production of organic inputs	Production and use of Azolla	3	21	0	21	-	-	-	-
Vertical Gardening	Protected cultivation of vegetable crops	Vertical Gardening	1	12	13	25	-	-	-	-
Sheep and goat rearing	Sheep and goat rearing	Goat Farming	3	40	0	40	-	-	-	-
Azolla	Production of organic inputs	Production and use of Azolla	3	26	4	30	-	-	-	-
Gardening	Nursery Management of Horticulture crops	Gardener	7	38	2	40	-	-	-	-
Poultry production	Poultry production	Poultry Farming and its management	3	37	3	40	-	-	-	-
Fodder Production	Fodder Production	Green fodder production and its management	3	40	0	40	-	-	-	-
Quail farming	Quail farming	Quail Farming and its	3	38	2	40	-	-	-	-

		management								
Bee-keeping	Bee-keeping	Bee keeping and its management	3	30	0	30	-	-	-	-
Bee-keeping	Bee-keeping	Bee Keeping and its Management	3	42	0	42	-	-	-	-
Gardener	Nursery Management of Horticulture crops*	Gardener	5	39	1	40	-	-	-	-
Sheep and goat rearing	Sheep and goat rearing	Goat farming and its management	3	40	0	40	-	-	-	-
Vermicompost	Production of organic inputs	Vermicompost production and its application	3	19	0	19	-	-	-	-
Small scale processing*	Small scale processing*	Small scale food processing	3	22	4	26	-	-	-	-
Gardener	Nursery Management of Horticulture crops*	Gardener	7	35	5	40	-	-	-	-
Gardener	Nursery Management of Horticulture crops*	Gardener	7	37	3	40	-	-	-	-
Poultry production	Poultry production	Poultry Farming	3	49	6	55	-	-	-	-

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

I) Sponsored Training Programmes

Sl.	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants									Sponsoring Agency
					PF/RY/EF		Male			Female			Total			
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1	Bee keeping and its management	Bee-keeping	May	3	RY	1	24	6	0	0	0	0	24	6		30	FPO

2.	Dairy Farm Management	Dairy Farm Management	January	3	RY	1	34	3	0	6	0	0	36	4	0	40	ICAR
3	Goat Farming	Goat Farming	February	3	RY	1	35	3	0	6	0	0	35	5	0	40	ICAR
4	Poultry Farming and its management	Poultry Farming and its management	March	3	RY	1	33	3	0	6	0	0	33	7	0	40	ICAR
5	Green fodder production and its management	Green fodder production and its management	March	3	RY	1	34	3	0	6	0	0	36	4	0	40	ICAR
6	Quail Farming and its management	Quail Farming and its management	March	3	RY	1	37	3	0	6	0	0	37	3	0	40	ICAR
7	Goat farming and its management	Goat farming and its management	June	3	RY	1	31	3	0	6	0	0	31	9	0	40	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
Kisan Mela organized	0	0	0	0	0	0	0	0	0	0	0
Kisan Mela participated	4	540	38	578	14.7	15	0	15	555	38	593
Field Day	8	122	0	122	11.47	8	0	8	130	0	130
Kisan Ghosthi	4	180	12	192	13.02	7	0	7	187	12	199
Exhibition organized	0	0	0	0	0	0	0	0	0	0	0
Participation in exhibition	1	2	0	2	0	1	0	1	3	0	3
Film Show	0	0	0	0	0	0	0	0	0	0	0
Method Demonstrations	2	16	3	19	9.52	2	0	2	18	3	21
Farmers Seminar	1	4	0	4	0	0	0	0	4	0	4
Workshop	0	0	0	0	0	0	0	0	0	0	0
Group discussion	0	0	0	0	0	0	0	0	0	0	0
Lectures delivered as	12	385	55	440	17.7	12	0	12	397	55	452

resource persons											
Advisory Services	52	12553	3245	15798	12.61	52	0	52	12605	3245	15850
Scientific visit to farmers field	341	341	7	348	12.93	0	0	0	341	7	348
Farmers visit to KVK	578	578	64	642	11.46	0	0	0	578	64	642
Diagnostic visits	58	170	1	171	16.25	58	0	58	228	1	229
Exposure visits	2	110	0	110	21.11	2	0	2	112	0	112
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
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0	0
Special day celebration				0				0	0	0	0
Sankalp Se Siddhi	0	0	0	0	0	0	0	0	0	0	0
Swatchta Hi Sewa	20	212	22	234	11.82	40	0	40	252	22	274
Celebration of important date	14	420	210	630	15.85	130	0	130	550	210	760
Others	4	135	36	171	12.57	4	0	4	139	36	175

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	37
Radio talks	0
TV talks	0
Popular articles	3
Extension Literature	7
Electronic media	0
Animal health camp	0
Any other	0

C. Celebration of important days in KVKs

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 (26th Jan.)	1	169	40	209	12.5	11	0	11	180	40	220
International Women's Day (8th Mar.)	1	0	50	50	12.69	11	0	11	11	50	61
Ambedkar Jayanti (14th Apr.)	0	15	3	18	15.38	8	0	8	23	3	26
International Yoga Day (21st Jun.)	1	21	8	29	11.53	11		11	32	8	40
Independence Day (15th Aug.)	1	40	45	85	13.54	11	0	11	51	45	96
Parthenium Awareness Week	1	2	0	2	11.42	10	0	10	12	0	12
Hindi Diwas (14th Sep.)	0	9	1	10	19.04	11	0	11	20	1	21
Gandhi Jayanti (2nd Oct.)	1	16	7	23	18.75	9	0	9	25	7	32
Mahila Kisan Diwas (15th Oct.)	1	0	35	35	13.33	10	0	10	10	35	45
World Food Day (16th Oct.)	1	12	4	16	27.77	2	0	2	14	4	18
Vigilance Awareness Week	1	0	0	0	18.18	11	0	11	11	0	11
National Unity Day (31st Oct.)	0	0	0	0	0	0	0	0	0	0	0
World Science Day (10th Nov.)	1	17	2	19	13.63	3	0	3	20	2	22
National Education Day (11th Nov.)	1	11	3	14	33.33	4	0	4	15	3	18
National Constitution Day (26th Nov.)	1	35	4	39	25	6	0	6	41	4	45
World Soil Day (5th Dec.)	1	37	4	41	11.11	4	0	4	41	4	45
Kisan Diwas (23rd Dec.)	1	36	4	40	12.3	8	0	8	44	4	48

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	26-04-2022	Kisan Bhagidari Prathmikta Hamari	Hon'ble PM	320	12	0	332
2	31-05-2022	Garib Kalyan Sammelan	Hon'ble PM	51	11	0	62
3	16-07-2022	Live telecast of 94th ICAR foundation day	Hon'ble PM	201	6	0	207
4	17-09-2022	Poshan Vatika Programme	Hon'ble CM	98	7	0	105
5	17-10-2022	Kisan Samman Samelan	Hon'ble PM	290	10	0	300

3.5 a. Production and supply of Technological products

Village seed

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

KVK farm

Crop/other	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Azolla	-	0.5 q	10000	4	4	0	46
Vermicompost	-	1.5 q	1500	12	9	0	12
Napier hybrid	CO2	1050 sticks	1050	15	12	0	19
Finger millet		0.25 q	1250	30	7	0	36
Total			13800	61	32	0	113

