## Annual Progress Report

## (January, 2022 – December, 2022)



## **Government of India**

Submitted

by



# KRISHI VIGYAN KENDRA

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## PROFORMA FOR ANNUAL REPORT 2022 (1<sup>st</sup> January- 31<sup>st</sup> December 2022)

## 1. GENERAL INFORMATION ABOUT THE KVK

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

Telep	ohone	E-Mail
Office	FAX	E-Iviaii
287797161	_	head.kvk.narkatiyaganj@rpcau.ac.in
	Office	

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

Name and address of Host	Tel	ephone	E mail
Organization	Office	FAX	E mail
DRPCAU, Pusa, Samastipur-	06274-240226	06274-240255	vc@rpcau.ac.in
848125, Bihar			

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

Nome	Telephone / Contact				
Name	Residence	Mobile	Email		
Dr RP Singh	-	9532460717	head.kvk.narkatiyaganj@rpcau.ac.in		
		Facebook	Krishi Vigyan Kendra West Champaran-II		
		WhatsApp's	6287797161		

1.4. Year of sanction of KVK: 2019

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. R. P. Singh	Senior Scientist and Head	Plant Pathology	Rs.131400-217100 with present basic: Rs.139400.00	19/09/2020	Permanent	Others
2.	Subject Matter Specialist	Dr. Bhushan Kumar Singh	Subject Matter Specialist	Animal Science (Veterinary Science)	Rs 56100-177500 with present basic: Rs. 57800.00	07/03/2022	Permanent	OBC
3.	Subject Matter Specialist	Dr. Gagan Kumar	Subject Matter Specialist	Plant Protection (Plant Pathology)	Rs 56100-177500 with present basic: Rs. 57800.00	13/03/2022	Permanent	OBC
4.	Subject Matter Specialist	Mr. Abhik Patra	Subject Matter Specialist	Crop Production (Soil Science)	Rs 56100-177500 with present basic: Rs. 57800.00	12/03/2022	Permanent	OTHERS
5.	Subject Matter Specialist	Er. Pankaj Malkani	Subject Matter Specialist	Agricultural Engineering (Farm machinery and power)	Rs 56100-177500 with present basic: Rs. 57800.00	04/05/2022	Permanent	OTHERS
6.	Subject Matter Specialist	Vacant						
7.	Subject Matter Specialist	Vacant						
8.	Programme Assistant	Vacant						
9.	Computer Programmer	Vacant						
10.	Farm Manager	Vacant						
11.	Accountant / Superintendent	Vacant						
12.	Stenographer	Vacant						
13.	Driver	Filled	Driver (Bolero/Jeep)	M. Sc. Physics, MBA	Rs. 21700-69100/- with present basic pay: Rs. 21700/-	10/03/2021	Permanent	Others (EWS
14.	Driver	Filled	Driver (Tractor)	B. Com.	Rs. 21700-69100 with present basic pay: Rs. 21700/-	01/03/2021	Permanent	OBC
15.	Supporting staff	Filled	Supporting staff	Graduate	Rs. 18000-56900/- with basic pay: Rs. 18000/-	27/02/2021	Permanent	OBC
16.	Supporting staff	Filled	Supporting staff	Graduate	Rs. 18000-56900/- with basic pay: Rs. 18000/-	27/02/2021	Permanent	OBC

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

Total area should be matched with breakup

### 1.7. Infrastructure Development:

A) Buildings and others

S. No.	Item	Area (ha)
1	Under Buildings	1.25
2.	Under Demonstration Units	-
3.	Under Crops	16
4.	Orchard/Agro-forestry	-
5.	Others with details	1.45
	Total	18.7

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	Yes				$\checkmark$			ICAR-ATARI, Patna
2.	Farmers Hostel	No				$\checkmark$			ICAR-ATARI, Patna
3.	Staff Quarters (6)	No							
4.	Piggery unit	No							
5	Fencing	Old wire fencing almost damaged. Needs to be constructed							
6	Rain Water harvesting structure	No							
7	Threshing floor	Yes. Old needs to be repaired						Yes	
8	Farm godown	Old						Yes	
9.	Dairy unit	No							
10.	Poultry unit	No							
11.	Goatry unit	No							
12.	Mushroom Lab	No							
13.	Mushroom production unit	No							
14.	Shade house	No							
15.	Soil test Lab	No							
16	Others, Please Specify								
* If no	t in use then since when and re	acon for non yes							

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

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### B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Bolero	2020	755309.00	24263 km	Good
Bike	2020	50666.00	6976 km	Good
Scooty	2020	50248.00	1880 Km	Good

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment: There is no lab	o equipment			
b. Farm machinery: No				
c.AV Aids: No				

#### D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Tractor	2020	702856.64	Good	ICAR
Tractor	2021	-	Good	CRA project
Disc plough	2021	-	Good	CRA project
Tractor Trolley	2021	-	Good	CRA project
Happy seeder (2 nos)	2021	-	Good	CRA project
Cultivator	2021	-	Good	CRA project
Laser leveler	2021	-	Good	CRA project
Rotavetor	2021	-	Good	CRA project
Multi crop planter (2 nos.)	2021	-	Good	CRA project
Reeper-cum-binder	2021	-	Good	CRA project
Zero tillage machine	2021	-	Good	CRA project
Drum seeder (9 nos.)	2021	-	Good	CRA project

## 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.	25.08.2022	25	1. DAHO West Champaran suggested for enhancement of <i>Azolla</i> Production & to test the impact of <i>Azolla</i> in milk production.	Azolla production unit working in the KVK premises & OFT entitled "Assessment of azolla feeding on milk production in dairy cow" taken for observing the impact of Azolla feeding in milk production.	-
			<ol> <li>Dr. Shivendra Kumar Associate Professor COFs, Dholi, Suggested for enhancing the activities in Tilapia fish &amp; Prawn production.</li> </ol>	Work is being done in this direction	-
			<ol> <li>Sri Kuwar Singh, Dy. Director Sugarcane development. Motihari suggested for observing the adoption of different verities of sugarcane &amp; also suggested for establishing the sugarcane cafeteria in KVK farm.</li> </ol>	Work is being done in this direction & sugarcane cafeteria with different verities and different intercropping is developed in KVK farm.	-
			<ol> <li>Sri Rocky Rawat, Associate Director Plant Protection suggested for organisation training programme on disease &amp; pest infestation in different crops.</li> </ol>	Training is conducted on disease & pest infestation in different crops.	-
			<ol> <li>Dr. P.K. Gupta Vice President, Magadh sugar mill suggested for taking the work on red-rot in sugarcane.</li> </ol>	OFT entitled "Assessment of technology for red rot management in sugarcane" taken for the purpose.	-
			6. Sri M.L. Sharma, Assistant General Manager, Harinagar sugar mill suggested for the availability of breeder seeds of Rajendra verities of sugarcane and also suggested for undertaking the trials on biological control method for management of palasi borer & red-rot disease in sugarcane	Breder seed of R-1 verity of sugarcane is available in KVK for the farmers, work is being done in this direction.	-
			<ol> <li>SDAO, Narkatiaganj and Bagaha demanded for starting the INM training.</li> </ol>	Work is being done in this direction	

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8. Dr. P.P. Srivastava, Dean COFs, Work is being started in this	
Dholi suggested for increasing the direction.	
publications & also suggested for	
providing trainings for SMSs from	
different premium agricultural	
institution & purchase of good	
quality cameras for taking good	
quality pictures & videos.	
9. Dr. M S Kundu Director Extension Work is being started in this	
RPCAU, Pusa suggested for direction	
displaying flex on complete	
information on important diseases	
and pests of different crops, to	
conduct the soil testing in KVK, to	
prepare comparative data on STT &	
Traditional method of sugarcane	
cultivation, to regular updating of	
KVK portal, to paste the	
Newspaper cutting in the register,	
to prepare record on compression	
of different parameters of solar	
energy irrigated & rain water	
irrigated cultivation also suggested	
for taking the records on different	
parameters of drip irrigation in	
sugarcane field in the month of	
February, to take records on wheat	
harvesting by use of riper cum	
binder & prepare map of KVK for	
display in the office.	
10. Sri Gopal Kumar Pandit, DDM, Work is being started in this	
NABARD suggested for direction	
establishment of fodder cafeteria,	
got farming & poultry unit in KVK	
farm.	
11. Farmer representative Sri Anand Sugarcane cafeteria with different	
Singh suggested for demonstration verities and different intercropping	
of STT method of sugarcane & is developed in KVK farm.	
intercropping in sugarcane.	
12. Farmer representative Sri Raghav Work is being started in this	
Sharan suggested for recording the direction.	
cost benefit of laser land levelling,	
direct sowing of rice, zero tillage	
uncer sowing of nee, zero unage	

cultivation of wheat for propagation	
among the farmers.	

\* Salient recommendation of SAC in bullet form Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2021)

Sl. No.	Items	Information
1	Major Farming system/enterprise	Agriculture + Livestock, Agriculture + Poultry, Agriculture +
		Fisheries, Crop Production + Vegetable Production, Agriculture +
		Poultry + Fish farming, Agri. + Goat rearing
2	Agro-climatic Zone	Zone-I (North West Alluvial Plain Zone)
3	Agro-ecological situation	Hot Sub-humid (moist), Eco-sub region
4	Soil type	Sandy loam, Coarse sandy loam, Fine sandy loam and loamy soil
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Sugarcane-680 q/ha, Rice- 30 q/ha, Wheat- 29.6 q/ha
6	Mean yearly temperature, rainfall, humidity of the district	Max temp- 41.6°C, Min temp- 6°C, Rainfall-1300mm, RH-88%
7	Production of major livestock products like milk, egg, meat etc.	

Note: Please give recent data only

## 2.b. Details of operational area / villages (2022)

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
	Narkatiaganj	Narkatiaganj	Samhauta	Sugarcane, Rice, Wheat and Vegetables	Lack of improved variety, Low socio-economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization
			Narkatiaganj	Sugarcane, Rice, Wheat and Vegetables	Lack of improved variety, Low socio-economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization
			Ajauaa	Sugarcane, Rice, Wheat and Vegetables	Lack of improved variety, Low socio-economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization
			Barnihar	Sugarcane, Rice, Wheat and Vegetables	Lack of improved variety, Low socio-economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization
	Bagha	Bagha-2	Santpur	Sugarcane, Rice, Wheat, Oilseed and Vegetables	Lack of improved variety, Low socio-economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization

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	Rampuwa	Sugarcane, Rice, Wheat,	Lack of improved variety, Low socio-economic status,	Promotion of HYVs and
	harijan tola	Oilseed and Vegetables	lack of farm mechanization	farm mechanization
	Jhanduaatola	Sugarcane, Rice, Wheat, Oilseed and Vegetables	Lack of improved variety, Low socio-economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization
	Bairagi Sonbersa	Sugarcane, Rice, Wheat, Oilseed and Vegetables	Lack of improved variety, Low socio-economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization
	Gurwaliya	Sugarcane, Rice, Wheat, Oilseed and Vegetables	Lack of improved variety, Low socio-economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization
Bagha-1	Salha	Sugarcane, Rice, Wheat, Oilseed and Vegetables	Lack of knowledge about improved variety, Low socio- economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization
 Bagha-1	Rajwatia	Sugarcane, Rice, Wheat, Oilseed and Vegetables	Lack of knowledge about improved variety, Low socio- economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization

Gaunaha	Hardi	Sugarcane, Rice, Wheat, Oilseed and Vegetables	Lack of knowledge about improved variety, Low socio- economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization
Ramnagar	Sonebersa	Sugarcane, Rice, Wheat, Oilseed and Vegetables	Lack of knowledge about improved variety, Low socio- economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization
	Katsikari	Sugarcane, Rice, Wheat, Oilseed and Vegetables	Lack of knowledge about improved variety, Low socio- economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization
	Harpur	Sugarcane, Rice, Wheat, Oilseed and Vegetables	Lack of knowledge about improved variety, Low socio- economic status, lack of farm mechanization	Promotion of HYVs and farm mechanization

## 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
Katsikari	Ramnagar	FLD and promotion of intercropping and STT in sugarcane
Barnihar	Narkatiaganj	CFLD and promotion of STT in sugarcane

## 2.1 Priority thrust areas

S	.No.	Crop/Enterprises	Thrust Area
1.	•	Sugarcane	Promotion of HYVs with intercropping and IPM/IDM practices for quality seed production & yield maximization
2.	•	Rice	Promotion of HYVs and introduction of IPM/IDM strategies

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3.	Farm	Promotion of farm mechanization in cultivation practices of crops for cost and drudgery reduction & yield maximization
	mechanization	
4.	Vegetable crops	Introduction of HYVs, INM, IPM and IDM strategies
5.	Drudgery reduction	Promotion of weed management tools, maize sheller, groundnut decorticator (sitting type) etc.
6.	Rabi pulses	Promotion of HYVs of rabi pulses for nutritional security
7.	Oilseed crops	Promotion of HYVs, INM, IPM and IDM strategies
8.	RCT	Promotion of Resource Conservation Technology
9.	Livestock	Raising productivity of livestock by upgrading the genetic potential by artificial insemination and use of mineral mixture,
		disease and parasitic control, proper feeding and management
10.	Kitchen gardening	Kitchen gardening for production of nutritional food by women farmers
11.	IFS	Promotion of IFS for income generation and nutritional security
12.	Orchard	Promotion of IPM, IDM and INM practices in mango, litchi etc. orchard
	management	
13.	Hygienic produce production	Promotion of use of bio-fertilizers, bio-pesticides and organic manures

## 3. <u>TECHNICAL ACHIEVEMENTS</u>

## 3.1. Summary details of target and achievement of mandatory activities by KVK during the year2022

		FLD																						
No. of techr	nologies tested:	No. of technologies demonstrated:																						
Numbe	er of OFTs				Num	ber o	of farr	ners				Numb	per of FLDs			N	lumbe	er of fa	rmers					
						Α	chiev	ement	I									Ach	nievem	ent				
Target	Achievement	Target	S	С	S	Т	Oth	ners		Tot	al	Target	Achievement	Target	S	С	S	Т	Othe	ers		Tota	1	
			Μ	F	Μ	F	Μ	M F M F T							Μ	F	М	F	Μ	F	Μ	F	Т	
3	3	21	0	0	2	0	18	1	20	1	21	6	6	85	7	7	14	0	56	5	76	9	85	