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
Vegetable seedlings							
Cauliflower	Improved variety	4500	2250	-	-	-	-
Cabbage	Improved variety	1500	750	-	-	-	-
Tomato	Improved variety	4280	2140	-	-	-	-
Brinjal	Kashi Uttam	3500	1750	-	-	-	-
Cucurbits	Improved variety	600	6000	-	-	-	-
Chilli	Kashi Abha	4000	2000	-	-	-	-
Onion	NHRDF Red 3	60 kg	1200	-	-	-	-
Moringa	PKM1	1050	15750	-	-	-	-
Others	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-
Mango	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-
Lime	-	-	-	-	-	-	-
Papaya	Red lady	2500	62500				
Banana	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-
Ornamental plants	-	-	-	-	-	-	-
Medicinal and Aromatic	Tulsi, Ashwgandha, Pepeermint, Mentha, etc.	150	750	-	-	-	-
Plantation				-	-	-	-
Spices				-	-	-	-
Turmeric	Rajendra sonia	3 q	9600	-	-	-	-
Tuber				-	-	-	-
Elephant foot yam	Gajendra	2.25 q	6750	-	-	-	-
Fodder crop saplings	Napier hybrid cv. CO2	3000	3000	-	-	-	-
Forest Species	*Melia dubia*	280	42420	-	-	-	-
Others, pl.specify				-	-	-	-
Total			1,56,860	-	-	-	-

Production of Bio-Products

Name of product	Quantity Kg	Value (Rs.)	No. of Farmers benefitted			
			SC	ST	Other	Total
Bio-fertilizers	-	-	-	-	-	-
Bio-pesticide	-	-	-	-	-	-
Bio-fungicide	-	-	-	-	-	-
Bio-agents	2370	18960	-	-	-	-
Others, please specify.	-	-	-	-	-	-
Total	-	-	-	-	-	-

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"***

i) Name of Seed Hub Centre:

Name of Nodal Officer :	Dr. Abhay Kumar Singh
Address :	KVK Saran
e-mail :	Head.kvk.manjhi@rpcau.ac.in
Phone No. : Mobile :	9198985483

ii) Quality Seed Production of Pulses

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed(F/S, C/S)
Kharif 2022	Target Revised to Rabi crop	-	-	-	-	-
Rabi 2021-22	Chickpea	RVG-202	200	13.0	128.0	C/S
	Lentil	IPL-316	450	32.0	380.0	C/S
Summer/Spring 2022	Green gram	Virat	350	25.0	150.0	F/S

iii) Financial Progress

Year	Opening Balance (1st 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	3.82267	5.33943	2.96632	87.96344	
2020-21	87.96344	2.08266	0	2.30567	88.18645	
2021-22	88.18645	1.35598	6.97210	1.99971	95.77806	

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	ISBN No./ISSN Copy	Circulation
Research paper	Response of different methods of zinc application on	**Kanhiya Lal Regar,** Vijay Kumar, Abhay Kumar Singh,	The Pharma Innovation, 11(2), 1398,1401	

	yield attributes, yield and economic profitability of Rice (Oryaza sativa L.) in semi-arid region of Bihar	MS Kundu, Atul Kumar and Santosh Kumar Singh		
Seminar/conference/ symposia papers	-	-	-	
Books	-	-	-	-
Bulletins	1 रवी एवं खरीफ़ की प्रमुख फसलों में पोषक तत्वों का प्रबंधन (2022),	एस के गंगवार , आर पी सिंह दुर्गा प्रसाद, **अभय कुमार सिंह**, डी के तिवारी एवं अभीक पात्रा,	कृषक चेतना, 1–40	
News letter				
Popular Articles	1 प्राकृतिक खेती अपनाये कम लगत में अधिक लाभ कमाए (2022),	आर पी सिंह, ए के सिंह, एस के गंगवार एवं **अभय कुमार सिंह**,	कृषक चेतना	
	2 समेकित कृषि प्रणाली जीवन का मूल आधार (2022),	आर पी सिंह, ए के सिंह, एस के गंगवार एवं अभय कुमार सिंह,	कृषक चेतना	
Book Chapter	Molecular aspects of host-pathogen interaction.	Debnath, A., **Ram, R.M**., Kumari, A., Saikia, P. and D.S. Lagoriya	Plan microbes interaction Harnessing next generation molecular technologies for sustainable agriculture 9780367774424	
	Nanotechnology in plant disease management.	**Ram, R.M**., Kalita, P.J. and H.B. Singh	Plan microbes interaction Harnessing next generation molecular technologies for sustainable agriculture 9780367774424	
	Tapping the role of plant volatiles inducing multi-tropic interactions for sustainable agricultural production	**Ram, R.M**., Debnath, A., Khumbarti, D., Devi., Y.L. and J. Pathma.	Plan microbes interaction Harnessing next generation molecular technologies for sustainable agriculture 9780367774424	
Extension Pamphlets/ literature	-	-	-	

Technical reports	District Agricultural Contingent Plan (DACP) Saran	Abhay Kumar Singh, Surendra Prasad, Saurabh Shankar Patel, Kanhaiya Lal Regar, Pankaj Kumar and J. C. Chandola	ICAR-CRIDA, Hyderabad	
Electronic Publication (CD/DVD etc)	-	-	-	
TOTAL	8	-	-	-

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.	Workshop	Presented the salient achievements of CFLD on oilseeds and pulses for the period 2021 of KVK Saran under CFLD Workshop on oilseeds and Pulses for KVKs under Zone-IV	Dr. Abhay Kumar Singh, Sr. Scientist & Head. KVK Saran	07-08th March, 2022 at KVK Sujani, Deoghar, Jharkhand.	ICAR-ATARI, Patna
2.	Faculty development Programme	Competency Enhancement in Agricultural Research & Education at DRPCAU, Pusa	Ratul Moni Ram	26-30 March 2022 at DRPCAU, Pusa	NAARM Hyderabad
3.	Faculty development Programme	Orientation course for New SMSs under KVKs at DRPCAU, Pusa	Ratul Moni Ram	27-30 April 2022 at DRPCAU, Pusa	Directorate of Extension Education
4.	Workshop	Promotion of Kisan Drone: Issues Challenges and way forward	Dr. Saurabh Shankar Patel, SMS, PHT	02-05-2022, One day at ICAR, New Delhi	ICAR
5.	Brain Storming training	Climate education for successful	Dr. Kanhaiya Lal Regar, SMS, Soil Science	24-05-2022, 1 day at	DRPCAU, Pusa

		implementation of climate resilient agriculture		DRPCAU, Pusa	
6.	Training	Solar Powered Irrigation System	Dr. Saurabh Shankar Patel, SMS, PHT	25 to 27-05-2022, 3 Days at Jabalpur	BISA, Jabalpur
7.	National Conference	National Conference of KVKs	Dr. Abhay Kumar Singh, Sr. Scientist & Head. KVK Saran	Ist-2nd June, 2022 at Dr YS Parmar University of Horticulture & Forestry, Solan Himachal Pradesh	ICAR, New Delhi
8.	Workshop	Presented the salient achievements of KVK Saran for the period 2021 and action plan for the period 2022 under Annual Workshop of KVKs under Zone-IV	Dr. Abhay Kumar Singh, Sr. Scientist & Head. KVK Saran	6th – 8th August 2022 at Rajgir International Convention Centre (RICC), Rajgir, Bihar	ICAR-ATARI, Patna

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

Case: 1

Name of farmer	Sri SatrughanYadav
Address	Village + PO- Dumri, Block-Manjhi, District: Saran, Bihar-841313
Contact details (Phone, mobile, email Id)	9661172607
Landholding (in ha.)	3.80 ha
Name and description of the farm/ enterprise	Resource Conservation Technology (zero tillage, Plastic mulching, raised bed planting maize, Intercropping of potato + maize)

Economic impact

Field crops			
Year	**Gross Return**	**Net Return**	**C:B Ratio**
2018-2019	27415.80	12438.11	1.99
2019-2020	30163.50	14238.26	2.04
2020-2021	36697.50	20369.30	2.37
2021-2022	41439.48	26641.91	3.04
2022-2023	44771.10	29704.86	3.21

Horticultural crops			
Year	**Gross Return**	**Net Return**	**C:B Ratio**
2018-2019	27415.80	18829.31	2.04
2019-2020	30163.50	18990.35	2.00
2020-2021	36697.50	29868.28	2.41
2021-2022	41439.48	42756.92	3.16
2022-2023	44771.10	54645.62	3.89

Livestock			
Year	**Gross Return**	**Net Return**	**C:B Ratio**
2018-2019	51750.00	32250.00	2.75
2019-2020	51750.00	32250.00	2.75
2020-2021	108000.00	71000.00	3.04
2021-2022	126000.00	83500.00	3.01
2022-2023	144375.00	101875.00	3.42

Social impact

The cost of cultivation has drastically reduced by mulching practice because it minimizes the weeding as well as irrigation cost. Now a day scarcity of water, extreme high and low temperature, the mulching practice has proved a

	better option for saving of input cost as results enhances the livelihood of farmers.
Environmental impact	- Soil moisture conservation which reduced the no. of irrigations - Regulate the soil temperature which promote the root growth and nutrient use efficiency - Reduction in pest and disease infestation - Enhancement in quality of produced - Reduces the greenhouse gas
Horizontal/ Vertical spread	After adoption of mulching practice in tomato I have motivated 9 farmers to take vegetables crop under mulching in about 1.5 ha of land. The saving in cost and the timeliness of operation impressed the farmers and so they are adopting this technology
	
Silver color plastic mulching in tomato	**Flowering stage of tomato under plastic mulching**
	
Zero tillage wheat (*Var. HD 2967*)	**Dairy**

Case: 2

Name of farmer	Mithun Kumar
Address	Village: Sitalpur Dih, Post: SItalpur, Block-Dighwara, District: Saran, Bihar
Contact details (Phone, mobile, email Id)	9304712209
Landholding (in ha.)	1.5 ha
Name and description of the farm/ enterprise	Round year production of button mushroom

Economic impact

Mushroom profitability (Rs./ annum)

Year	Gross Return	Net Return	C:B Ratio
2018-19	80,000	25,000	1.45
2019-20	1,20,000	45,000	1.60
2020-21	2,75,000	1,10,000	1.67
2021-22	4,50,000	2,80,000	2.65
2022-23	7,50,000	4,70,000	2.68

Livestock

Year	Gross Return	Net Return	C:B Ratio
2018-19	-	-	-
2019-20	90,000	40,000	1.80
2020-21	1,30,000	70,000	2.16
2021-22	1,30,000	70,000	2.16
2022-23	2,40,000	1,40,000	2.40

Social impact

Mushroom production enhanced the livelihood security of marginal farmers through generating 5 years average annual income of Rs.186000.00

Environmental impact

Mushrooms are environmentally very friendly. They biosynthesize their own food from agricultural crop residues, which, just like solar energy, is readily available and sustainable.

Horizontal/ Vertical spread

After set-up AC mushroom growing chamber in 2022 and first crop give a gross return of around 3 lakh. Through my well established mushroom enterprise farmers of neighbor motivate and around 25 farmers had started mushroom farming

Mushroom growing chamber

Guidance for compost production

	
Cultivation of Button mushroom	**Dairy Unit**

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
1.	Pretreatments of fresh Button mushroom for shelf life extension	Dr. Saurabh Shankar Patel, SMS, PHT	Button mushroom is very perishable in nature, It starts deteriorating just after the plucking and farmers are force to sell it within one day. With the help of pretreatment agents (0.05% KMS+0.5 % Cacl2 and 0.5% Nacl) will improve its appurtenance and shelf life upto 7 days at refrigeration conditions.
2	Bamboo based Vertical farming	Smt Sunita Prasad W/O Satyendra Prasad Vill- Bareja, Manjhi, Saran-841201 Contact-9931252609	The farmer earlier practiced vertical farming on plastic pipes, but later switched to bamboo-made pipes. Thus, she saves the cost of pipes by nearly 10%.

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	Neem oil is mixed with water @ 30ml./lit. and sprayed	To control stem borer in rice.
2	Pointed Gourd	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
3	Fruit crops	The kerosene-soaked swap is put at the place where the stem borer are damaging the fruit trees	Control of stem borer in fruit trees

4	Soil fertility management	Staying the animals in the field for 1 or 2 nights is done to increase fertility of soils	Improvement of soil fertility

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	Wheat	0.81	2.58 q	1	Y
2	Rapeseed	0.3	4.52 q	2	Y
3	Lentil	0.32	3.5 q	2	Y
4	Maize	0.37	10.04 q	2	Y
5	Papaya	0.2	60 q	2	Y
6	Tomato	0.4	54 q	1	Y

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

Sl. No.	**Brief details of the tool/ methodology followed**	**Purpose for which the tool was followed**
1.	Projector	For sowing videos in training and others programme

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

Sl. No	Name of the Equipment	Qty.
1.	Mrida Parishak Kit	01

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
256	0	256

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	256	05	256	Nil
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 programme on thematic topic "Soils: Where food begins"	62	-	-	25	25

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.)
4	0	0	0	0

3.13. Technology week celebration

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

3.14. RAWE/ FET programme - is KVK involved? (Y/N)

No of student trained	No of days stayed
7	55

ARS trainees trained	No of days stayed
0	0

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

Date	Name of the person	Purpose of visit
24-08-2022	Sri Rajesh Meena, DM, Saran	To see the demonstration and work done by KVK
18-08-2022	Dr. M. S Kundu, Director Extension Education, DRPCAU, Pusa	SAC Meeting
	Smt. Anshu Mala DDM, NABARD, Saran	SAC Meeting
	Sri. Shyam Bihari Singh, DAO, Saran	SAC Meeting
	Smt. Kumari Sheela, GM, DIC, Saran	SAC Meeting
	Sri. Ankit Shrivastava, Fisheries Extension Officer, Saran	SAC Meeting
	Dr. Mani Kumari Karmika, TVO Manjhi, Saran	SAC Meeting

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
Mushroom production	200	40	NIL	50000/annum

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	09%
Mushroom Production	38%
Seed Production	48%
Zero tillage technology	45%
Pre-treatments of mushroom	64%

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	Narvdeshwar Giri, 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 15th August and transplanting in the main field by 15th 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 25th 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 25-30th 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 pudding. Thus farmers get could get gross economic return of Rs. 60000.00 from one ha of land.

Thematic area	**Crop production**
Name of the Innovation	Multiple cropping in guava garden
Details of Innovator	Shri Umeshwar kumar 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 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 15th 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

	Shri Umeshwar Singh could get a Gross Income of more than 80000.00 per ha from the guava garden.

4.5. Details of entrepreneurship development

<table>
<tr><th colspan="2">Entrepreneurship development</th></tr>
<tr><td>Name of the enterprise</td><td>Singh Vermicompost</td></tr>
<tr><td>Name & complete address of the entrepreneur</td><td>Sri Rameshwar Singh, Village: Karah, Block: Baniyapur, District: Saran Bihar</td></tr>
<tr><td>Intervention of KVK with quantitative data support:</td><td></td></tr>
<tr><td>Time line of the entrepreneurship development</td><td>5 years
In the year 2012, enterprise of Enriched Vermicompost production and Banana Cultivation.</td></tr>
<tr><td>Technical Components of the Enterprise</td><td>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.</td></tr>
<tr><td>Status of entrepreneur before and after the enterprise</td><td>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.</td></tr>
<tr><td>Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):</td><td>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.
<table>
<tr><th>Year</th><th>Gross Return/ year</th><th>Net Return/ year</th><th>B:C Ratio</th></tr>
<tr><td>2017</td><td>100000</td><td>25000</td><td>2.0</td></tr>
<tr><td>2018</td><td>75,000.00</td><td>175000</td><td>1.37</td></tr>
<tr><td>2019</td><td>225000</td><td>67500</td><td>2.25</td></tr>
<tr><td>2020</td><td>1,10,000.00</td><td>550000</td><td>1.75</td></tr>
<tr><td>2021</td><td>625000</td><td>250000</td><td>2.5</td></tr>
<tr><td>2022</td><td>540000</td><td>210000</td><td>2.2</td></tr>
</table></td></tr>
<tr><td>Horizontal spread of enterprise</td><td>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.</td></tr>
</table>