				Training			Extension activities									
Number of	of			Number of F	Participants		Num	ber of			Numbe	er of participants				
Courses	5						activ	vities								
Targ Ac	hi	<b>.</b>		Ac	hievement		Tar	Achi	Targe			Achievement				
et ev	ve <sup>1</sup>	arget	SC-	ST	Others	Total	get	eve	t	SC	ST	Others	Total			

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_																							14
	men t		М	F	М	F	М	F	М	F	Т		men t		М	F	М	F	М	F	М	F	Т
87	87	2610	368	133	180	21	1763	132	2311	317	2628	700	726	90500	19824	9587	6705	4708	77766	1851	104295	16146	120441

	Imj	pact of	capac	city bu	ilding				Impact of Extension activities																											
		Nu	mber o	of Trai	inees g	ot em	plovm	ent (se	Number of Participants         Number of participants got employment (self/ was									age/																		
Number of Pa	rticipants trained			reneur								ended						skilled																		
Target	Achievement	t Achievement		rget Achievement		Achievement		et Achievement		Achievement		Achievement		arget Achievement		Target Achievement		С	S	Т	Otł	ners		Total	l	Target	Achievement	S	С	S	Т	Oth	ners		Total	
			F	Μ	F	М	F	Μ	F	Т			Μ	F	Μ	F	Μ	F	Μ	F	Т															

Seed pro	duction (q)	Planting mate	rial (in Lakh)	
Target	Achievement	Target Achievement		
400	511.61	90000	93209	

Livestock strains and fish fin	gerlings produced (in lakh)*	Soil, water, plant, manures	s samples tested (in lakh)	
Target	Achievement	Target Achievement		
0	0	0.018	0.018	

\* Give no. only in case of fish fingerlings

	Publication by KVKs												
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication						
Research paper	14	14	14	9.87	3.45								
Review papers	02	02											
Books	02	02											
Bulletins	01	01											
News published in News letter	05	05											
Popular Articles	09	09											
Book Chapter	-	-											
Extension Pamphlets/ literature	97	97											
Folder	04	04											
Technical reports	04	04											
Electronic Publication (CD/DVD etc.)	-	-											
Abstract of research paper	24	24											

	(Abstracts)	(Abstracts)			
Newspaper coverage	52	52			
TOTAL	214	214			

3.1.1Achievements on technologies assessed and refined

## **OFT-1 (Plant Protection)**

1.	Title of On farm Trial	Integrated approach for management of brinjal fruit and shoot borer
2.	Problem diagnosed	Low yield and poor quality due to severe infestation on fruit and shoot borer
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers practice: Indiscriminate use of chemicals TO 1: Use of pheromone trap @ 80s traps/ha TO 2: Lamdacyhalothrin 5% EC @ 0.6ml/litre of water
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIVR, Varanasi
5.	Production system and thematic area	Insect pest Management
6.	Performance of the Technology with performance indicators	Yield (q/ha), No. of affected plants/10m <sup>2</sup> , No. of damaged fruits/plant, B:C ratio
7.	Final recommendation for micro level situation	Use of IPM practices for effective management of brinjal fruit and shoot borer
8.	Constraints identified and feedback for research	The farmer is enthusiastic to adopt the scientific package of practices for IPM technology in brinjal.
9.	Process of farmers participation and their reaction	Field visit and field days

## Thematic area: Integrated pest management (IPM)

Problem definition: Low yield and poor quality due to severe infestation on fruit and shoot borer

Technology assessed: Use of pheromone trap @ 80s traps/ha and application of lamdacyhalothrin 5% EC @ 0.6ml/litre of water

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Table:

		Performance of technology		Insact post		Cost of				
Technology option	No. of trials	No. of affected plants/10 m <sup>2</sup>	Total fruits/plant	No of damaged fruit/plant	Insect pest incidence (%)	Yield (q/ha)	cultivation (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	BC ratio
FP		6	40	12	30	300	36500	155000	118500	3:20
TO1	08	4	40	9	22.5	425	34500	212500	178000	5:15
TO2		2	40	7	17.5	485	35000	242500	207500	5:92

*Results:* Performance of IPM technologies were found most effective to control fruit and shoot borer as reported least number of affected plants/10m<sup>2</sup> as well as damaged fruits/plant. The fruit damage on an average was also reduced by 17.50% compared to 30.00% in farmers practice. The average yield registered 61.67% higher with use of IPM components over farmers' practice. Average net profitability of worth Rs. 207500/ha as compared with farmers practices (Rs. 118500/ha) were obtained and average benefit cost ratio i.e. 5.92 and 3.20 were recorded in demonstrated plot and farmers practice respectively. The integrated pest management technologies were found safe to natural enemies and their efficacy have good impact over crop yield parameters. By this way, the adaptation of IPM technologies and obtaining production can be improved their livelihood insecurity and income of the farming communities as well as environmental protection also.

1.	Title of On farm Trial	Improvement of nitrogen use efficiency in wheat
2.	Problem diagnosed	Excessive use of chemical fertilizer and spiraling price of urea leads to increase in cost of cultivation
3.	Details of technologies selected for	<b>Farmers Practice:</b> RDF (N:P:K :: 100:40:20 kg ha <sup>-1</sup> )
	assessment/refinement	<b>TO-I:</b> 50% of RDN and 100% PK + nano urea @ 4 ml $lt^{-1}$ water (single
	(Mention either Assessed or Refined)	spray at 35 DAS)
		<b>TO-II:</b> 50% of RDN and 100% PK + 2 sprays of nano urea at (35 DAS)
		and (60-65DAS) @ 4 ml $lt^{-1}$ water
4.	Source of Technology (ICAR/	Proceeding of OFT finalization workshop on Agronomy/Soil Science for
	AICRP/SAU/other, please specify)	KVKs Bihar and Jharkhand (Zone-IV) held during 01-03 September, 2022
5.	Production system and thematic area	Nutrient use efficiency enhancement
6.	Performance of the Technology with performance indicators	• Soil data before and after (pH, EC, OC, NPK)

## **OFT – 2 (Crop Production)**

		<ul> <li>Yield data</li> <li>No. of effective tillers m<sup>-2</sup></li> <li>1000 grain wt.</li> <li>Panicle wt.</li> <li>Straw yield</li> <li>Economics</li> </ul>
7.	Final recommendation for micro level situation	Crop is standing and results awaitwd
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

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## Thematic area: Nutrient use efficiency enhancement

Problem definition: Excessive use of chemical fertilizer and spiraling price of urea leads to increase in cost of cultivation

Technology assessed: **Farmers Practice:** RDF (N:P:K :: 100:40:20 kg ha<sup>-1</sup>); **TO-I:** 50% of RDN and 100% PK + nano urea @ 4 ml lt<sup>-1</sup> water (single spray at 35 DAS); **TO-II:** 50% of RDN and 100% PK + 2 sprays of nano urea at (35 DAS) and (60-65DAS) @ 4 ml lt<sup>-1</sup> water

Table:

Technology	No. of	Y	ield component		Disease/	Yield	Cost of	Gross	Net return	BC
option	trials	No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)	insect pest incidence (%)	(q/ha)	cultivation (Rs./ha)	return (Rs/ha)	(Rs./ha)	ratio
Farmers Practice	06									
TO-I			Results: Resul	t awaited						
TO-II										

## **OFT – 3 (Crop Production)**

1.	Title of On farm Trial	Diversification of rice-based cropping systems
2.	Problem diagnosed	Low profitability of existing cropping system
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<b>Farmers Practice:</b> Rice – Wheat <b>TO-I:</b> Rice – Maize + Potato <b>TO-II:</b> Rice – Maize + Vegetable Pea
		<b>TO-III:</b> Rice – Wheat – Green gram
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Proceeding of OFT finalization workshop on Agronomy/Soil Science for KVKs Bihar and Jharkhand (Zone-IV) held during 01-03 September, 2022
5.	Production system and thematic area	Crop diversification
6.	Performance of the Technology with performance indicators	<ul> <li>Soil data before and after (pH, EC, OC, NPK)</li> <li>Rice equivalent yield qt ha<sup>-1</sup> of all crops</li> <li>Sole crop and intercropping cost of cultivation</li> </ul>
7.	Final recommendation for micro level situation	Crop is standing and results awaited
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

## Thematic area: Crop diversification

Problem definition: Low profitability of existing cropping system

Technology assessed: Farmers Practice: Rice – Wheat; TO-I: Rice – Maize + Potato; TO-II: Rice – Maize + Vegetable Pea; TO-III: Rice – Wheat – Green gram

Table:

Technology	No. of	Y	Yield component			Yield	Cost of	Gross	Net return	BC
option	trials	No. of	No. of	Test wt.	insect pest		cultivation	return $(\mathbf{D} a/\mathbf{h} a)$	$(\mathbf{D}_{\alpha}/\mathbf{h}_{\alpha})$	ratio
		effective tillers/hill	spikelet per panicle	(100 grain wt.)	incidence (%)	(q/ha)	(Rs./ha)	(Rs/ha)	(Rs./ha)	
Farmers	07									
Practice										
TO-I	07									
TO-II	07									
TO-III	07									

Results: Result awaited

Please provide all the OFTs in same format

## 3.1.2 Technology Assessed by KVK (Discipline wise)

	Technologies assessed under various crop;s by KVKs (Crop Production)			
	Thematic areas	Number of the technologies (Technology Interventions)	No. of trials	No. of Locations
1	Integrated Nutrient Management			
2	Varietal Evaluation			
3	Integrated Pest Management			
4	Integrated Crop Management			
5	Integrated Disease Management	1	8	8
6	Small Scale Income Generation Enterprises			
7	Weed Management			
8	Resource Conservation Technology			
9	Farm Machineries			
10	Integrated Farming System			
11	Seed / Plant production			

10	Post Harvest Technology / Value addition			2
12 13	Drudgery Reduction			
13	Storage Technique			
14	Others (Pl. specify) (Nutrient use efficiency enhancement)	1	6	6
15	Cropping Systems	1	7	7
17	Farm Mechanization	<b>I</b>	/	1
18	Others			
10	Total	3	21	21
	Technologies assessed under livestock by KVKs	No. of technologies		
	Thematic areas	(Technology Interventions)	No. of trials	No. of locations
1	Disease Management			
2	Evaluation of Breeds			
3	Feed and Fodder management			
4	Nutrition Management			
5	Production and Management			
6	Processing and value addition			
7	Others (Pl. specify)			
	Total	0	0	0
	Technologies assessed under various enterprises by KVKs			
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
1	Drudgery reduction			
2	Entrepreneurship Development			
3	Health and nutrition			
4	Processing and value addition			
5	Energy conservation			
6	Small-scale income generation			
7	Storage techniques			
8	Household food security			
9	Organic farming			
	Agroforestry management			

				21
11	Mechanization			
12	Resource conservation technology			
13	Value Addition			
14	Others			
	Total	0	0	0
	Technologies assessed under various enterprises for women empowerment			
		No. of technologies		
	Thematic areas	(Technology Interventions)	No. of trials	No. of locations
1	Drudgery Reduction			
2	Entrepreneurship Development			
3	Health and Nutrition			
4	Value Addition			
5	Others			
	Total	0	0	0

## Achievements of Frontline Demonstrations during 2022A. Details of FLDs conducted during the year 2022 3.2

Cereals

S1.	Creat		Technology Demonstrated	Area	(ha)					of far nonstr					Reasons for
No.	Crop	Thematic area	with detailed treatments	Proposed	Actual	S	-	S			ners		Total	-	shortfall in achievement
1	Sugarcane	Integrated Crop Management	Sugarcane settling transplanting technique	0.25	0.25	M 01	F 00	M 02	F 00	M 08	F 00	M 10	F 00	T 10	
2	Sugarcane	Integrated Crop Management	with detailed treatments     I       Sugarcane settling     I	0.25	0.25	00	00	04	00	06	00	10	00	10	Sowing in Autumn 2022 and crop is standing
3	Paddy	Agronomic bio- fortification	tillering, panicle initiation and pre-flowering stage @	2.0	2.0	1	0	5	0	14	0	20	0	20	
4	Wheat	Cultivation of bio- fortified wheat variety	Wheat variety DBW–187	2.0	2.0	0	2	0	0	7	1	7	3	10	Rabi crop is standing
			Total	4.50	4.50	2	2	11	0	35	1	47	3	50	

Details of farming situation

Sl. No.	Crop	Season	Farming situation (RF/Irrigated)	Soil type		Status (Kg/			Previous crop	Sowing date	Harvest date	Season al rainfall	No. of rainy
			(RI/IIIgated)		N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	OC				(mm)	days
1.	Sugarcane	Autumn 2021	Irrigated	Sandy loam to loam	180	26.9	110	0.47	sugarc ane	19/11/20 21	05/11/20 22	1130	52
2.	Sugarcane	Autumn 2022	Irrigated	Sandy loam to loam	180	26.9	108	0.46	sugarc ane	17/11/20 22	Crop is standing	1060	43
3.	Paddy	Kharif	Irrigated	Sandy loamy to loam	180	26.8	110	0.46	Wheat	22/06/20 22	26/11/20 22	1009	41
4.	Wheat	Rabi	Irrigated	Sandy loamy to loam	180	26.8	110	0.46	Paddy	08/12/20 22	Crop is standing	1009	41
5.	Paddy	Kharif	Rainfall	Sandy loam	180	26.8	110	0.46	wheat	28/06/20 22	18/11/20 22	1009	41

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	No. of	Area	Yield	(q/ha)	%	*Ec		f demonstrat s./ha)	tion	:		cs of check ./ha)	<u> </u>
Crop	Thematic Area	demonstrated	Farmers	(ha)	Demo	Check	Increase	Gross	Gross	Net	** BCR	Gross	Gross	Net	** BCR
								Cost	Return	Return	DUK	Cost	Return	Return	DUK
															<u> </u>

								23
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

#### Pulses

Frontline demonstration on pulse crops

Cron	Thematic Area	Name of the technology	No. of	armers (ha)	Yield	(q/ha)	%	*Ec		f demonstrat s./ha)	tion	:		cs of check s./ha)	
Crop	Thematic Area	demonstrated	Farmers	(ha)	Demo	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
	Total														