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	11 Messages to 34438 farmers	38
2	Advisory Service through Phones	As and when needed	
3	Provision of free internet facility to the farmers when required	As and when needed	
4	Farmers linkage through Kisan Sarathi	Availability of KVK Scientist throughout the year for solving query on phone	
5	Farmers advisory through Whatsapp group	As and when needed	

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
MGNAREGA	For development in villages and KVK premises

5.2. List of special programme undertaken during 2022 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.)
Fal Phool Pradarsani	Exhibition and training	Feb	ATMA	-
Sonpur Mela	To show the innovation in agriculture	Nov-Dec	Bihar Govt	-

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	Oyster mushroom		150 kg	50000	150000	
2.	Fruit preservation	2013	24	-	-	-	-	-	
3.	Technology park	2019	3654	-	Cereals, vegetables, pulses, flowers, medicinal plants, fodder crops	-	-	-	
	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	09.06.2022	10.11.2022	6.0	*Rajshree*	CS	242.4	-	-	
Wheat	10.12.2021	25.04.2022	4.0	*(DBW 252)*	FS	75.60	-	-	
Pea	05.11.2021	24.03.2022	0.5	*(HUDP -15)*	FS	2.50	-	-	

Lentil	08.12.2021	21.03.2022	2.0	*Pusa ageti*	FS	3.22	-	-	
Rai	16.11.2021	07.04.2022	1.0	*R. Suflam*	TL	9.07	-	-	
Potato	29.11.2021	30.03.2022	0.5	*(Kufri Bahar*	FS	75.5	-	-	
Linseed	16.11.2021	23.03.2022	1.0	*Sekhar*	TL	0.50	-	-	
Chickpea	05.11.2021	24.03.2022	0.5	*P 256*	TL	0.50	-	-	
Pigeonpea	05.07.2022	To be harvested	1.0	*R. Arhar 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	2760	16925	27600	Used in farm

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.	Bull	Jersey	Natural insemination	2	24000	34800	

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)
July-2022	40	2	-
Total :	40	2	-

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed: Yes but needs renovation

No. of staff quarters: 06

Date of completion: 2009

Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI
January to December 2022	QI is occupied and other 5 quarters are empty and needs renovation					

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 *(In Rs.)*

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Pulses	i) Critical input	710736	191580	519156
	ii) TA/DA/POL etc. for monitoring	0	0	0
	iii) Extension Activities (Field day)	69264	15162	54102
	iv)Publication of literature	-	-	-
	Total	780000	206742	764838
Oilseed	i) Critical input	486000	87888	398112
	ii) TA/DA/POL etc. for monitoring	-	-	-
	iii) Extension Activities (Field day)	54000	10970	43030
	iv)Publication of literature	-	-	-
	Total	540000	98858	441142

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

Oilseed	i) Critical input	486000	87888	398112
	ii) TA/DA/POL etc. for monitoring	-	-	-
	iii) Extension Activities (Field day)	54000	10970	43030
	iv)Publication of literature	-	-	-
	Total	540000	98858	441142

7.4. Utilization of KVK funds during the year 2022 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	14591262	14591262	12058748
2	Traveling allowances	75000	750000	75000
3	Contingencies			
A	Office	200000	200000	195362
B	Training	200000	200000	182587
C	FLD	70000	70000	65456
D	OFT	80000	80000	31018
E	Soil and water testing	0	0	0
F	Maintenance	50000	50000	0
G	Extension activities	50000	50000	0
H	Swachhta Expenditure	0	0	0
TOTAL (A)		15316262	15316262	12608171
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)		0	0	0
C. REVOLVING FUND		0	0	0
GRAND TOTAL (A+B+C)		15316262	15316262	12608171

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
2020-21	481805	1315558	1141298	656064
2021-22	656064	2824324	1951424	1528964
2022-23	1528964	1035744	1725637	839071

7.6. (i) Number of SHGs formed by KVKs
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities
(iii) Details of marketing channels created for the SHGs

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activities	Season	With line department	With ATMA	With both
Rabi & *Kharif* Abhiyan	25	*Rabi & Kharif*	Y	Y	Y
Farmers training	15	*Rabi &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)
False smut	Paddy	07.10.22	100	20	Spray of copper oxychloride
Anthracnose	Mango	12.04.22	78	31	Spray of Methyl thiophenate
Late blight	Potato	14.12.22	56	28	Spray of Dithane M 45
Wilt	Chickpea	24.11.22	88	36	Spray of copper oxychloride

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 Yuva Kendra (NYK) Training

Title of the training programme	Period		No. of the participant		Amount of Fund Received (Rs)
	From	To	Male	Female	
NA	NA	NA	NA	NA	NA

9.2. PPV & FR Sensitization training Programme

Date of vaccination programme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration
NIL	NIL	NIL	NIL	NIL

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

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	*NA*
2.	No. of farmers registered in the portal	*NA*
3.	Mobile Apps developed by KVK	*NA*
4.	Name of the App	*NA*
5.	Language of the App	*NA*
6.	Meant for crop/ livestock/ fishery/ others	*NA*
7.	No. of times downloaded	*NA*

9.5 Kisan Mobile Advisory Services (KMAS)

Sl. No.	Discipline	No. of Advisories	No. of Messages (text+ videos)	Total messages	No. of Farmers
1.	Crop	NIL			
2.	Livestock	NIL			
3.	Weather	NIL			
4.	Marketing	NIL			
5.	Awareness	NIL			
6.	Enterprises	NIL			
7.	Others	NIL			
8.	Total	NIL			

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**
16-12-2022	Swachhata pledge by KVK staffs, display of banners and plantation in KVK premises	18	0	5
17-12-2022	Digitization of office records, cleanliness drive of KVK office and corridor, disposing of old and obsolete materials	16	0	0
18-12-2022	Cleanliness and sanitation drive in Saahbalpur village Manjhi	28	0	27
19-12-2022	Cleaniness drive in office premises and other surrounding areas	14	0	5
20-12-2022	Waste management, disposal of organic wastes into vermi-compost unit	19	0	15
21-12-2022	Awareness on recycling of waste water and water harvesting for agriculture	17	0	14
22-12-2022	Cleanliness drive of nearby village	23	0	21
23-12-2022	Celebration of Kisan Diwas with farmers	61	0	50
24-12-2022	Swachchata awareness at nearby village and sanitation drive	24	0	25
25-12-2022	Plantation and sanitation drive under swachchata pakhwada	61	2	51
26-12-2022	Office Campus Cleaning and Plantation drive	26	2	10
27-12-2022	Awareness on Waste Management	20	0	18
28-12-2022	Campaign on cleaning of sewarage & water lines, Cleaning of nearby village	28	0	26
29-12-2022	Awareness on treatment and safe disposal of biodegradable and non-biodegradable wastes among the farmers.	24	0	20
30-12-2022	Office premises cleaning in presence of print media	17	0	0

31-12-2022	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	4	-
2. Basic maintenance	3	-
3. Sanitation and SBM	4	-
4. Cleaning and beautification of surrounding areas	5	-
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	6	-
6. Used water for agriculture/ horticulture application	3	-
7. Swachhta Awareness at local level	12	-
8. Swachhta Workshops	2	-
9. Swachhta Pledge	1	-
10. Display and Banner	4	-
11. Foster healthy competition	2	-
12. Involvement of print and electronic media	3	-
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	5	-
14. No. of Staff members involved in the activities	11	-
15. No of VIP/VVIPs involved in the activities	0	-
16. Any other specific activity (in details)	0	-
Total	**65**	

9.7. Observation of National Science Day

Date of Observation	Activities undertaken
NA	

9.8. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants
Nil		

9.9. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used
Dalan Singh High School	21-12-2022	-	Blackboard

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 ZilaPanchayat	Distt. Collector/ DM	Bank Officials	Farmers	Govt. Officials, PRI members etc.	Total		
-	---	-	-	-	-	-	-	-	-	-	-	-

9.11. Details of Swachhta Hi Sewa programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Sanitation, cleaning of KVK premises, cleaning and awareness in nearby villages, digitalization of records	5	185	0	0

9.12. Details of Mahila Kisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Mahila Kisan Diwas	8	54	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.	Nagendra Sahni	Ghurahu Kothiya, Dariyapur, Saran Mob: 7903311431	Button Mushroom Production
2.	Mithun Kumar	Sitalpurdih, Dariyapur Mob: 9304712209	Button Mushroom Production
3.	Ankush Raj	Sahpur Diara, Sonpur Mob: 9504094578	Food Processor

4.	Raju Kumar Yadav	Nizamchak, Dariyapur Mob: 7992276373	Button Mushroom Production

9.14. Revenue generation

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
1.	Farm Produce and Natural Service	225029	-
2.	Seed Production at KVK	578715	DSF, Dholi
3.	Custom Hiring (Under CRA programme and others)	337749	-

9.15. Resource Generation:

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

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
18-09-2022	CRA Programme	Functional

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/ KVK, Manjhi, Saran	Contingent plan	Awareness programme- 10 nos.	340	Annexed below

Sowing window for 5 major field crops

Sowing window	**Rice**	**Maize**	**Pigeonpea**	**Wheat**	**Rapeseed and mustard**
Kharif-Rainfed		1st week of June to 4th week of June	3rd week of June to 1st week of July		
Kharif-Irrigated	1st week of June to 1st week of July				
Rabi-Rainfed		3rd week of October to 4th week of November		3rd week of October to 1st week of November	
Rabi-Irrigated		1st week of November to		2nd week of November to	3rd week of September to

		1st week of December		1st week of December	2nd week of October

Prone to major **contingency of the district (Tick mark)**

Major contingency	Regular	Occasional	None
Drought	√		
Flood	√		
Cyclone			√
Hail storm			√
Heat wave	√		
Cold wave	√		
Frost		√	
Sea water intrusion			√
Pests and disease outbreak		√	

Average value of soil health parameters (pH, EC, OC & Macronutrients) of different Blocks of Saran District:

Sr. No.	Name of Blocks	pH	EC (ds/m)	OC (%)	Macro Nutrients			
					N (kg/ha)	P_2O_5 (kg/ha)	K_2O (kg/ha)	S (kg/ha)
1.	Maker	8.01	0.89	0.31	225.50	29.60	186.65	19.50
2.	Amour	8.36	0.60	0.39	191.10	26.50	178.10	26.40
3.	Marhaura	8.33	0.42	0.46	221.60	32.60	164.16	19.60
4.	Nagra	8.04	0.70	0.33	182.40	21.50	115.30	19.46
5.	Garkha	8.14	0.49	0.41	220.40	28.40	174.50	19.29
6.	Chhapra	8.15	0.53	0.51	221.50	26.40	163.15	21.53
7.	Parsa	8.14	0.98	0.45	231.90	29.70	145.60	22.28
8.	Reevilganj	7.59	0.39	0.41	216.40	31.40	186.42	20.33
9.	Manjhi	7.74	0.47	0.51	236.30	36.10	175.89	21.40
10.	Ekma	7.88	0.59	0.55	261.80	29.40	165.03	29.60
11.	Masharakh	7.91	0.54	0.42	230.10	22.50	182.85	28.50
12.	Lahladpur	7.99	0.76	0.49	251.40	21.40	149.88	21.40
13.	Baniyapur	8.02	0.62	0.39	219.60	19.80	169.01	26.30
14.	Panapur	8.26	0.84	0.32	221.30	21.50	159.60	19.60
15.	Taraiya	8.28	0.65	0.34	226.90	20.40	166.42	27.60
16.	Jalalpur	8.05	0.48	0.55	251.20	19.70	165.50	21.20
17.	Dariyapur	7.88	0.53	0.44	235.60	22.40	155.60	23.60
18.	Sonepur	7.70	0.58	0.35	245.80	29.70	172.12	21.25
19.	Ishuapur	8.12	0.38	0.40	216.50	24.50	169.50	27.81
20.	Dighawara	8.52	0.41	0.29	196.50	23.60	156.40	26.50

Average value of soil health parameters (Micronutrients) of different Blocks of Saran District:

Sr. No.	Name of Blocks	Micro Nutrients (mg/kg)				
		Zn	Cu	Fe	Mn	B
1.	Maker	0.45	2.87	14.66	7.34	0.47
2.	Amour	0.56	3.06	15.37	5.19	0.52
3.	Marhaura	0.62	3.45	14.86	6.22	0.58
4.	Nagra	0.42	2.77	19.98	7.33	0.58
5.	Garkha	0.74	1.79	12.6	3.62	0.6
6.	Chhapra	0.65	3.45	19.77	4.8	0.52
7.	Parsa	0.38	1.93	14.19	5.38	0.59
8.	Reevilganj	0.41	3.47	17.3	5.61	0.76
9.	Manjhi	0.39	2.15	14.32	4.85	0.67
10.	Ekma	0.51	1.69	13.32	7.42	0.71
11.	Masharakh	0.69	1.32	15.65	6.21	0.57
12.	Lahladpur	0.78	2.11	11.4	6.17	0.66
13.	Baniyapur	0.69	2.58	12.62	6.61	0.6
14.	Panapur	0.71	1.21	12.94	4.5	0.61
15.	Taraiya	0.64	1.08	11.64	3.65	0.47
16.	Jalalpur	0.62	1.43	11.98	2.8	0.58
17.	Dariyapur	0.76	1.64	22.46	4.68	0.57
18.	Sonepur	0.71	1.62	19.39	6.67	0.58
19.	Ishuapur	0.39	2.69	9.44	5.14	0.86
20.	Dighawara	0.41	2.04	11.9	3.98	0.49

Climate Variability Challenges:

Historical trends in rainfall		Decadal average		
		1990-2000	2000-10	2010-20
No. of rainy days		55.3	43.2	54.8
No. of dry spells during kharif season	>10days	3.4	4	5.1
	>15days	1.2	1.4	1.8
	>20days	1	1	0.8
No. of intensive rain spells	>60 mm per day	3	1	2.4

The different strategies for weather related contingent plan for drought, rainfed, unusual rain, outbreak of pest and diseases, floods, extreme variables including heat/cold waves/hailstorm/ cyclone etc. for agricultural crops and livestock including poultry have been

prepared by the KVK team and submitted to DRPCAU, Pusa for onward submission to ICAR-CRIDA, Hyderabad for uploading.

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

a) Year:
b) Introduction / General Information:

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

11. Details of TSP

a. Achievements of physical output under TSP during 2021

Sl.	**Activities**	**Physical Achievement**	
1)	Trainings	No. of Trainings/Demos	No. of beneficiaries
a.	Farmer	Nil	
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 2022-23 (Rs. In lakh):

c. Achievements of physical outcome under TSP during 2022

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 2022

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	2	56
b.	Women	1	45
c.	Rural Youths	1	40
d.	Extension Personnel	0	0
2)	OFT	No. of OFTs	No. of beneficiaries
		-	-
3)	FLD	No. of FLDs	No. of beneficiaries
	High Yielding variety of Papaya (var. Red Lady)	1	20
	High yielding variety Tomato cultivation	1	20
	Crop diversification through Brinzal	1	15
	Income enhancement through cultivation of garlic	1	10
	Income enhancement through cultivation of cabbage	1	20
	Income enhancement through cultivation of cauliflower	1	20
	Income enhancement through cultivation of elephant foot yam	1	05
	Income enhancement through cultivation of turmeric	1	05
	Drudgery reduction during weeding through grubber	1	100
4)	Mobile agro- advisory to farmers	No. of advisory	No. of beneficiaries
		5	845
5)	Other activities		
a.	Participants in extension activities (No.)	04	
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)- **NIL**