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

\*\* BCR= GROSS RETURN/GROSS COST

# Horticultural crops (separately Fruit, Vegetables, Flower, Medicinal and aromatics, etc.) Frontline demonstration on pulse crops

			N. C		Yield	(q/ha)	0/	*Ec		f demonstrat	tion	:		cs of check	
Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)		_	% Increase	Gross	(KS Gross	./ha) Net	**	Gross	Gross	s./ha) Net	**
				` <i>`</i>	Demo	Check		Cost	Return	Return	BCR	Cost	Return	Return	BCR

							24
Total							

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

Other crops

Cron	Thematic area	Name of the	No. of	Area	Yield (	q/ha)	% change	Other pa	rameters	*Eco	nomics of d (Rs./h		on	*]	Economics (Rs./h		
Crop	Thematic area	technology demonstrated	Farmer	(ha)	Demons ration	Check	in yield	IdOther parametersIdDemoCheckPlant heightPlant height428 cm; 8386 cmtillers/plant,tillers/plant,tillers/plant,tillers/plant,40 cm, cane32 cm,weight 1.7weightkgCrop isCrop is1Plant height1Plant height1paniclelength40cmcm	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Sugarcane	ICM	Sugarcane settling transplanting technique	10	0.25	1140	730	56.00	428 cm; 8 tillers/plant, cane width 40 cm, cane weight 1.7	Plant height 386 cm; 5 tillers/plant, cane width 32 cm, cane weight 1.3 kg	120,000	381,900	261,900	3.18	145,000	244,550	99,550	1.68
Sugarcane	ICM	Sugarcane settling transplanting technique	10	0.25	40 cm, cane weight 1.7     32 cm, cane weight 1.3       5     Crop is in standing				anding posi	tion and res	sult awaited	1	-		-		
Paddy	Agronomic bio- fortification	Foliar application of Zn at tillering, panicle initiation and pre- flowering stage @ 0.5% Zn	20	2.0	44.2	39.4	12.1	145 cm; 30 tillers/hill, panicle length 40	132 cm; 24 tillers/hill, panicle length 36	36200	90168	57626	2.49	35400	80376	48244	2.27
Wheat	Rabi	Cultivation of bio- fortified wheat variety	10	2.0	) Crop is star				standing a	nd result av	vaited		-				

24

#### Demonstration details on crop hybrid varieties

Crop	Name of the	No. of	Area		( <u>kg/ha) / major p</u>			Economic		
	Hybrid	Farmers	(ha)	Demo	Local check	% change	GrossCost	GrossReturn	NetReturn	BCR
Cereals										
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (Pl. specify)										
Total Cereals										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl. specify)										
Total Oilseeds										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (Pl. specify)										
Total Pulses										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (Pl. specify)			1	1						1

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

Catalan	Thematic	Name of the	No. of	No.of	Major pa	arameters	% change	Other pa	rameter	*Econor	nics of der	nonstration	n (Rs.)	*]	Economics (Rs		
Category	area	technology demonstrated	Farmer	units	Demons ration	Check	in major parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
Buffalo																	
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat	Disease Management	PPR vaccination and Fenbendazole deworming	25	100	Live animal- 97 Mortality- 3 animal	Live animal- 63 Mortality- 37	Mortality rate in demo- 3.09% Mortality rate in check- 58.73%	-	-	201100	485000	274000	2.41	200000	315000	115000	1.57
Duckery																	
Others (Pl.specify)																	
		Total	25	100	97	63	34	-	-	201100	485000	274000	2.41	200000	315000	115000	1.57

\* 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

Catalogue	Thematic	Name of the	No. of	No.of	Major par	rameters	% change	Other par	rameter	*Eco	nomics of (Ra	demonstra s.)	ation	*	Economic (R	s of checks.)	C
Category	area	technology demonstrated	Farmer	units	Demons ration	Check	in major parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common																	
carps																	
Mussels																	
Ornamental																	
fishes																	
Others																	
(pl.specify)																	
	Total					•		•	1	•			1		1		

\* 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**

Catagory	Name of the	No. of	No.of	Major par	rameters	% change	Other par	rameter	*Econo	mics of de or Rs		on (Rs.)			ics of cheor r Rs./unit	:k
Category	technology demonstrated	Farmer	units	Demons ration	Check	in major parameter	Demons ration	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

Cotosom	Norma of tashingle and	No. of demonstrations	Observat	ions	Remarks
Category	Name of technology	No. of demonstrations	Demonstration	Check	Remarks
Farm Women					
Pregnant women					
Adolescent Girl					
Other women					
Children					
Neonatal					
Infants					

### Farm implements and machinery

		Name of the			Grain (q/h			Gross	return Rs	/ha and B:C	C ratio	Cost reduction (Rs./ha or Rs./Unit)
Name of the implement	Crop	technology demonstrated	No. of Farmer	Area (ha)	Demons ration	Check	% Change in major parameter	Demons Ration (Rate 1750)	Check	Demons	Check	Demo
Manual Rice - wheats seeder	Paddy	Manual rice wheat seeder	10	2	50.2	49	2.45	89858	87710	2.14	1.71	9225

\* 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 machiner	ies				
Total					
Intercultural operation tools and machin	eries				
Total					

			29
Irrigation management tools and maching	neries		
Total			
Plant protection tools and machineries			
Total			
Harvesting tools and machineries			
Total			
Postharvest processing tools and maching	neries		 
Total			
Total mechanization tools and machiner	ies		
Total			
Others		 	 
Total			
Grand Total			

## Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1.	Paddy	Due to low and late rainfall causes damage to the early paddy growth and predominant zinc deficiency symptoms appears in the check plots
2.	Wheat	Due to late sowing the wheat crop growth performance is hampered and crop – weed competition suppresses the wheat growth
3.	PPR vaccination and Fenbendazole deworming in goat	Outbreak of PPR disease is prevented in covered goat population and also improvement in weight gain from past years.

## Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	03/10/2022, 16/10/2022, 16/11/2022 and 21/11/2022	4	45	
2.	Farmers Training	20/11/2022, 23/04/ 2022, 14/07/2022, 21/07/2022, 26/08/2022, 23/06/2022, 02/07/2022, 08/11/2022 and 23/12/2022	09	250	Aware for the PPR disease and endo- parasites in goat and their prevention method.
3.	Media coverage	28/06/2022	1		
4.	Training for extension functionaries				
5.	Animal Health Camp	21/11/2022	01	25	PPR vaccination and deworming done in goats.

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

## A. Technical Parameters:

SI.	Crop	Existing (Farmer's)	Existing yield	Yie. District	ld gap (K w.r.to State	-	Name of Variety +	Number	Area	Yield of	btained (	q/ha)	Yield	gap mir (%)	imized
No.	demonstrated	variety name	(q/ha) 7 years	yield (D)	yield (S)	Potential yield (P)	Technology demonstrated	of farmers	in ha	Max.	Min.	Av.	D	S	Р
1	Mustard	Local and mixed	8.50	7.68	11.8	580	Mustard var. Rajendra suflam-1 @ 5 kg/ha, Sulphur @ 30 kg/ha, PSB, Mancozeb, Imidacloprid	103	40	16.8	9.80	12.2	37.05	3.28	32.22
2	Lentil	Local and mixed	670	600	1124	1400- 1500	IPL-316, PSB, Rhizobium, Mancozeb, Imamactin benzoate	50	20	Crop	is standin	g in fiel	d and res	ult awa	ited

4	Mustard	Local and mixed	8.50	76.8	118	250	Imamactin benzoate Mustard var. DRMRIJ-31 (Giriraj) @ 5 kg/ha, Sulphur @ 5 kg/ha, Zinc @ 0.5% foliar, Boron @ 0.2% foliar, Mancozeb,	100	40	Crop i	is standing an	d result awai	ted
							Imidacloprid						—

### **B.** Economic parameters

Sl.			Farmer's Existi	ng plot			Demonstratio	n plot	
No.	Variety demonstrated & Technology demonstrated	Gross Cost	Gross return	Net Return	B:C	Gross Cost	Gross return	Net Return	B:C
INO.		(Rs/ha)	(Rs/ha)	(Rs/ha)	ratio	(Rs/ha)	(Rs/ha)	(Rs/ha)	ratio
1.	Mustard	21850	42925	21075	1.96	24299	61610	37311	2.54

## C. Socio-economic impact parameters 2022

S1.	Crop and variety	Total	Produce sold	Selling	Produce	Produce	Purpose for which	Employment
No.	Demonstrated	Produce	(Kg/household)	Rate	used for own	distributed to	income gained	Generated
		Obtained		(Rs/Kg)	sowing (Kg)	other farmers	was utilized	(Mandays/house
		(kg)				(Kg)		hold)
1.	Mustard var. Rajendra suflam-1	125810	88067	50.5	6290.5	31452.5	To improve the livelihood of the farmer	26/acre demo plot

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

Sl.	Technologies	Farmers' Perception parameters					
No.	demonstrated	Suitability to	Likings	Affordability	Any negative	Is Technology	Suggestions, for
	(with name)	their farming	(Preference)		effect	acceptable to all in the	change/improvement, if any
		system				group/village	
1.	Mustard var. Rajendra suflam-1	Technology is suitable to the existing farming system.	The technology is preferred to the farmers of rice-mustard cropping sequence	The input distributed among the farmers	Not at all	The farmer was satisfied with the technology transferred. The farmer is enthusiastic to adopt the scientific package of practices for oilseed production.	Short duration high yielding and fertilizer responsive variety

## E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
No. of siliquae/plant	419.5	210.2	
Seed per siliquae	12	5	High plant survival/unit area,
Length of siliquae	4.5	2.1	performance of germination higher,
Seed weight	5.2-6.3 g	3.1-3.5 g	plant height, no. of branches,
No. of primary branches	5.6	3.8	seeds/siliqua found more. It may be
No. of secondary + tertiary branches	419.5	219.4	up-scaled in 500 ha

## F. Extension activities under FLD conducted:

Sl.	Extension Activities organized	Date and place of activity	Number of farmer
No.			attended
1.	Training on production and protection technology in mustard	02.11.2021; Hardi	40
2.	Training on production and protection technology in mustard	17.11.2021; Gurwaliya	30
3.	Training on disease management in mustard crop	09.12.2021; Gurwaliya	29
4.	Training, field visit & advisory services	02.11.2021; Hardi	40
5.	Training, field visit & advisory services	17.11.2021; Gurwaliya	30
6.	Training, field visit & advisory services	09.12.2021; Gurwaliya	29
7.	Field day, field visit & advisory services	23.02.2022; Gurwaliya	35
8.	Field day, field visit & advisory services	24.02.2022; Katsikri	56
9.	Field day, field visit & advisory services	23.03.2022; Barnihar	25
10.	Training on production and protection technology in Lentil and critical input	11/11/2022, KVK,	50
	distribution	Narkatiaganj	
11.	Training on production and protection technology in Lentil and critical input	12/11/2022, KVK,	50
	distribution	Narkatiaganj	
12.	Training on production and protection technology in mustard and critical	08/11/2022; Majhaulia	25
	input distribution		
13.	Training on production and protection technology in mustard and critical	15/11/2022; At KVK,	30
	input distribution	Narkatiaganj	
14.	Training on production and protection technology in mustard and critical	14/11/2022; At KVK,	7
	input distribution	Narkatiaganj	
15.	Training on production and protection technology in mustard and critical	16/11/2022; Katsikri	9
	input distribution		
16.	Training on production and protection technology in mustard and critical	16/11/2022; Hardi	21
	input distribution		
17.	Training on production and protection technology in mustard and critical	17/11/2022; At KVK,	8
	input distribution	Narkatiaganj	

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



Data collection and advisory service at different growth stages of mustard





Data collection and advisory service at different growth stages of lentil



Zinc application and advisory service at different growth stages of paddy in FLD



Data collection and advisory service at different growth stages of wheat in FLD





Data collection and advisory service at different growth stages of crops in OFT

H. Farmers' training photographs



Input distribution in CFLD mustard






Training in CFLD mustard



Chelated Zn distribution in FLD





Input distribution in OFT

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



Goat's health checkup

Field visit in paddy under FLD



Pesticide spray on potato in OFT



A view of training and input distribution for on-farm trial on shoot and fruit borer management in brinjal

A view of filed visit photograph of on-farm trial on shoot and fruit borer management in brinjal



#### J. Details of budget utilization

Сгор	Items	Budget	Budget	Balance
(provide crop wise information)		Received	Utilization	(Rs.)
		(Rs.)	(Rs.)	
Pulses	i) Critical input	328000	326100	1900
	ii) TA/DA/POL etc. for monitoring	12000	4000	8000
	iii) Extension Activities (Field Day)	10000	00	10000
	iv)Publication of literature	10000	5000	5000
	Total	360000	335100	24900
Oilseeds	i) Critical input	216000	204680	11320
	ii) TA/DA/POL etc. for monitoring	24000	10720	13280
	iii) Extension Activities (Field Day)			
	iv)Publication of literature			
	Total	240000	240000	

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

	No. of			N	o. of I	Particip	ants				G	rand T	otal
Thematic Area	Courses		Other	1		SC	1		ST				
	courses	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
I. Crop Production													
Weed Management								_					
Resource Conservation Technologies	1	32	0	32	8	0	8	0	0	0	40	0	40
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management	1	26	0	26	6	0	6	0	0	0	32	0	32
Fodder production													
Production of organic inputs	1	29	0	29	0	0	0	5	0	5	34	0	34
Others, (cultivation of crops)	5	114	19	133	12	2	14	11	7	18	137	28	165
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management			İ	1		1	1		1	l		İ	1
Enterprise development				İ		l	l		l				1
Skill development													
Yield increment													
Production of low volume and high													
value crops	1	37	0	37	3	0	3	0	0	0	40	0	40
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses,				ł – –									
Shade Net etc.)													
Others, if any (Cultivation of				ł – –									
Vegetable)													
Training and pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young													
plants/orchards													
Rejuvenation of old orchards													
Export potential fruits				-									
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants				<u> </u>		<u> </u>	<u> </u>		<u> </u>				
Nursery Management				<u> </u>		<u> </u>	<u> </u>		<u> </u>				
Management of potted plants													
Export potential of ornamental plants													<u> </u>
Propagation techniques of													
Ornamental Plants		<u> </u>				<u> </u>	<u> </u>	<u> </u>					<b> </b>
Others, if any													
d) Plantation crops				ļ		ļ	ļ	L					
Production and Management													
technology													