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	

Crop Management / Production

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	

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	

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	

Capacity building

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

Extension activities

Thematic area	No of activities	No of beneficiaries

		SC	ST		Other			Total		
		M	F	M	F	M	F	M	F	T

Detailed report should be provided in the circulated Performa

14. a) Awards/Recognition received by the KVK in year 2022

Sl. No.	Name of the Award	Conferring Authority	Amount	Purpose
1	Best Stall Award	DRPCAU, Pusa	-	Best stall award in Kisan Mela
2	Best Stall Award	KVK, Piperakothi	-	Best stall award in Kisan Mela
3	Certificate of appreciation	Bihar Entrepreneurship Association	-	For outstanding work in the promotion of innovative technology of agriculture

b) Award received by Farmers in year 2022

Sl.	Name of the Award	Name of the Farmer	Address	Contact No.	Aadhar No.	Amount	Purpose	Conferring Authority
1.	Abhinav Kisan Award	Mr. Ankush Raj	Sahpur Diara, Sonpur, Saran	9504094578	315102882610	5000	Outstanding work in Agriculture in the district	DRPCAU, Pusa

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

The project on **"Climate Resilient Agriculture Programme" (CRA Program)** sanctioned by the Government of Bihar in 2019 which was initially started in two districts namely Madhubani and Khagaria and later involved the network in 38 districts of Bihar from 2020 onwards assessing the need based technological interventions under climatic resilient practices.

CRA Program is an associated approach of different partners including Dr. Rajendra Prasad Central Agricultural University (RPCAU), Pusa-Samastipur, Bihar Agricultural University (BAU) Sabour, ICAR- Research Complex for Eastern Region (ICAR_RCER), Patna and Borlaug Institute for South Asia (BISA) as a Follow-up of the instruction of the Hon'ble Chief Minister of Bihar, Shri Nitish Kumar ji, to cope up with current future climatic uncertainty and extreme variables owing to shattered the economy of farming clientele.

Project Site at Saran:

Saran district occupies an area of 2,641 square kilometres and is situated between 25°36' and 26°13' north latitude and 84°24' and 85°15' east longitude in the southern post of the Saran Division of North Bihar. The Ganga River provides the southern boundary of the district, beyond which lie the districts of Bhojpur and Patna and to the north of Saran lie the districts of Siwan and Gopalganj

Krishi Vigyan Kendra Manjhi Saran have been entrusted Under RPCAU Pusa to adopt five villages for technological interventions and demonstration of CRA Programme and the details of the villages and GPs coordinates of adopted villages is depicted in the table:

Sl. no.	Village	Block	GPS Coordinates
1	Dumri	Manjhi	25.872644; 84547899
2	Dharhara	Manjhi	25.859534; 84596381
3	Samhota	Jalalpur	25.857388; 84690876
4	Ramnagar	Jalalpur	25.8585; 84.6819
5	Manjiwaliya	Jalalpur	25.848141; 84.649888

Team members involved from KVK Saran Under CRA Programme

Sl.No	Name and discipline	Role
1	Dr. Abhay Kumar Singh (Animal science)	Center PI/ CO-PI
2	Dr. Saurabh Shankar Patel (Post-Harvest Technology	CO-PI
3	Dr. Kanhaiya Lal Regar (Soil Science)	CO-PI
4	Dr. Kumbhar Chaitanya Ramesh (Ag.Entomolgy)	Senior Research Fellow

Technological interventions under different seasons:

Unprecedented climate change, together with its associated phenomena such as unpredictable rainfall, extreme temperatures, and so on, has become a major impediment to the agricultural sector's overall development. Bihar is a leading state in agriculture affected by climate change. Bihar government has started project “Climate Resilient Agricultural (CRA) Programme” which is changing farmers behaviour towards adoption of climate smart

technologies. As per the action plan for ***Rabi, Summe*r and *Kharif* Season** we have to conduct Fallowing different intervenations on farmers field in all the above-mentioned villages.

Rabi Season 2021-22					
Sl.no.	**Crop**	**Technological Interventions**	**Targeted area (Acre)**	**Achieved area (Acre)**	**No. of Beneficiary**
1	Wheat	Zero tillage	300	300	378
2	Lentil	Zero tillage	50	50	74
3	Maize+ Potato	Intercropping	30	30	40
4	Wheat	Raised Bed Planting (ZT)	75	75	89
5	Mustard	Raised bed planting	50	50	76
6	Maize	Raised Bed Planting	70	70	79
7	Wheat	Community Irrigation	20	15	09
8	Wheat	Nutrient expert/green seeker based nutrient management	25	25	19
9	Potato	Potato based farming system	3	3	07
		Total	**618**	**618**	**771**

Performance validation on yield and economics of wheat under different interventions during Rabi 2021-22

Crop	Variety	Technology	Demonstration (Acre)	No of Beneficiaries	Grain yield (q/ha)		Straw yield (q/ha)		Net Return (INR)		B: C Ratio	
					Demo	Local check	Demo	Local check	Demo	Local check	Demo	Local check
Wheat	HD -2967	Zero Tillage	185	202	54	38	69	64	67800	25194	2.84	1.51
	HD-2733		75	89	49	38	63	61	59900	25194	2.62	1.51
	DBW-187		12.5	29	52	38	66	62	65825	25194	2.79	1.51
	DBW -252		12.5	27	44	38	56	55	50025	25194	2.36	1.51
	WB -02		15	31	42	38	55	51	46075	25194	2.25	1.51
Wheat	HD -2967	Raised Bed Planting # ZT	75	89	52	38	66	62	65825	25194	2.79	1.51
Wheat	HD -2967	Community Irrigation	15	9	53	38	67	60	67800	25194	2.84	1.51
Wheat	HD -2733	Nutrient expert/green seeker based nutrient management	25	19	48	38	61.5	59	57925	25194	2.57	1.51
Total/ Average			**415**	**495**	**49.25**	**38**	**62.94**	**59.25**	**60148**	**5194**	**50194**	**1.64**	**1.51**

Performance validation on yield and economics of other crops under different interventions during Rabi 2021-22

Crop	Variety	Technology	Demonstration (Acre)	No of Beneficiaries	Grain yield (q/ha)		Straw yield (q/ha)		Net Return (INR)		B: C Ratio	
					Demo	Local check	Demo	Local check	Demo	Local check	Demo	Local check
Mustard	R. Suflam	Raised bed planting	50	76	21	16.24	37	32	63078	36954	2.82	1.96
Maize	RHM-4	Raised bed planting	70	79	72	62	109	98	84985	56944	2.71	1.97
Lentil	IPL-316	Zero Tillage	50	74	11.2	9	16	12	33799	19690	2.45	1.75
Maize+ Potato	RHM-4 + K. Bahar	Intercropping	30	40	341	318	302	270	232187	170702	2.99	2.15
Potato	K.Bahar	Potato based farming system	3	7	277	261	193	172	136192	98931	2.59	1.90
Total/ Average			**203**	**276**	**144.44**	**133.248**	**131.4**	**116.8**	**110048.20**	**76644.2**	**2.71**	**1.94**

Photograph of Rabi Season 2021-22

Wheat Sowing through ZT machine

Zero tillage wheat

Establishment stage of Wheat

Maturity stage of wheat

Sowing of potato through potato planter

Harvesting of potato at farmer field

Summer Season 2022					
Sr.no.	**Crop**	**Technology**	**Targeted area (Acre)**	**Achieved area (Acre)**	**No. of Beneficiary**
1	Moong bean	Zero tillage	250	250	**276**

Performance validation on yield and economics of Greengram under CRA interventions during Summer 2022

Crop	**Variety**	**Technology**	**Demonstration (Acre)**	**No of Beneficiaries**	**Grain yield (q/ha)**		**Straw yield (q/ha)**		**Net Return (INR)**		**B:C Ratio**	
					Demo	**Local check**	**Demo**	**Local check**	**Demo**	**Local check**	**Demo**	**Local check**
Greengram	IPM-205-7/ Virat	Zero Tillage	250	276	10.2	7.5	23	17	49039	25875.5	2.95	1.90

Mung bean Sowing through ZT machine

Establishment of mungbean under zero till plot

Grain filling stage of moong bean

Kharif Season 2022					
Sr.no.	**Crop**	**Technological Interventions**	**Targeted area (Acre)**	**Achieved area (Acre)**	**No. of Beneficiaries**
1	Paddy	Direct Seeded Rice (ZT+Drum seede+Broadcasting)	300	300	358
2	Arhar	Raised bed planting	50	50	65
3	Maize + Arhar	Intercropping	70	70	82
4	Paddy	Alternate wetting/ drying irrigation	60	60	68
5	Paddy	Water harvesting & field bunding	40	40	45
6	Maize	Raised Bed Planting	30	30	35
7	Paddy	NE/green seeker based nutrient management	25	25	32
8	Paddy	Community Irrigation	20	15	09
Total			**595**	**590**	**694**

Performance validation on yield and economics of Rice under different interventions during Kharif 2022

Crop	Variety	Technology	Area Demonstrated (Acre)	No of Beneficiaries	Grain yield (q/ha)		Straw yield (q/ha)		Net Return (INR)		B: C Ratio	
					Demo	Local check	Demo	Local check	Demo	Local check	Demo	Local check
RICE	Rajshree	Direct Seeded Rice (ZT+Drum seeder+Broadcasting)	35	42	37.8	36.5	45.65	47.35	60900	35805	2.19	1.38
	R. Mahsuri	Direct Seeded Rice (ZT+Drum seeder+Broadcasting)	60	72	40.0	36.5	48.2	47.35	65260	35805	2.17	1.38
	R. Neelam	Water harvesting & field bunding in rice	40	45	40.4	36.5	49.13	47.35	64625	35805	2.14	1.38
	R.Bhagwati	Direct Seeded Rice (ZT+Drum seeder+Broadcasting)	5	6	37.4	36.5	45.78	47.35	58735	35805	2.11	1.38
	R. Neelam	Direct Seeded Rice (ZT+Drum seeder+Broadcasting)	70	82	41.6	36.5	50.25	47.35	53749	35805	2.40	1.38
	R.Neelam	Alternate wetting/ drying irrigation in rice	60	68	37.4	36.5	46.28	47.35	59475	35805	2.16	1.38
	R. Sweta	Direct Seeded Rice (ZT+Drum seeder+Broadcasting)	75	90	34.9	36.5	42.88	47.35	38284.25	35805	1.96	1.38
	R. Suwasni	Direct Seeded Rice (ZT+Drum seeder+Broadcasting)	55	66	37.4	36.5	46.11	47.35	63650	35805	2.02	1.38
	R. Mahsuri	Community Irrigation	15	9	46.8	36.5	61.3	47.35	72065	35805	2.44	1.38
	R.Neelam	Nutrient expert/green seeker based nutrient management	25	32	40.8	36.5	50.35	47.35	67480	35805	2.30	1.38
Total/ Average			**440**	**512**	**39.45**	**36.5**	**48.593**	**47.35**	**60422**	**35805**	**2.19**	**1.38**

Performance validation on yield and economics of other crops under different interventions during Kharif 2022

Crop	Variety	Technology	Area Demonstrated (Acre)	No of Beneficiaries	Grain yield (q/ha)		Straw yield (q/ha)		Net Return (INR)		B : C Ratio	
					Demo	Local check	Demo	Local check	Demo	Local check	Demo	Local check
Maize	Vikrant 5522	Raised bed	30	45	68.7	61.2	51.7	42.5	78942	58594	2.41	1.95
Arhar	Rajendra Arhar-1	Raised bed	50	65	15	11	51	48	64749	33655	2.89	1.86
Arhar+Maize	Rajendra Arhar-1+Vikrant 5522	Intercropping	70	82	83.7	72.2	102.7	90.5	134027	76781	2.80	1.87
Total/ Average			**150**	**192**	**55.8**	**48.13**	**68.47**	**60.33**	**92572.67**	**56343.33**	**2.70**	**1.89**

Capacity Building Programme:

Year	No. of events		Male	Female	Total number of beneficiaries
	Physically (Offline)	**Virtual**			
2020 (October to December)	10	00	251	65	316
2021 (January to December)	71	08	2511	375	2886
2022 (January to November)	68	00	2608	410	3018
Total	**149**	**08**	**5370**	**850**	**6220**

Photograph of Kharif Season 2022

DSR through Zero tillage Machine

Tillering Stage DSR Zero tillage

Maize Sowing through Raised bed planting machine

Establishment stage of Maize

Mr. Rajesh Meena, Hon'ble DM of Saran visited CRA LTCSE plots at KVK Manjhi, Saran


Director Research RPCAU Pusa visited long term cropping system experiment at KVK


CRA Team of RPCAU Visited CRA Plots at CRA Village

Capacity Building Programme


Exposure visits of Non CRA farmers at CRA Village and KVK Long term cropping system experiment


Farmers Training / Kisan Gosthi at CRA Villages

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.	Cattle	0.0023	2 bull	24000	34800	4	9.65
2.	Goatry	0.0023	4 goats	8000	10000	4	4.21
3.	Azolla	0.000828	360	12000	18000	4	15.62
4.	Composting (Vermicompost + NADEP unit)	0.002208	50	25462	50000	4	18.25
5.	Fish	0.13248	0.25	32573.52	4500	4	10.54
6.	Fodder	0.0736	23.92	1579.0144	16744	4	6.52
7.	Horticulture (Vegetable and fruits)	0.17664	65.18016	11614.08	52144	4	12.24

Fish pond

Alley cropping

Vermicomposting

Vermicomposting unit

NADEP unit

Azolla and fodder

B) Activities under IFS :

A total of three pond based IFS model developed in participatory mode amongst the farming clientele namely Sri Vijay Kishore, village: Chaukhra, Jalalpur, Mr. Prem

Prakash, Village: Nandpur, Manjhi and Mr. Prabhunath Singh, village: Koriganwa Bharti, Jalalpur.

1. Farmer Name- Sri Vijay Kishore-Pond based IFS model

Sl. No.	Component Name	Area (ha)/Nos.	Net return (Rs/component)
1.	Fish pond	0.202	140000
2.	Bio-flock	5 nos. tank	50000
3.	Dairy Animal	2	36540
4.	Cereals crop	2.0	33000
5.	Horticultural crops (fruits and vegetables)	0.25	2950
6	Azolla	0.0005	2000
7	Composting	0.0005	3000
Total			**267490**



2. Farmer Name- Mr. Prem Prakash -Pond based IFS model

Sl. No.	Component Name	Area (ha)/Nos.	Net return (Rs/component)
1.	Fish pond	0.497	180000
2.	Dairy Animal	3	56750
3.	Cereals crop	1.659	82000
4.	Horticultural crops (fruits and vegetables)	0.220	62500
Total			**381250**



3. Farmer Name- Mr. Prabhunath Singh -Pond based IFS model

Sl. No.	Component Name	Area (ha)/Nos.	Net return (Rs/component)
1.	Fish pond	0.101	36700
2.	Dairy Animal	3	62500
3.	Cereals crop	0.101	41612

4.	Horticultural crops (fruits and vegetables)	0.043	24000
5.	Azolla	0.0004	2500
6	Composting	0.0006	4000
Total			**171312**