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

	No. of			N	o. of F	Particip	ants				G	rand T	otal
Thematic Area	Courses		Other			SC	-		ST	m		1	
		М	F	Т	М	F	Т	Μ	F	Т	М	F	Т
Processing and value addition Others, if any													
e) Tuber crops													
Production and Management													
technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management													
technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management													
technology													
Post-harvest technology and value													1
addition													<u> </u>
Others, if any													
III. Soil Health and Fertility													
Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils Micro nutrient deficiency in crops													
Nutrient Use Efficiency													-
Soil and Water Testing													
Others, if any													
IV. Livestock Production and													
Management													
Dairy Management	01	29	1	30	5	0	5	0	0	0	34	1	35
Poultry Management	02	42	0	42	8	0	8	7	0	7	57	0	57
Piggery Management					-				-				
Rabbit Management													
Disease Management													
Feed management	02	21	2	23	4	22	26	0	0	0	25	35	60
Production of quality animal products				l									1
Others, if any Goat farming	01	12	4	16	12	3	15	0	0	0	24	7	31
V. Home Science/Women													
empowerment													
Household food security by kitchen													
gardening and nutrition gardening				<u> </u>									<u> </u>
Design and development of													
low/minimum cost diet				<u> </u>									<u> </u>
Designing and development for high													
nutrient efficiency diet													<u> </u>
Minimization of nutrient loss in													
processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													+
Enterprise development Value addition													+
Income generation activities for empowerment of rural Women				1									1

				N	o. of F	articip	ants					1.00	
Thematic Area	No. of		Other			SC			ST		G	rand T	otal
	Courses	М	F	Т	М	F	Т	М	F	Т	М	F	Т
Location specific drudgery reduction													
technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI.Agril. Engineering													
Installation and maintenance of micro	_	• •		•			1.0						
irrigation systems	2	28	11	39	16	2	18	0	1	1	44	14	58
Use of Plastics in farming practices													
Production of small tools and	_	100			10			_	0	_	1.10	-	
implements	5	120	1	121	13	4	16	9	0	9	142	5	147
Repair and maintenance of farm													
machinery and implements													
Small scale processing and value													
addition													
Post-Harvest Technology	1												1
Others, if any	2	38	2	40	3	10	13	5	1	6	46	13	59
VII. Plant Protection													
Integrated Pest Management	3	54	20	74	03	13	16	01	0	01	58	33	91
Integrated Disease Management	3	60	12	72	15	06	21	01	0	01	76	18	94
Bio-control of pests and diseases	1	15	0	15	02	00	02	13	00	13	30	00	30
Production of bio control agents and	1	15	0	15	02	00	02	15	00	15	50	00	50
bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery													
management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its													
application to fish pond, like nursery,													
rearing & stocking pond													
Hatchery management and culture of													
freshwater prawn													
Breeding and culture of ornamental													
fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any					-								
IX. Production of Inputs at site													
Seed Production													
Planting material production										<u> </u>			
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production										<u> </u>			
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax													
sheets													
Small tools and implements													1

													44
	No. of			N	o. of P	articip	ants				G	rand To	otal
Thematic Area	Courses		Other			SC			ST		G		Jiai
	Courses	Μ	F	Т	М	F	Т	Μ	F	Т	Μ	F	Т
Production of livestock feed and													
fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group													
Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of													
farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	30	620	72	692	107	62	169	52	9	61	922	143	1065

# **B)** Rural Youth Including the sponsored training programmes (on campus)

				N	o. of l	Particij	pants				C	d T	4.1
Thematic Area	No. of Courses		Other			SC			ST		Gr	and To	tai
	Courses	М	F	Т	Μ	F	Т	М	F	Т	М	F	Т
Mushroom Production	01	26	00	26	00	00	00	04	00	04	30	00	30
Bee-keeping													
Integrated farming	01	21	0	21	3	0	3	3	0	3	27	0	27
Seed production	1	20	0	20	0	0	0	10	0	10	30	0	30
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable													
crops													
Commercial fruit production													
Repair and maintenance of farm													
machinery and implements													
Nursery Management of Horticulture													
crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing	01	27	0	27	3	0	3	0	0	0	30	0	30
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													<u> </u>
Enterprise development													<u>                                     </u>
Para vets Para extension workers													┟───┤
Para extension workers													

	N. C			N	o. of ]	Particij	pants				C	1.7	
Thematic Area	No. of Courses		Other			SC			ST		Gfa	and To	ital
	Courses	М	F	Т	М	F	Т	М	F	Т	М	F	Т
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing													
technology													
Fry and fingerling rearing													
Small scale processing													
Post-Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
TOTAL	4	94	0	94	6	0	6	17	0	17	117	0	117

### C) Extension Personnel Including the sponsored training programmes (on campus)

	NL C			N	o. of l	Partici	pants				C	and To	tal
Thematic Area	No. of Courses		Other			SC			ST		G	and I c	nai
	Courses	М	F	Т	Μ	F	Т	Μ	F	Т	М	F	Т
Productivity enhancement in field													
crops													
Value addition													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers													
organization													
Information networking among													
farmers													
Capacity building for ICT application													
Care and maintenance of farm													
machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet													
designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
TOTAL													

# D) Farmers and farm women Including the sponsored training programmes (off campus)

	No. of			N	o. of F	Particip	ants				Gr	and To	at a 1
Thematic Area	Courses		Other			SC			ST		01		nai
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
I. Crop Production													
Weed Management	2	38	0	38	2	0	2	17	0	17	57	0	57
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													

				N	o of F	Particip	ants						46
Thematic Area	No. of		Other		0. 01 1	SC	Jants		ST		Gı	and To	otal
	Courses	М	F	Т	М	F	Т	М	F	Т	М	F	Т
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management	2	58	3	61	6	0	6	1	0	1	65	3	68
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)	7	158	2	160	37	0	37	0	0	0	195	2	197
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	1	18	7	25	1	0	1	0	0	0	19	7	26
Water management													
Enterprise development							1	1					1
Skill development								L		L			
Yield increment													
Production of low volume and high	5	110	1	112	0	20	20	3	0	2	102	20	150
value crops	3	112	1	113	8	28	36	S	0	3	123	29	152
Off-season vegetables								L		L			
Nursery raising	2	46	2	48	1	0	1	1	0	0	47	2	49
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit	1	0	0	0	0	0	0	27	7	34	27	7	34
Management of young	_	-		-									
plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)	2	28	0	28	1	0	1	20	1	21	49	1	50
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of													
Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management		Γ		Ι			[		[			Ī	T
technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management													
technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management													
technology								1					

				N	o of F	Particip	ante						
Thematic Area	No. of		Other			SC	Jants		ST		G	rand T	otal
Thematic Aica	Courses	М	F	Т	М	F	Т	М	F	Т	М	F	Т
Processing and value addition									-			_	
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management													
technology													
Post-harvest technology and value													
addition													
Others, if any													
III. Soil Health and Fertility													
Management													
Soil fertility management Soil and Water Conservation													
Integrated Nutrient Management				1		1	1						
Production and use of organic inputs									<u> </u>				
Management of Problematic soils Micro nutrient deficiency in crops									<u> </u>				
, <u>,</u>									<u> </u>				
Nutrient Use Efficiency Soil and Water Testing									<u> </u>				
				1		1	1						
Others, if any IV. Livestock Production and				1		1	1						
Management Dairy Management	03	82	0	82	30	0	30	0	0	0	112	0	112
	03	31	7	38	12	6	18	0	0	0	43	13	56
Poultry Management	02	51	/	30	12	0	10	0	0	0	45	15	30
Piggery Management				1		1	1						
Rabbit Management Disease Management	03	48	6	54	34	2	36	0	0	0	82	8	90
	03	40	1	50	34	7	37	1	0	1	80	8	88
Feed management Production of quality animal	05	49	1	30	30	/	57	1	0	1	80	0	00
production of quanty animal products													
Others, if any Goat farming	01	7	1	8	19	0	19	0	0	0	26	1	27
V. Home Science/Women	01	/	1	0	19	0	19	0	0	0	20	1	21
empowerment													
Household food security by kitchen													
gardening and nutrition gardening													
Design and development of													
low/minimum cost diet													
Designing and development for high													
nutrient efficiency diet													
Minimization of nutrient loss in													
processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development				<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>		
Value addition				<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>		
Income generation activities for												1	
empowerment of rural Women													
Location specific drudgery reduction													
technologies												+	
Rural Crafts												+	
Capacity building												+	
Women and child care												+	
Others, if any												+	
VI.Agril. Engineering												+	
Installation and maintenance of micro irrigation systems	1	25	0	25	3	0	3	2	0	2	30	0	30
Use of Plastics in farming practices		1	1	1	1	1	1	1			1	+	1

		F											48
Thematic Area	No. of		Other		o. of F	Particip SC	ants		ST		Gr	and To	otal
I nematic Area	Courses	М	F	Т	М	SC F	Т	М	F	Т	М	F	Т
Production of small tools and		141	1	1	111	1	1	141	1	1	101	1	-
implements													
Repair and maintenance of farm	2	47	0		F	0	~	1	0	1	52	0	<u>(1</u>
machinery and implements	2	47	8	55	5	0	5	1	0	1	53	8	61
Small scale processing and value													
addition													
Post-Harvest Technology													
Others, if any	2	19	0	19	17	0	17	24	0	24	60	0	60
VII. Plant Protection													
Integrated Pest Management	1	24	0	24	01	0	01	00	00	00	25	00	25
Integrated Disease Management	6	111	05	116	38	01	39	10	00	10	159	06	165
Bio-control of pests and diseases	3	89	07	96	02	00	02	05	00	05	96	07	103
Production of bio control agents and													
bio pesticides													1
Others, if any (Mushroom Production	1	05	09	14	02	14	16	00	02	02	07	25	32
technology)													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery													
management													
Carp fry and fingerling rearing Composite fish culture & fish disease													
1													
Fish feed preparation & its application to fish pond, like nursery,													
rearing & stocking pond													
Hatchery management and culture of													
freshwater prawn													
Breeding and culture of ornamental													
fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax													
sheets													
Small tools and implements													
Production of livestock feed and		Ī		Γ		T	Ι	[	I				Ī
fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group													
Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													

													49
	No. of			N	o. of F	Partici	pants				Gr	and To	otol
Thematic Area			Other	•		SC			ST		UI OI	and T	Jai
	Courses	М	F	Т	М	F	Т	Μ	F	Т	Μ	F	Т
Mobilization of social capital													
Entrepreneurial development of													
farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	39	791	49	840	238	24	262	61	2	63	1090	75	1165

# E) RURAL YOUTH including the sponsored training programmes (Off Campus)

	No. of			N	o. of P	artici	pants					Grand	Total
Thematic Area	No. of Courses		Other	•		SC			ST			Granu	Total
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Mushroom Production	1	05	18	23	02	13	15	00	02	02	07	33	40
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable													
crops													
Commercial fruit production													
Repair and maintenance of farm													
machinery and implements													
Nursery Management of													
Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal													
products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers						1				1			
Composite fish culture						1					1	1	
Freshwater prawn culture						1				1			
Shrimp farming						1					1	1	
Pearl culture													
Cold water fisheries											1		
Fish harvest and processing					1	1		1	1	1			
technology													

													50
	N C			N	o. of F	artici	pants					Crond	Total
Thematic Area	No. of		Othe	r		SC			ST			Grand	Total
	Courses	М	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Fry and fingerling rearing													
Small scale processing													
Post-Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any													
TOTAL	1	05	18	23	02	13	15	00	02	02	07	33	40

### F) Extension Personnel Including the sponsored training programmes (Off Campus)

	No. of			N	o. of P	artici	pants				C	rand T	otal
Thematic Area	Courses		Othe			SC			ST		G.		otai
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Productivity enhancement in field crops													
Integrated Pest Management	01	13	0	13	1	0	1	0	0	0	14	0	14
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs					1								
Gender mainstreaming through SHGs					1								
Crop intensification													
TOTAL	01	13	0	13	1	0	1	0	0	0	14	0	14

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

### i. Farmers & Farm Women

	No.			N	o. of Pa	articipa	ants				G	rand 7	Fotal
Thematic Area	of		Other			SC			ST		U		otai
Thematic Area	Cour ses	М	F	Т	М	F	Т	М	F	Т	М	F	Т
I. Crop Production													
Weed Management	2	38	0	38	2	0	2	17	0	17	57	0	57

	No.			N	o. of Pa	articipa	ants	•			G	rand 7	Fotal
Thematic Area	of		Other			SC			ST		U		
Themate Theu	Cour ses	М	F	Т	М	F	Т	М	F	Т	М	F	Т
Resource Conservation Technologies	1	32	0	32	8	0	8	0	0	0	40	0	40
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management			-										
Integrated Crop Management	3	84	3	87	12	0	12	1	0	1	97	3	100
Fodder production		• •	-							_			
Production of organic inputs	1	29	0	29	0	0	0	5	0	5	34	0	34
Others, (cultivation of crops )	12	272	21	293	49	2	51	11	7	18	332	30	362
TOTAL	19	455	24	479	71	2	73	34	7	41	560	33	593
II. Horticulture													
a) Vegetable Crops	1	18	7	25	1	0	1	0	0	0	19	7	26
Integrated nutrient management Water management	1	10	/	23	1	0	1	U	0	0	19	/	20
Enterprise development Skill development									-				
Yield increment													
Production of low volume and high													
value crops	6	149	1	150	11	28	39	3	0	3	163	29	192
Off-season vegetables													
Nursery raising	2	46	2	48	1	0	1	1	0	0	47	2	49
Exotic vegetables like Broccoli	2	40	2	40	1	0	1	1	0	0	77	2	77
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses,													
Shade Net etc.)													
Others, if any (Cultivation of													
Vegetable)													
TOTAL													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit	1	0	0	0	0	0	0	27	7	34	27	7	34
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques		• •	-					• •			10		
Others, if any(INM)	2	28	0	28	1	0	1	20	1	21	49	1	50
TOTAL													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any					<u> </u>	<u> </u>							
TOTAL													
d) Plantation crops									-				
a) Plantation crops Production and Management													
technology													
Processing and value addition					1								
Others, if any													
	1				1		1	1	1	1	1	1	1

	No.			N	o. of Pa		ants				G	rand ]	Fotal
Thematic Area	of		Other			SC			ST		G	rand	otal
Themate Area	Cour ses	М	F	Т	М	F	Т	М	F	Т	М	F	Т
e) Tuber crops													
Production and Management													
technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management													
technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													ļ
Production and management													
technology													
Post harvest technology and value													
addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility													
Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops				-									
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any TOTAL													
	10	241	10	251	14	20	40	51	8	50	205	46	251
GT (Horticulture) IV. Livestock Production and	12	241	10	251	14	28	42	51	ð	59	305	40	351
Management													
Dairy Management	4	111	1	112	35	0	35	0	0	0	146	1	147
Poultry Management	4	73	9	82	20	6	26	7	0	7	100	15	115
Piggery Management	-	75	9	02	20	0	20	/	0	/	100	15	115
Rabbit Management													
Disease Management	3	48	6	54	34	2	36	0	0	0	82	8	90
Feed management	5	70	3	73	34	29	63	0	0	0	105	o 43	148
Production of quality animal products	5	70	5	15	54	23	05	0	0	0	105		1-10
Others, if any (Goat farming)	2	19	5	24	31	3	34	0	0	0	50	8	58
TOTAL	18	321	24	345	154	40	194	7	0	7	483	75	558
	10		-1	545		-10				,	100		220
V. Home Science/Women	•												
V. Home Science/Women empowerment													
empowerment						1	1				1		
empowerment Household food security by kitchen													
empowerment Household food security by kitchen gardening and nutrition gardening													
empowerment Household food security by kitchen													
empowerment Household food security by kitchen gardening and nutrition gardening Design and development of low/minimum cost diet													
empowerment Household food security by kitchen gardening and nutrition gardening Design and development of low/minimum cost diet Designing and development for high													
empowerment Household food security by kitchen gardening and nutrition gardening Design and development of low/minimum cost diet													
empowerment Household food security by kitchen gardening and nutrition gardening Design and development of low/minimum cost diet Designing and development for high nutrient efficiency diet Minimization of nutrient loss in													
empowerment Household food security by kitchen gardening and nutrition gardening Design and development of low/minimum cost diet Designing and development for high nutrient efficiency diet													

													53
	No.				o. of P	articipa	ants	1			G	rand [	Fotal
Thematic Area	of		Other	1		SC	1		ST	1			
	Cour ses	М	F	Т	М	F	Т	Μ	F	Т	М	F	Т
Enterprise development	303												
Value addition													
Income generation activities for													
empowerment of rural Women													
Location specific drudgery reduction													
technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
TOTAL													
VI.Agril. Engineering													
Installation and maintenance of micro	2	50	11	<i>C</i> A	10	_	0.1	2	1	2	74	1.4	00
irrigation systems	3	53	11	64	19	2	21	2	1	3	74	14	88
Use of Plastics in farming practices					İ					İ			
Production of small tools and	E	100	1	101	10	4	17	0	0	0	1.40	50	1 47
implements	5	120	1	121	13	4	17	9	0	9	142	53	147
Repair and maintenance of farm	2	47	0	= =	5	0	5	1	0	1	50	0	<i>L</i> 1
machinery and implements	2	47	8	55	5	0	5	1	0	1	53	8	61
Small scale processing and value	0	0	0	0	0	0	0	0	0	0	0	0	0
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	4	57	2	59	20	10	30	29	1	30	106	13	119
TOTAL	14	277	22	299	57	16	73	41	2	43	375	40	415
VII. Plant Protection													
Integrated Pest Management	4	78	20	98	4	13	17	1	0	1	83	33	116
Integrated Disease Management	9	171	17	188	53	7	60	11	0	11	235	24	259
Bio-control of pests and diseases	4	104	7	111	4	0	4	18	0	18	126	7	133
Production of bio control agents and													
bio pesticides													
Others, if any (Mushroom Production	1	5	9	14	2	14	16	0	2	2	7	25	32
Tech.)			-								-		-
TOTAL	18	358	53	411	63	34	97	30	2	32	451	89	540
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery													
management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application													
to fish pond, like nursery, rearing &													
stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery	-					<u> </u>							
Portable plastic carp hatchery Pen culture of fish and prawn	+												
Shrimp farming	+												
Edible oyster farming	+												
Pearl culture													
					<u> </u>								
Fish processing and value addition					<u> </u>								
Others, if any TOTAL					<u> </u>								
					<u> </u>								
IX. Production of Inputs at site													
Seed Production					L	1		L		I			

	No.			N	o. of P	articip	ants						
Thematic Area	of		Other			SC			ST		G	rand T	otal
Thematic Area	Cour ses	М	F	Т	М	F	Т	М	F	Т	М	F	Т
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax													
sheets													l.
Small tools and implements													
Production of livestock feed and													
fodder													l.
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and Group													
Dynamics													l.
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems					1	1	1	1	1	1	1		
TOTAL								1		1			
XII. Others (Pl. specify)								1		1			
TOTAL			1		1		1						

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

	No. of				No. of	f Partic	ipants					Grand T	otal
Thematic Area	Courses		Other	•		SC			ST				otai
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Т	М	F	Т
Mushroom	2	31	18	49	02	13	15	04	02	06	37	31	68
Production	2	51	10	49	02	15	15	04	02	00	57	51	
Bee-keeping													
Integrated farming	01	21	0	21	3	0	3	3	0	3	27	0	27
Seed production	1	20	0	20	0	0	0	10	0	10	30	0	30
Production of organic													
inputs													
Planting material													
production													
Vermi-culture													
Sericulture													
Protected cultivation													
of vegetable crops													
Commercial fruit													
production													

					No. o	f Partic	ipants						
Thematic Area	No. of		Other		110.0	SC	ipunts		ST			Grand T	otal
Thematic Tirea	Courses	М	F	Т	М	F	Т	М	F	Т	М	F	Т
Repair and													
maintenance of farm													
machinery and													
implements													
Nursery Management													
of Horticulture crops													
Training and pruning													
of orchards													
Value addition													
Production of quality													
animal products													
Dairying													
Sheep and goat	01	77	Δ	27	2	Δ	2	0	0	0	20	0	30
rearing	01	27	0	27	3	0	3	0	0	0	30	0	
Quail farming													
Piggery													1
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension													
workers													
Composite fish													
culture													
Freshwater prawn													
culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and													
processing													
technology													
Fry and fingerling													
rearing													
Small scale													
processing													
Post-Harvest													
Technology													
Tailoring and													
Stitching													
Rural Crafts													
Enterprise													
development													
Others if any (ICT													
application in													
agriculture)													
TOTAL	5	99	18	117	8	13	21	17	2	19	124	31	155

# iii. Extension Personnel (On and Off Campus)

	No. of				No. o	f Partic	ipants					Grand	Total
Thematic Area	Courses		Other	r		SC			ST			Granu	Total
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Т	М	F	Т
Productivity													
enhancement in field													
crops													

													56
Integrated Pest		10		10		0		0		0	10		14
Management	1	12	1	13	1	0	1	0	0	0	13	1	
Integrated Nutrient													
management													
Rejuvenation of old													
orchards													
Value addition													
Protected cultivation													
technology													
Formation and													
Management of													
SHGs													
Group Dynamics and													
farmers organization													
Information													
networking among													
farmers													
Capacity building for													
ICT application													
Care and													
maintenance of farm													
machinery and													
implements													
WTO and IPR issues													
Management in farm													
animals													
Livestock feed and													
fodder production													
Household food													
security													
Women and Child													
care													
Low cost and													
nutrient efficient diet													
designing Production and use													
of organic inputs													
Gender													
mainstreaming													
through SHGs													
Crop intensification													
Others if any													
TOTAL	1	12	1	13	1	0	1	0	0	0	13	1	14
IUIAL	1	14		13		U	1	U	U	U	13	I	14

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

Discipline	Clientele	Title of the training	Duration in days	Venue (Off / On	Numbe	er of partic	ipants	Numbe	er of SC/ST	
		programme	2	Campus)	Male	Female	Total	Male	Female	Total
Plant Protection	Farmers and farm women	Disease management in sugarcane	1	Off campus	33	00	33	08	00	08
Plant Protection	Farmers and farm women	Insect Pest management in sugarcane	1	Off campus	38	00	38	01	00	01
Plant Protection	Farmers and farm women	Important diseases of mango and their management	1	Off campus	25	00	25	02	00	02

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										57
Plant Protection	Farmers and farm women	Importance of Trichoderma in sugarcane disease	1	Off campus	26	00	26	07	00	07
Plant Protection	Farmers	management Seed	1	Off	19	07	26	01	01	01
	and farm women	treatment in rice for disease and pest management		campus						
Plant Protection	Farmers and farm women	Diseases of rice and their management	1	Off campus	27	04	31	04	01	05
Plant Protection	Farmers and farm women	Rice diseases and their management	1	Off campus	25	00	25	25	00	25
Plant Protection	Farmers and farm women	Identification and management of red rot disease in sugarcane	1	Off campus	25	00	25	01	00	01
Plant Protection	Farmers and farm women	Management of insect pest and diseases in sugarcane seed production	1	Off campus	39	00	39	04	00	04
Plant Protection	Farmers and farm women	Wheat diseases and their management	1	Off campus	23	02	25	02	00	02
Plant Protection	Farmers and farm women	Mushroom production	1	Off campus	07	25	32	02	16	18
Plant Protection	Farmers and farm women	Insect pest and disease management in onion	1	Off campus	22	08	30	22	08	30
Plant Protection	Farmers and farm women	Management of diseases in sugarcane	1	On Campus	33	00	33	06	00	06
Plant Protection	Farmers and farm women	Integrated diseases management in rice crop	1	On Campus	31	00	31	08	00	08
Plant Protection	Farmers and farm women	Disease management in sugarcane settling transplanting technique	1	On Campus	30	00	30	02	07	09
Plant Protection	Farmers and farm women	Blast disease management in rice	1	On Campus	12	18	30	02	06	08
Plant Protection	Farmers and farm women	Integrated insect pest management	1	On Campus	06	27	33	03	12	15

										58
Plant Protection	Farmers and farm women	Insect peat and diseases management in lentil and chickpea	1	On Campus	30	0	30	15	00	15
Plant Protection	Farmers and farm women	Insect peat and diseases management in lentil and chickpea	1	On Campus	28	00	28	00	00	00
Plant Protection	Farmers and farm women	Diseases management in Lentil crop	1	On Campus	24	06	30	01	01	01
Plant Protection	Farmers and farm women	Diseases and insect pest management in vegetable crops	1	On Campus	04	26	30	04	26	30
Crop Production	Farmers and farm women	Sugarcane settling transplanting technology	1	Off	25	0	25	9	0	9
Crop Production	Farmers and farm women	Summer mungbean production technology	1	Off	28	2	30	4	0	4
Crop Production	Farmers and farm women	Leaser land levelling	1	On	40	0	40	8	0	8
Crop Production	Farmers and farm women	Scientific rice cultivation technology under drought condition	1	Off	30	0	30	0	0	0
Crop Production	Farmers and farm women	Package and practices of direct seeded rice cultivation	1	On	25	19	44	8	9	17
Crop Production	Farmers and farm women	Direct seeded rice cultivation technology	1	Off	27	0	27	12	0	12
Crop Production	Farmers and farm women	Integrated nutrient management in rice	1	On	32	0	32	6	0	6
Crop Production	Farmers and farm women	Integrated nutrient management in rice	1	Off	43	0	43	5	0	5
Crop Production	Farmers and farm women	Direct seeded rice cultivation technology	1	Off	34	0	34	0	0	0
Crop Production	Farmers and farm women	Integrated weed management under direct seeded rice	1	Off	27	0	27	2	0	2

										59
Crop	Farmers	Production	1	On	30	0	30	6	0	6
Production	and farm	technique of								
	women	pigeon pea								
Crop	Farmers	Scientific	1	On	34	0	34	5	0	5
Production	and farm	production								
	women	techniques of								
		organic								
		manure								
Crop	Farmers	Package and	1	On	22	9	31	2	0	2
Production	and farm	practices of								
	women	mustard								
~		production								
Crop	Farmers	Production	1	Off	26	0	26	12	0	12
Production	and farm	technology of								
~	women	sugarcane		-					-	
Crop	Farmers	Agronomic	1	On	30	0	30	5	0	5
Production	and farm	practices for								
	women	chickpea								
Contract	<b>D</b> a	production	1	0.0		2	25	-	0	
Crop Due du etion	Farmers	Integrated	1	Off	22	3	25	2	0	2
Production	and farm	nutrient								
	women	management								
Contract	<b>D</b> a	in wheat crops	1	0	20	0	20	-	0	
Crop Production	Farmers	Production technology of	1	On	30	0	30	2	0	2
Production	and farm	technology of								
<b>C</b>	women	potato	1	Off	30	0	30	17	0	17
Crop	Farmers	Integrated	1	OII	30	0	30	1/	0	1/
Production	and farm	weed								
	women	management								
Course	E a mar a ma	in wheat	1	Off	25	0	25	0	0	0
Crop	Farmers and farm	Ratoon	1	OII	25	0	25	0	0	0
Production		management								
A	women	in sugarcane Solar powered	1	0	20	0	20	10	0	10
Agricultural Engineering	Farmers and farm	irrigation system	1	On	28	0	28	10	0	10
Engineering		(SPIS)								
	women	introduction, merits/ demerits								
		installation								
		location and its								
		types.								
Agricultural	Farmers	Technologies for direct sowing of	1	On	25	0	25	4	0	4
Engineering	and farm	rice, its								
	women	importance,				1				
		merits and								
A anion line 1	Econo	demerits Weed		0	21	0	21	~	-	5
Agricultural	Farmers	management in		On	31	0	31	5	0	5
Engineering	and farm	paddy crop for								
A * 1. 1	women	kharif season	1	0.00					-	
Agricultural	Farmers	Various weed management	1	Off	30	0	30	24	0	24
Engineering	and farm	methods and it's								
	women	various available				1				
A		technologies Calibration of	1	0.00	21		21	-	-	
Agricultural	Farmers	Calibration of different	1	Off	31	0	31	3	0	3
Engineering	and farm	agricultural								
	women	machineries								
Agricultural	Farmers	Various micro	1		30	0	30	5	0	5
Engineering	and farm	irrigation techniques for								
	women	water saving		Off						
Agricultural	Farmers	Care and	1	Off	22	8	30	3	0	3
	and farm	maintenance of				1				
Engineering	and faim	Agricultural								