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.	*In situ* moisture conservation through plastic mulching	• Enhance the healthy growth of tomato plant. • Reduces the weeding cost of farmers, plastic mulching control the 100% weed. • Saving the two irrigations.	252460	21	
2.	Integrated nutrient management (INM) in banana	• INM synchronizes the nutrient demand of the crop with nutrient supply from native and applied sources. • Provides balanced nutrition to crops and	338460	85	

		minimizes the antagonistic effects resulting from hidden deficiencies and nutrient imbalance. • Promoting carbon sequestration, reducing nutrient losses to ground and surface water bodies and to atmosphere.			
3.	Fish farming through bio- flock	• Reduces the need for water exchange and water usage in aquaculture systems • Helps in maintaining the water quality which reduces water treatment expenses for farmers. • Capable to remove nitrogen in cases of high biological oxygen demand (BOD) and presence of organic matter in water.	150000 (5 units)	18	
4.	Protected capsicum cultivation	• Provides the better growing environment for plants. • Protects from rain, wind, high temperatures and minimizes the damage	682250	7	

		of insect pests and diseases thereby improving the quality and yield. • Facilitates year round production coupled with yield enhancement by 2-3 times compared to open cultivation.			
5.	Zero tillage technology in rice-wheat cropping	• It reduces the cost of cultivation, also reduce the soil erosion, crop duration and irrigation requirement and weed effect. • Minimum disturbances of soil that helps in carbon sequestration . • Early/timely sowing of crop enhanced the crop productivity.	85000	300	
7.	Round year production of button mushroom under air/non air condition chamber	• Due to high nutritional value of mushroom the farmers are interested to cultivate in both off and on season. • Its medicinal effects on tumour, hepatitis B, diabetes and various other diseases. • Mushroom cultivation consists of	425000	90	

		six steps i.e., composting, fertilizing, spawning, casing, pinning and cropping.			
8.	Pond based Integrated Farming System	• Increase economic yield per unit area per unit time by virtue of intensification of crop, fish and allied enterprises • Use waste material of one component at the least cost. Thus reduction of cost of production and form the linkage of utilization of waste material, elimination of middleman interference in most input used. Working out net profit is increased. • Due to interaction of enterprises with crops, fish, eggs, milk, mushroom they provides flow of money to the farmer round the year.	171486	15	

9.	Composite fish culture	• It involves cultivation of multiple species of fish in the same system, which can increase productivity and income of farmers. • Recycle nutrients within the system, leading to improved water quality and reduced waste. • Increase the resilience of a fish farming operation, as different species may have different tolerance levels to environmental stressors.	385350	145	
10.	Intercropping of potato + maize	• Inter cropping of potato with maize crops improves the land equivalent ratio, increases ground cover. • Additional income from companion crops. • Stability of production, and maximization of products, soil fertility and pest control.	205150	1800	

12.	Crop diversification through high yielding mustard (cv. *Rajendra suphalam*)	• A shift from less profitable cropping system to more profitable cropping system. • Enhanced the net returns and overall system productivity of a farm.	56020	785	
13.	Inclusion of green gram in rice-wheat cropping	• Green gram as a leguminous crop uses as green manuring for soil resilience. • It improves the humus, organic carbon, and nitrogen and soil microbial growth in soil. • It has a capacity to fix the atmospheric nitrogen. • Being a short duration crop, it fits well in many intensive crop rotations.	102898	685	
14.	Organic potato cultivation	• Organic produces are environmentally healthy by reducing the level of pollution. • Organic cultivation helps in keeping agricultural production at	113000	15	

		a sustainable level. • Also reduces the cost of production and also ultimately improves the soil health.			
15.	Poultry farming	• The main purpose of Poultry Farming is the production of eggs, meat, etc. • Poultry Farming is among one of those businesses which give high-profit. • Don't require more capital. As it only needs less investment.	583709	62	

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					
II					
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, undertaken during 2022

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.)
2022	-	-	-	-	-	-	-

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs**., if any) if undertaken during 2022

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
Dr. J. C. Chandola (SMS- Horticulture)	-	-	-	10	225	-

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.	Durgapur	Backyard/Kitchen garden	6	3600	6
2.	-	Community level	-	-	-
3.	-	Terrace Garden	-	-	-
4.	Bareja	Vertical Garden	16	2500	16
TOTAL			22	6100	22

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
Bareja	Mushroom	Mushroom nuggets, mushroom papad	FLD	12

d. Training programmes in Nutri-Smart village

Name of Nutri Smart Village	Area of Training	No of courses	No. of beneficiaries
Nawada, Ekma	Vegetables	4	45
Babhanaiya, Garkha	Vegetables	2	36



e. Extension activities under NARI Project

Name of Nutri-Smart Village	Title of Activity	No. of activities	No. of beneficiaries
Vishunupura, Jalalpur	Awareness programme, Field visit	2	15
Dumduma, Manjhi	Diagnostic field visit, training programme on importance of lettuce	2	12
Sargatti, Garkha	Training and Field day	2	18
Fuchati Khurd, Ekma	Training on cultivation of cole crop	2	12
Karah, Baniyapur	Training on tuber crops, diagnostic field visit	2	18



23. Activities under KSHAMTA

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

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

C. Livestock and Fishery related activities

Name of programme	No. of Programme	Activities performed				No. of farmers benefited									No. of other officials (except KVK) attended the programme
		No. of animals vaccinated	No. of animals dewormed	Feed/ nutrient supplements provided (kg)	Any other (Distribution of animals/ birds/ fingerlings) [No.]	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
KKA-I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	-	-	-	-	-	-	-	-	-	-
	Farm implements distributed	-	-	-	-	-	-	-	-	-	-
	Others, if any	-	-	-	-	-	-	-	-	-	-

Krishi Kalyan Abhiyan- III

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

25. ARYA

KVK	No. of entrepreneurial units established	No. of Training programs organized	No. of rural youth trained		No. of youth established units	
			Male	Female	Male	Female
-	-	-	-	-	-	-
-	-	-	-	-	-	-

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

(a) Experimental trial on Pigeon pea trial- 2022-23, DRPCAU, Pusa

Date of sowing	Date of harvesting	Treatment nos.	Yield range (q/ha)	Remarks
3 July 2022, 12 July 2022 and 21 July 2022	17 December – 20 December 2022	10	17.2-21.9	**Investigator:** Dr. Abhay Kumar Singh, Head KVK, Saran. Co-Investigator(s): • Dr. Ratul Moni Ram, SMS (Plant Protection • Dr. Vijay Kumar, PA (Lab. Tech.)

(B) Natural Farming Programme:

No. of Awareness Programme Conducted	No of Demo	No of Training	Co-PIs
05	02	01	Dr. Abhay Kumar Singh and Dr. Jitendra Chandra Chandola

(C) Drone Demonstration

Total Expected Area of Demonstration	Total demonstration conducted	Co-PIs
250 Acre	0	Dr. Abhay Kumar Singh & Dr. Saurabh Shankar Patel

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


Training and Kisan Gosthi conducted by KVK Saran on different thematic area




Distribution of critical inputs to farmers clientale



कृषि यांत्रिकरण मेला (2022
श्री राजेश मीणा
दिनांक – 28 एवं


KVK SARAN


किसान ड्रोन
किसान ड्रोन को बढ़ावा : मुद्दे, चुनौतियां और आगे का रास्ता
KISAN DRONES
PROMOTION OF KISAN DRONES : ISSUES, CHALLENGES AND WAY FORWARD
ए.पी. शिंदे हॉल, राष्ट्रीय कृषि विज्ञान केंद्र, पूसा कॉम्प्लेक्स, नई दिल्ली
A. P. SHINDE HALL, NATIONAL AGRICULTURE SCIENCE CENTRE, PUSA COMPLEX, NEW DELHI
2 मई, 2022
2nd MAY 2022
GOVERNMENT OF INDIA


बिहार कृषि
Agronomy
Soil Science


संचार केन्द्र SANCHAR KENDRA
प्रसार शिक्षा निदेशालय
DIRECTORATE OF EXTENSION EDUCATION


कृषि विज्ञान केंद्र, मांझी, सारण


RECEPTION

Presence of KVK Saran in Kisan Mela, Workshop

KVK Saran presence in organisation of mela programme like Gareen Kalyan Sammelan, Poshan Vatika Programme, PM Kisan Samman Nidhi




Diagnostic field visit by KVK Saran Team


Dignitories visit at KVK Saran

Exposure visit in KVK Saran








Various field activities by KVK Saran Team

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