										60
Agricultural Engineering	Farmers and farm women	Solar powered Irrigation system, a way to use green energy for agricultural purpose	1	On	16	14	30	6	3	9
Agricultural Engineering	Farmers and farm women	Technologies for sugarcane bud and node making to increase farm mechanization	1	On	30	0	30	0	9	9
Agricultural Engineering	Farmers and farm women	Role and classification of different farm machineries and equipment's for Rabi crop production	1	On	29	2	31	0	0	0
Agricultural Engineering	Farmers and farm women	Operation and maintenance of Zero Till machine for sowing of wheat	1	Off	30	0	30	24	0	24
Agricultural Engineering	Farmers and farm women	Implements and Equipment's for Land levelling and shaping for better resource use	1	On	29	0	29	0	0	0
Agricultural Engineering	Farmers and farm women	Manual Rice- wheat seeder for direct wheat sowing, a low - cost method for wheat sowing	1	On	26	5	31	3	4	7
Agricultural Engineering	Farmers and farm women	Farm mechanization a sustainable and effective way to double farmers income	1	On	17	11	28	8	11	19
Animal Science	Farmers and farm women	Dairy animal diseases and their prevention	1	Off	36	0	36	21	0	21
Animal Science	Farmers and farm women	Management of dairy animals in summer season	1	Off	31	0	31	24	0	24
Animal Science	Farmers and farm women	Scientific dairy farming	1	Off	28	0	28	4	0	4
Animal Science	Farmers and farm women	Health management in goat	1	Off	26	1	27	19	0	19
Animal Science	Farmers and farm women	Feeding management of dairy cattle	1	Off	27	0	27	6	0	6
Animal Science	Farmers and farm women	Clean milk production	1	On	34	1	35	5	0	5
Animal Science	Farmers and farm women	Feeding management of dairy cattle	1	Off	23	8	31	21	7	28

Animal Science	Farmers	Scientific	1	Off	43	0	43	5	0	5
	and farm women	dairy farming	1			Ŭ	10	5	Ũ	5
Animal Science	Farmers and farm women	Azolla production and use as animal feed	1	On	11	22	33	3	22	25
Animal Science	Farmers and farm women	Different types of housing systems for goat	1	On	24	7	31	12	3	15
Animal Science	Farmers and farm women	Production and preservation of green fodder round the year	1	Off	30	0	30	4	0	4
Animal Science	Farmers and farm women	Important bacterial, viral and parasitic diseases in goat	1	Off	29	0	29	3	0	3
Animal Science	Farmers and farm women	Important poultry breeds and its scope	1	Off	25	1	26	0	0	0
Animal Science	Farmers and farm women	Commercial broiler and layer farming	1	On	29	0	29	10	0	10
Animal Science	Farmers and farm women	Different types of housing system in poultry	1	Off	18	12	30	12	6	18
Animal Science	Farmers and farm women	PPR disease in goat and it's prevention	1	Off	22	8	30	7	2	9
Animal Science	Farmers and farm women	Important bacterial, viral and parasitic diseases in poultry	1	On	28	0	28	5	0	5
Horticulture	Farmers and farm women	Production technology of seedlings in Bottle guard and sponge gaurd	1	On	40	0	40	3	0	3
Horticulture	Farmers and farm women	Cultural practices in litchi production	1	OFF	27	7	34	27	7	34
Horticulture	Farmers and farm women	Advance production technology of vegetable crops for kharif season	1	OFF	29	1	30	3	0	3
Horticulture	Farmers and farm women	Natural farming of	1	OFF	27	0	27	0	0	0

										62
		cucumber in kharif season								
Horticulture	Farmers and farm women	Production technology of Onion in Kharif season	1	OFF	26	0	26	0	0	0
Horticulture	Farmers and farm women	Cultural practices of okra in Kharif season	1	OFF	17	28	45	5	28	33
Horticulture	Farmers and farm women	Cultural practices of early cucumber	1	OFF	25	0	25	3	0	3
Horticulture	Farmers and farm women	Growing of nursery of Vegetable crop	1	OFF	25	0	25	0	0	0
Horticulture	Farmers and farm women	Nutrient management in Vegetable crop	1	OFF	19	7	26	1	0	1
Horticulture	Farmers and farm women	Nutrient management in Litchi	1	OFF	25	0	25	0	0	0
Horticulture	Farmers and farm women	Scope and importance of Nursery raising and its different techniques	1	OFF	23	2	25	2	0	2
Horticulture	Farmers and farm women	Nutrient management in Mango and Litchi for enhancement of yield and quality of fruits	1	OFF	24	1	25	21	1	22

#### H) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

Cror /	Identifi	Tasia		No.	of Participa	ants	Self-	employed af	ter training	Number of resource
Crop / Enterpr ise	ed Thrust Area	Train ing title*	Duration (days)	Male	Female	Total	Type of units	Number of units	Number of persons employed	Number of persons employed else where
Mushro om Product ion	Mushro om Product ion	Mus hroo m Prod uctio n	4	30	0	30		21	21	0
Mushro om Product ion	Mushro om Product ion	Mus hroo m Prod uctio n	4	7	33	40		36	36	0

										63
Crop	Seed product ion	Certi fied seed prod uctio n in sugar cane	4	30	0	30		23	23	0
Animal Science	Goat rearing	Com merc ial goat farmi ng	5	30	0	30	Small	21	21	0
Animal Science	IFS	Live stock base d IFS	4	27	0	27	Small	23	23	0
Total			21	124	33	157		124	124	0

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

# I) Sponsored Training Programmes

<b>C1</b>					Cli ent	N. C						rticipant	ts		1		Sponsori
S1	Title	Thema tic area	Mo nth	Duratio n (days)	PF /R Y/ EF	No. of courses	N Others	Iale SC	S T	Fe Others	s C	ST	Others	Tota S C	al ST	To tal	ng Agency

	No. of				No. c	of Partici	pants			
	Course					SC/ST	•	Ģ	Frand Tot	al
	S	Mal	General Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota
Area of training		e Iviai	e	I	e	e		e	e	I
Crop production and management										
Increasing production and productivity of										
crops										
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Other		Ī								
Total			1			I				
Post -harvest technology and value addition										
Processing and value addition										
Other										
Total										
Farm machinery										
Farm machinery, tools and implements										
Other										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										<u> </u>
Other										<u> </u>
Total						1				
Home Science										
Household nutritional security										
Economic empowerment of women										<u> </u>
Drudgery reduction of women										<u> </u>
Other										<u> </u>
Total										
Agricultural Extension										<u> </u>
Capacity Building and Group Dynamics										<u> </u>
Other			-			+				
Total										
Grant Total										L

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

Nature of			Farmers Extension Officials							Total		
Extension	No. of				SC/ ST	LAter				Total		
Activity	activities	М	F	Т	(% of total)	Male	Female	Total	Male	Female	Total	
Kisan Mela	0	0	0	0	0	0	0	0	0	0	0	
organized	0	0	0	0	0	0	0	0	0	0	0	
Kisan Mela participated	2	18000	4100	22100	34.38914	0	0	0	18000	4100	22100	
Field Day	4	177	14	191	27.74869	0	0	0	177	14	191	
Kisan Ghosthi	15	1457	301	1758	27.70193	0	0	0	1457	301	1758	
Exhibition	15	1437	501	1750	27.70175	0	0	0	1437	301	1750	
organized	0	0	0	0	0	0	0	0	0	0	0	
Participation in exhibition	7	20035	4694	24729	35.03579	0	0	0	20035	4694	24729	
Film Show	1	38	0	38	18.42105	0	0	0	38	0	38	
Method Demonstrations	11	231	3	234	12.82051	0	0	0	231	3	234	
Farmers Seminar	1	61	81	142	65.49296	0	0	0	61	81	142	
Workshop	1	6	0	6	03.49290	0	0	0	6	0	6	
-	1	0	-	0	U	0	0	0	0	0	0	
Group discussion	1	26	3	29	41.37931	0	0	0	26	3	29	
Lectures delivered as resource persons	18	1172	36	1208	18	0	0	0	1172	36	1208	
Advisory Services	222	8295	2817	11112	41.3067	0	0	0	8295	2817	11112	
Scientific visit to farmers field	151	1996	356	2352	32.31293	0	0	0	1996	356	2352	
Farmers visit to KVK	75	2151	420	2571	26.52664	0	0	0	2151	420	2571	
Diagnostic visits	0	0	0	0	0	0	0	0	0	0	0	
Exposure visits	1	37	13	50	4	0	0	0	37	13	50	
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	3	37	67	104	72.11	0	0	0	37	67	104	
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0	0	
Soil test campaigns	4	64	2	66	0	0	0	0	64	2	66	
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 Mandalas Conveners meetings	0	0	0	0	0	0	0	0	0	0	0	
Special day celebration	13	1137	387	1524	23.4252	0	0	0	1137	387	1524	

											66
Sankalp Se Siddhi	0	0	0	0	0	0	0	0	0	0	0
Swatchta Hi Sewa	15	749	126	875	29.70	0	0	0	749	126	875
Celebration of important date	10	261	58	331		0	0	0	273	58	331
Others Extension Activities	171	48365	2668	50666	33.79387	0	0	0	48365	2668	50666
Total	726	104295	16146	120086	33.69	0	0	0	104295	16146	120086

## B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	52
Radio talks	-
Books	2
Research paper	14
Review papers	2
News published in Newsletter	5
Technical report preparation	4
TV talks	-
Popular articles	9
Extension Literature (Folder)	4
Pamphlets	97
Extension bulletin	01
Electronic media coverage	4
Animal health camp	3
Any other (Abstract of research paper published in souvenir )	24
Total	221

# C. Celebration of important days in KVKs

	No. of		Fa	armers		Extension Officials				Tota	al
Celebration of Important Days	activities	М	F	Total	SC/ ST (% of total)	М	F	Total	М	F	Total
Republic day (26 <sup>th</sup> Jan.)	01	28	2	30	30	0	0	0	28	2	30
International Women's Day (8 <sup>th</sup> Mar.)	01	`12	29	41	51.21	0	0	0	12	29	41
Ambedkar Jayanti (14 <sup>th</sup> Apr.)	0	0	0	0	0	0	0	0	0	0	0
International Yoga Day (21 <sup>st</sup> Jun.)	01	18	0	18	33.33	0	0	0	18	0	18
Independence Day (15 <sup>th</sup> Aug.)	01	51	5	56	39.28	0	0	0	51	5	56
Parthenium Awareness Week	01	20	0	20	65.00	0	0	0	20	0	20
Hindi Diwas (14 <sup>th</sup> Sep.)	0	0	0	0	0	0	0	0	0	0	0
Gandhi Jayanti (2 <sup>nd</sup> Oct.)	01	17	0	17	35.29	0	0	0	17	0	17
Mahila Kisan Diwas (15 <sup>th</sup> Oct.)	0	0	0	0	0	0	0	0	0	0	0
World Food Day (16 <sup>th</sup> Oct.)	0	0	0	0	0	0	0	0	0	0	0
Vigilance Awareness Week	01	17	0	17	35.29	0	0	0	17	0	17
National Unity Day (31 <sup>st</sup> Oct.)	0	0	0	0	0	0	0	0	0	0	0
World Science Day (10 <sup>th</sup> Nov.)	0	0	0	0	0	0	0	0	0	0	0
National Education Day (11 <sup>th</sup> Nov.)	0	0	0	0	0	0	0	0	0	0	0
National Constitution Day (26 <sup>th</sup> Nov.)	01	39	2	41	14.63	0	0	0	39	2	41
World Soil Day (5 <sup>th</sup> Dec.)	01	43	6	49	20.40	0	0	0	43	6	49
Kisan Diwas (23 <sup>rd</sup> Dec.)	01	28	14	42	57.14	0	0	0	28	14	42
Total	10	261	58	331	38.12	0	0	0	273	58	331

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

S1.	Date of event	Name of Event/Programme	Interaction of		Par	ticipants	
51.	Date of event	Name of Event Programme	Hon'ble PM/AM	Farmers	Staffs	VIP/Others	Total
1.	01.01.2022	10 <sup>th</sup> Instalment of PM-	Hon'ble PM and	25	5	0	30
		Kisan Samman	AM				
2.	26.04.2022	Kisan Bhagidari	Hon'ble PM and	325	13	02	340
		Prarthmikta Hamari	AM				
3.	16.07.2022	94 <sup>th</sup> Foundation of ICAR	Hon'ble AM	191	13	01	205
4.	17.09.2022	Poshan Vatika Abhiyan	Hon'ble AM	97	13	01	111
5.	17.10.2022	PM-Kisan Samman	Hon'ble PM and	289	13	03	305
			AM				

# 3.5 a. Production and supply of Technological products

#### Village seed

Сгор	Variety	Quantity of seed(q)	Value	No. of farmers involved					
1			(Rs)	in village seed production	SC	ST	Other	Total	
Total									

## KVK farm

Сгор	Variety	Quantity of seed	Value (Pa)	Number of farmers to whom seed provided				
		(q)	(Rs)	SC	ST	Other	Total	
Paddy	Rajendra Mansuri – 1	286.2	Not received				DSP, RPCA U, Pusa	
Wheat	DBW – 39	95.0	Not received				DSP, RPCA U, Pusa	
Mustard	Rajendra Sufhalam – 1	15.75	Not received				DSP, RPCA U, Pusa	
Pigeon pea	Rajendra Arhar – 1	9.18	Not received				DSP, RPCA U, Pusa	
Sugarcane	Rajendra Ganna – 1, CoP – 9301	97.3	43,785.00	01	00	02	03	
Potato	Kufri Chipsona	3.3						
Other vegetables	Cauliflower, onion, chilly, broccoli, pea <i>etc</i> .	4.88						
Grand Total		511.61						

# Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)			mber of farmers anting material provided		
				SC	ST	Other	Total	
Vegetable seedlings								
Cauliflower	Pusa Sharad	300	300.00	0	0	01	01	
	Pusa Ketaki	200	200.00	0	0	02	02	
	HY Safed	700	700.00	02	0	07	09	
Cabbage	-	-	-	-	-	-	-	
Tomato	Hybrid	300	300.00	0	0	01	01	
	F1HY Laxmi	700	700	02	0	07	09	
Brinjal	-	-	-	-	-	-	-	
Chilli	K2	95	95.00	0	0	01	01	
	S-716	970	970.00	05	0	10	15	

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	BNR-109	1030	1030	02	0	07	09
	VNR-145	1000	1000.00	02	0	07	09
Onion	N-53	85165	10219.80	02	0	02	04
Sponge Gourd	Rajendra	461	2766.00	21	01	32	54
	Hybride	50	300.00	03	0	07	09
Bottle Gourd	Chamatkar	323	1938	13	0	22	35
	Nerendra Shivani	110	660	08	0	14	22
	LBH Latto No.1	60	360	04	02	06	12
Bitter Gourd	NBIH-332F1	50	300	02	02	06	10
Brokly	HY	1105	2210.00	02	0	07	09
Pointed Guard	N-207, N-360	90	2700.00	06	01	10	17
Flowers	Marigold Narangi	500	300.00	01	0	0	01
Vegetable							
Onion							
Others							
Fruits							
Mango							
Guava							
Lime							
Papaya							
Banana							
Others							
Ornamental plants							
Medicinal and							
Aromatic							
Plantation							
Spices							
Turmeric							
Tuber							
Elephant yams							
Fodder crop saplings							
Forest Species							
Others, pl.specify							
Total		93209	27048.8	75	6	149	229

### **Production of Bio-Products**

	Quantity					
Name of product	Kg	Value (Rs.)	No.	of Farm	ers bene	fitted
			SC	ST	Other	Total
Bio-fertilizers						
Bio-pesticide						
Bio-fungicide						
Bio-agents						
Others, please specify.						
Total						

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	Rohu+Katla+Mirgal+Grass carp	120 kg.	21,600	07
Exotic carp				
Mixed carp				
Fish fingerlings				
Spawn				
Others (Pl. specify)				
Grand Total	Rohu+Katla+Mirgal+Grass carp	120 kg.	21,600	07

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

i) Name of Seed Hub Centre:

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

ii) Quality Seed Production of Pulses

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed(F/S, C/S)
Kharif 2021						
Rabi 2021						
14012021						
Summer/Spring 2021						

### iii) Financial Progress

Fund received	Expenditure	e (Rs. in lakhs)	Unspent balance	
(2016-17, 2017-18, 2019, 2020 and 2021)	Infrastructure Revolving fund		(Rs. in lakhs)	Remarks
2016-17				
2017-18				
2018-19				
2019				
2020				
2021				
2022				

#### iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

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

Author's name	Year	Title	ISBN No./ISSN Copy	Circulation
		Research pap		
Dutta, A., Bhattacharyya, R., Jiménez-Ballesta, R., Dey, A., Saha, N.D., Kumar, S., Nath, C.P., Prakash, V., Jatav, S.S., <b>Patra, A.</b>	2022	Conventional and zero tillage with residue management in rice– wheat system in the Indo- Gangetic Plains: Impact on thermal sensitivity of soil organic carbon respiration and enzyme activity	International Journal of Environmental Research and Public Health, 20: 810. doi: 10.3390/ijerph20010810	NAAS Rating – 9.39/ Impact Factor 4.614
Yadav, B., Malav, L. C., Jiménez- Ballesta, R., Kumawat, C., <b>Patra, A.</b> , Patel, A., Jangir, A., Nogiya, M., Meena, R. L., Moharana, P. C., Kumar, N., Sharma, R. P., Yadav, L. R., Reddy, G. P. O., and Mina, B. L.	2022	Modeling and assessment of land degradation vulnerability in aridecosystem of Rajasthan using analytical hierarchy process and geospatial techniques	doi: 10.3390/land12010106	NAAS Rating – 9.40/ Impact Factor 3.905
Goswami, S., Singh, S. K., <b>Patra, A.</b> , Dutta, A., and Mohapatra, K. K.	2022	Residual effects of nickel and its interaction with applied zinc and NPK improve the growth, yield, and nutritional quality of cowpea and urease activity of soil grown in Vertisols	Journal of Soil Science and Plant Nutrition, 1-11. doi: 10.1007/s42729-022- 01024-2	NAAS Rating – 9.87/ Impact Factor 3.610
Anil, A. S., Sharma, V. K., Jiménez-Ballesta, R., Parihar, C. M., Datta, S. P., Barman, M., Chobhe, K. A., Kumawat, C., <b>Patra, A.</b> , and Jatav, S. S.	2022		<i>Land</i> , 11 (9): 1488. doi: 10.3390/land11091488	NAAS Rating – 9.40/ Impact Factor 3.905
Didawat, R. K., Sharma, V. K., Nath, D. J., <b>Patra,</b> <b>A.</b> , Kumar, S., Biswas, D. R., Chobhe, K. A., Bandyopadhyay, K. K., Trivedi, A., Chopra, I., Dutta, A., Mohapatra K. K., and Anil, A. S.	2022	Soil biochemical properties and nutritional quality of rice cultivated in acidic inceptisols using long-term organic farming practices	Archives of Agronomy and Soil Science, 1-16. doi: 10.1080/03650340.2022.20840 84	NAAS Rating – 9.09/ Impact Factor 2.242
				73
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Jatav, S. S., Singh, S. K., Kumar, S., Parihar, M., <b>Patra, A.</b> , Rana, K., and Jatav, H. S.	2022	Effect of direct and residual sewage-sludge application on physiological attributes of rice-wheat cropping system	Indian Journal of Agricultural Sciences, 92 (6): 675–679	NAAS Rating – 6.37/ Impact Factor 0.37
Shashank Singh, Biswarup Mehera, Subhangi Singh, <b>RP Singh</b> and <b>Abhik Patra</b>	2022	Effect of phosphorus and sulphur application on yield attributes and yield of linseed ( <i>Linum</i> <i>usitatissimum</i> L.) grown in middle gangetic plain	<i>The Pharma Innovation Journal</i> , 11(10): 214-216	NAAS Rating - 5.23
Shashank Singh, Biswrup Mehra, Subhangi Singh, SK Singh, <b>RP Singh</b> and <b>Abhik Patra</b>	2022	Effect of phosphorus and sulphur application on growth attributes and growth rate of linseed ( <i>Linum usitatissimum</i> L.) grown under sandy loam soil	The Pharma Innovation Journal, 11(11): 422-425	NAAS Rating -5.23
<b><u>RP</u> Singh</b> , AK Singh, VP Singh RK Singh and Deepshikha Dixit	2022	IntegratedPestManagement Approachin PulseCropsSustainabilityofFarmers Income	Indian Journal of Agricultural Sciences, 94 (4): 531-535	NAAS rating: 6.37
Omkar Singh, Dharmendra Kumar Singh, Abhishek Singh, <b>RajendraPrata</b> <b>p Singh</b> , Sunita Pandey, Ashish Kumar Bajpai	2022	Increasing Productivity of Lentil ( <i>Lens</i> <i>culinaris</i> ) using Improved Varieties under Alluvial Soil of Uttar Pradesh by Cluster Front Line Demonstrations	Legume Research- An International Journal, 45(4): 492-496	NAAS rating: 6.59
RameshKumarNirala1,VKGond,SKGangwar,KAnjana,CJayachandran,MK Singh, <b>RP</b> SinghVP SinghAnd	2022	Immunological effect of sparfloxacin in goats	Indian Journal of Animal Sciences, 92 (5): 555–559	NAAS rating: 6.32
<b>RP</b> Singh,SKGangwar,DKTiwari,PKMishra andAKSingh	2022	Constraints Faced by Sugarcane Growers in West Champaran District of Bihar	Indian Journal of Extension Education, 57 (4): 78-81	NAAS rating: 5.95
SK Gangwar, <u><b>R P Singh,</b></u>	2022	Effect of Foliar Application of Nano- Fertilizers on Growth and Yield of Wheat ( <i>Triticum aestivum</i> L.)	Advances in Bioresearch, 13 (3): 190-193	NAAS rating: 4.53

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PK Mishra, R.				
Ahmad and AK				
Singh				
-	2022	Predictive Attributes	International Journal of	NAAS
<b>,</b>	2022	Influencing Adoption	5	rating: 3.45
Utpal Kant,		level of Farmers'	<i>Extension Education</i> , 18 (2): 43-48	1 atilig. 3.43
Sudhanand		apropos Climate	43-48	
Prasad Lal,		Resilient Agriculture		
Ratnesh Kumar		Technologies in Bihar		
Jha, S.K.		reennoiogies in Dina		
Gangwar,				
<b><u>R.P.</u></b> Singh and				
Dhiru Kumar				
Tiwari				
IIwall		Doriow non		
Singh, S. K.,	2022	<b>Review pape</b> Surface seeding of	er Sustainability, 14 (12): 7460.	NAAS
$\begin{array}{ccc} \text{Singn}, & \text{S.} & \text{K.}, \\ \textbf{Patra,} & \textbf{A.}, \end{array}$	2022	wheat: A sustainable	doi: 10.3390/su14127460	NAAS Rating –
Chand, R., Jatav,		way towards climate	uoi. 10.3370/8014127400	<b>9.25</b> / Impact
H. S., Luo, Y.,		resilience agriculture		Factor 3.889
Rajput, V. D.,		resilience agriculture		1 actor 5.007
Sehar, S., Attar,				
S. K., Khan, M.				
A., Jatav, S. S.,				
Minkina, T., and				
Adil, M. F.				
Kumawat, C.,	2022	Microbial diversity and	Sustainability, 14 (15): 9280.	NAAS
Kumar, A.,		adaptation under salt-	doi: 10.3390/su14159280	Rating –
Parshad, J.,		affected soils: A review		<b>9.25</b> / Impact
Sharma, S. S.,				Factor 3.889
Patra, A.,				
Dogra, P.,				
Yadav, G. K.,				
Dadhich, S. K.,				
Verma, R., and				
Kumawat, G. L.			•	
		Seminar/conference/ syn		
R. P. Singh,	2022	Abstract of researcePotatoandMaize	Vision 2047: Sustainable	22
Abhik Patra,	2022	Intercropping: A way	Developments Towards	
· · · · · · · · · · · · · · · · · · ·		towards Eco-Friendly	Atma Nirbhar Bharat	
S.K. Gangwar,		Pest Management and	(VSANB 2022); December,	
R. K. Jha, Gagan		Enhancing Productivity	23-24, 2022 at Footwear	
Kumar, Pankaj			Design and Development	
Malkani, B. K.			Institute (FDDI) Banaur,	
Singh, D. K.			Chandigarh, India	
Tiwari, Abhinav				
Kumar Singh, M.				
S. Kundu and				

				7
Anupama				
Kumari				
<b>R. P. Singh,</b> S.K.	2022	Zero Tillage		18
Gangwar, R. K.		Technology as a	Developments Towards	
Jha, Abhik Patra,		Pathway for Wheat	Atma Nirbhar Bharat	
Pankaj Malkani,		(Triticum aestivum L.)		
D. K. Tiwari,		Productivity and	,	
,		Profitability in North	-	
Gagan Kumar,		West Alluvial Plain	Institute (FDDI) Banaur,	
B. K. Singh,		Zone of West	Chandigarh, India	
Subhashisa		Champaran District,		
Praharaj,		Bihar		
Chelpuri				
Ramulu,				
Abhinav Kumar				
Singh, M. S.				
Kundu and				
Anupama				
Kumari				
R. P. Singh, S.K.	2022	Low-cost evaporative	Vision 2047: Sustainable	7
Gangwar, D. K.		cooling technique for	Developments Towards	
Tiwari, Abhik		storage of potato, onion	Atma Nirbhar Bharat	
Patra, Gagan		and garlic in West		
Kumar		Champaran, Bihar,	23-24, 2022 at Footwear	
		India	Design and Development	
			Institute (FDDI) Banaur,	
			Chandigarh, India	
Abhik Patra, <u><b>R.</b></u>	2022	Growth and Yield	Vision 2047: Sustainable	20
<u>P. Singh</u> , M. S.		Performance of	Developments Towards	
Kundu, S. K.		Various Wheat	Atma Nirbhar Bharat	
Gangwar, R. K.		Varieties in North West		
Jha, Gagan		Alluvial Plain Zone	23-24, 2022 at Footwear	
Kumar, Pankaj			Design and Development	
Malkani, B. K.			Institute (FDDI) Banaur,	
Singh <sup>1</sup>			Chandigarh, India	
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S.K. Gangwar,	2022	Impact of various rice	Vision 2047: Sustainable	
R. P. Singh, R.		and wheat production	Developments Towards	21

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K. Jha, D. K. Tiwari, Abhik Patra, Gagan Kumar, Pankaj Malkani, B. K. Singh, Abhinav Kumar Singh, M. S. Kundu and Anupama Kumari		technologies on productivity and profitability under the climate resilience agricultural programme	Atma Nirbhar Bharat (VSANB 2022); December, 23-24, 2022 at Footwear Design and Development Institute (FDDI) Banaur, Chandigarh, India	
<b><u><b>R.P. Singh</b></u> and Durga Prasad</b>	2022	Mushroom Enterprise: A good option for agri- entrepreneurship	Vision 2047: Sustainable Developments Towards Atma Nirbhar Bharat (VSANB 2022); December, 23-24, 2022 at Footwear Design and Development Institute (FDDI) Banaur, Chandigarh, India	54
<b><u><b>R.P. Singh</b></u> and Durga Prasad</b>	2022	Role of Mushroom Technology in Socioeconomic Upliftment of Society	Vision 2047: Sustainable Developments Towards Atma Nirbhar Bharat (VSANB 2022); December, 23-24, 2022 at Footwear Design and Development Institute (FDDI) Banaur, Chandigarh, India	52
Durga Prasad and <u><b>R.P. Singh</b></u>	2022	Mushroom Production in India: Current Status and Future Needs	Vision 2047: Sustainable Developments Towards Atma Nirbhar Bharat (VSANB 2022); December, 23-24, 2022 at Footwear Design and Development Institute (FDDI) Banaur, Chandigarh, India	53
Durga Prasad and <b><u><b>R.P. Singh</b></u></b>	2022	Mushroom Production in the World: An Overview	Vision 2047: Sustainable	51
D.K. Tiwari, S.K. Gangwar, <u><b>R. P. Singh,</b></u> Abhik Patra, M. S. Kundu and Anupama Kumari	2022	Impact of improved package and practices of bottle gourd under frontline program	Vision 2047: Sustainable Developments Towards Atma Nirbhar Bharat (VSANB 2022); December, 23-24, 2022 at Footwear Design and Development Institute (FDDI) Banaur, Chandigarh, India	13

D.K. Tiwari, S.K. Gangwar, <b><u>R. P. Singh,</u> M.</b> S. Kundu, Saurabh Dubey, Subhashisa Praharaj, Chelpuri Ramulu and Ranjan Kumar	2022	Frontline demonstration of eco- friendly trap for management of fruit fly in Mango	Atma Nirbhar Bharat	26
D.K. Tiwari, S.K. Gangwar, <u><b>R. P. Singh,</b></u> M. S. Kundu, Saurabh Dubey, Subhashisa Praharaj, Chelpuri Ramulu and Ranjan Kumar	2022	Performance of early cauliflower variety Sabaur Agrim in West Champaran district of Bihar		8
Shashank Singh, Biswrup Mehra, Subhangi Singh, S. K. Singh, <u><b>R.</b></u> <u><b>P. Singh</b></u> and Abhik Patra	2022	Applicationofphosphorousandsulphur effectsgrowthattributesandgrowthgrowthrateoflinseed(LinumusitatissimumL.)grownundermiddleGangetic plan	DevelopmentsTowardsAtmaNirbharBharat(VSANB 2022);December,23-24,2022atFootwear	17
Shashank Singh, Biswrup Mehra, Subhangi Singh, <u><b>R. P. Singh</b></u> and Abhik Patra	2022	Yield attributes and yield of linseed ( <i>Linum</i> <i>usitatissimum</i> L.) as affected by phosphorus and sulphur application grown under sandy loam soil	DevelopmentsTowardsAtmaNirbharBharat(VSANB 2022);December,23-24,2022atFootwear	15
<b>R.P. Singh</b> , S.K. Gangwar, Abhik Patra, D. K. Tiwari, Gagan Kumar, Pankaj Malkani, Bhushan Kumar Singh, Abhinav Kumar Singh, M. S. Kundu and	2022	Effect of different rice and wheat cultivation intervention under climate resilience agriculture program	3 <sup>rd</sup> Internatioanl Conference on Sustainable Development Initiatives in South East Asia, 07-08, November, 2022, Venue: Hotel Akama, Kathmandu, Nepal	03

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Anupama Kumari				
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डॉ .आर .पी. सिंह, डॉ	2022	प्राकृतिक खेती अपनाएं –	प्रकाशक- कृषक चेतना जबलपुर	-
ए.के. सिंह ,डॉ. एस.के.		कम लागत में अधिक	Reg. no.:	
गंगवार, डॉ अभय कुमार		लाभ कमायें	RNI/MPHIN/2010/37315	
सिंह				
<u>डॉ .आर .पी. सिंह,</u> डॉ	2022	प्राकृतिक खेती में फसल	प्रकाशक- कृषक चेतना जबलपुर	-
ए.के. सिंह ,डॉ. एस.के.		प्रबंधन के उपाय	Reg. no.:	
गंगवार, डॉ अभय कुमार			RNI/MPHIN/2010/37315	
सिंह				
Technical reports	2022	1. Annual Progress Report of KVK,		
		Narkatiaganj for the year 2021		
		2. 6 <sup>th</sup> EEC report		
		3. Action Plan of KVK,		
		Narkatiaganj for the year		
		2022 - 2023		
		4. SAC meeting report of 2022		
Electronic				
Publication				
(CD/DVD etc)				
Total	162			

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.	Winter school	Climate smart agriculture for sustainable production	Mr. Abhik Patra, SMS – Crop Production	28 <sup>th</sup> March to 17 <sup>th</sup> April, 2022, <b>21</b> days	Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar
2.	Capacity Building Program	Solar powered Irrigation System	Mr. Pankaj Malkani SMS-Agricultural Engineering	25 <sup>th</sup> -27 <sup>th</sup> May, 2022 <b>3 days</b>	BISA Jabalpur
3.	Online workshop	All India fodder production officers: Kharif	Mr. Abhik Patra, SMS – Crop Production	28-30 <sup>th</sup> June, 2022, <b>3 days</b>	ICAR- Indian Grassland and Fodder Research

					88
					Institute, Jhansi
4.	Online training	Extension strategies for	Mr. Abhik Patra,	22-26 <sup>th</sup> August,	Bihar
		promotion of climate	SMS – Crop Production	2022, <b>5 days</b>	Agricultural
		resilient agriculture	_	-	University,
					Sabour,
					Bhagalpur
5.	Management	Developing Winning	Mr. Abhik Patra,	12-17 <sup>th</sup> September,	ICAR-National
	development	research proposals	SMS – Crop Production	2022, 6 days	Academy of
	program				Agricultural
					Research
					Management
					Rajendranagar,
					Hyderabad
6.	21 days training	Advance course on	Mr. Abhik Patra,	29th November –	BISA-
		climate resilient	SMS – Crop Production	19 <sup>th</sup> December,	Ludhiana and
		agriculture (CRA)		2022, <b>21 days</b>	Jabalpur
7.	Online training	All India fodder	Dr. Bhushan Kumar Singh	28-30 <sup>th</sup> June, 2022,	ICAR- Indian
		production officers:	SMS – Animal Science	3 days	Grassland and
		Kharif			Fodder
					Research
					Institute,
					Jhansi
8.	Online training	Extension Approaches	Dr. Bhushan Kumar Singh	23-25 November	MANAGE and
		for sustainable buffalo production	SMS – Animal Science	2022, 3 days	KVAFSU

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

Name of farmer	Mr. Anand Kumar Singh
Address	Village: Samhauta of Narkatiaganj block, West Champaran district in Bihar
Contact details (Phone, mobile,	8340491683
email Id)	
Landholding (in ha.)	27
Name and description of the farm/ enterprise	Integrated Farming System (Crop + Fisheries based)
Economic impact	Mr. Anand Kumar Singh was born in farming family hails from the village
	Samhauta of Narkatiaganj block, West Champaran district in Bihar. He
	completed his graduation and chosen agriculture as a profession and started
	devoting his time focusing on a better farming. He is having 27 acre of land.
	Initially, he used to grow only rice, wheat, sugarcane and fisheries by
	adopting traditional methods. He was not getting the expected income. He
	felt that doing agriculture through conventional method minimized the yield
	and income. It is also associated with low productivity, increased cost on
	agriculture inputs and poor or no utilization of existing farm resources
	available in the farm. He came in contact of KVK scientists and other
	agencies like agriculture, horticulture, animal husbandry, he incorporated the
	major components of Integrated Farming Systems for diversified agriculture
	(Rice, Wheat, Sugarcane, Mustard, Mango, Makhana cultivation, Dairy,
	Fisheries/ Prawn farming) for enhancing his farm income. Now, he is a role

	model for other agri-entrepreneur in the district for adopting Integrated Farming System.
	After establishing the integrated farming system, his net income increased to Rs. 2685600 lakh/-annually from 27 acre land. The overall average production growth and net income was 48.31 and 114.40 per cent more ove previous baseline period. Mr. Singh has become a role model for fellow farmers in the district Wst Champaran of Bihar. His socio-economic statu is recognized as a Progressive Farmers. His plan for the future is to expand IFS model and inculcating the value of agriculture among youth who are quitting agriculture. His future plan is also to increase his area unde orchards. According to Mr. Singh, "a diversified farming system is like flower plants of different colours in a beautiful garden".
Social impact/Recognition	<ul> <li>The partner farmers and neighboring farmers were fully convinced aboud different components of integrated farming system i.e. different species of fishes, sugarcane settling transplanting technique (STT) with intercorping of short duration and short statured crop like potato, field pea, lentil and wheat, makhana cultivation, fruits plants (mango, litchi). Farmers becoming aware that saving of water and cost of fertilizers through use of drip and fertigation system in sugarcane crop, saving of power consumption and irrigation labour costs, wider row spacing and intercropping is one of the most important cultural practices for decreases insect-pests and diseases a well as increases doubling farmers income, nutritional and livelihood security. Intercropping in sugarcane crop has indicated more benefits in terms of net profits mainly resulting reduces cost of cultivation, reduction o incidence of insect pests and diseases and greater resource utilization and fulfils the diversified needs of the farmers. Farmer's confidence improved with KVK scientist and sugar mill officials to have face to face discussion and facilitated sharing of knowledge with experiences. Intercropping with sugarcane STT encouraged the partner and neighboring farmers to act their farm work in a more systemic and specific manner and also reducing plan protection input/other input costs and providing various environmenta benefits. Crop based IFS model has indicated more benefit in terms of ne profits mainly resulting reduces cost of cultivation, reduction of increasing the productivity, profitability and nutritional security of sugarcane growers a well as socio economic status of farmers. He has recognized by differen institutions i.e.</li> <li>Abhinav Kisan Puraskar-2020 by Dr Rajendra Prasad Centra Agricultural University, Pusa, Samastipur, Bihar</li> <li>Plaque of Appreciation awarded for his significant contribution to the significant contribution to the sugarcane for the second and getting higher monetary by district ma</li></ul>

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	<ul> <li>STRASA and particularly his substantial role involvement in creating generating awareness and promoting stress tolerant rice in Bihar by IRRI, Philippines, Manila.</li> <li>Recognition certificate for Fingerlings production-2021 by district Fisheries department, West Champaran, bihar.</li> <li>Kisan Shri Award by ATMA, West Champaran, Bihar.</li> </ul>
Environmental impact	They are reducing the contamination of environment by adoption of different components of IFS in their cropping system. The number of friendly insects in the surrounding environment increases by growing intercrop in sugarcane crop, due to which the use of chemical pesticides is reduced and hygienic products are obtained.
Horizontal/ Vertical spread	The rapid horizontal/vertical expansion of crop based IFS model and STT technique in sugarcane crop with intercropping are ensured to increasing the productivity, profitability and nutritional security of sugarcane growers as well as socio economic status of farmers. The outcome of these new technology for higher sugarcane production and fisheries inspired the farming communities to replace their conventional method of transplanting/sowing technique with resistance high yielding varieties which are being cultivated. More than 10 crop based IFS model and >1000 acre area are being cultivated by this technologies.
	<image/>
Crop I	Production and Mango cultivation by Mr Anand Singh



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Methodology adopted by the farmers	<ul> <li>Major steps involved in raising single bud or bud-chip settlings and intercropping are given below.</li> <li><b>1.</b> Preparation of single-bud setts or bud-chips for one acre, 6–8-month-old plant crop (6-7 qt. seed cane), protray (50 cavity-200 no.), cocopeat (25 kg), vermicompost/FYM (7 qt.), jaivik shakti compost manure (1 qt.), sand (25 kg), fungicide (100 g), insecticide (500 ml), NPK powder 100g, humic acid 30 ml, use single bud sett cutter or bud chip machines available locally are required. Mr. Singh collected the all materials for settling production as per norms.</li> <li><b>2.</b> Single bud setts cut by single bud cutter machine and treated with nutrients and pesticides (0.1% each of Urea, FeSO4 and ZnSO4; and 0.04% Propiconazole fungicide) manually. Planted single budded setts vertically/bud-chips with buds facing upwards in protrays/ cavity trays using above mentioned ratio potting mixture of sand: soil: decomposed FYM/cocopeat/vermicompost etc.</li> <li><b>3.</b> Stacked the sett filled protray vertically one over others and cover the trays with polythene sheet and leave it for 5-6 days.</li> <li><b>4.</b> After 5 days unpacked the trays, spread it horizontally. Watering followed in the settlings regularly. The settlings will be ready for transplanting by 30-35 days.</li> <li><b>5.</b> He transplanted 30-35 days old settlings in the main field using the sugarcane settling transplanting technique manually with normal planting spacing of 5 x 2 feet (row x plant) distance in a paired row and zig-zag (5000 settling/acre) and also at 4 x 1.5 feet (row x plant) distance in a single line (8000 settling/acre). He irrigates the field for maintaining the plant populations. He used drip irrigation and fertigation system in their sugarcane plots for proper delivery of water and fertilizer sat active root zone resulting in higher water and fertilizer use efficiency.</li> <li><b>6.</b> In wider row spacing, planted sugarcane + potato, sugarcane + field pea, sugarcane + lentil and sugarcane + wheat in their farm field.</li> </ul>
Economic impact	<b>Mr. Sachin Kumar Singh</b> had heard about the importance of sugarcane settling transplanting technique through Harinagar Sugar Mill (HSM) officials, Scientists of RPCAU, Pusa and newspaper etc. He also exposed his keen interest to HSM officials and KVK scientists for adoption of settling transplanting technique for sugarcane production in their farm. He started their work on said technology with intercropping of potato, field pea, lentil and wheat since 2017-18. He also adopted drip irrigation system for irrigation in STT methodology. By taking the technical knowledge from KVK scientists and HSM officials. Now, he is doing sugarcane production technology through settling transplanting technique with intercropping in an area of 15 acre with other recommended package of practices. All the necessary arrangement made by Harinagar Sugar Mill officials and KVK, technocrats regarding scientific cultivation of sugarcane settling transplanting technique with intercropping during 2020-21. Mr. Sachin Singh adopted sugarcane settling transplanting technique with intercropping of sugarcane + potato, sugarcane + field pea, sugarcane + lentil and sugarcane + wheat for higher production, income and their livelihood security. He also adopted other package and practices with proper insect-pest and disease management as per suggestion of KVK scientists. He harvested 5250 qt production of sugarcane including intercropped yield from 15-acre lands during 2020-21. He also harvested 79 qt. produce (paddy and wheat) during 2020-21. He got net returns of Rs. 978750/- and Rs. 80700/- from sugarcane STT with intercropping and paddy and wheat, respectively during 2020-21. It was 312.11 and 54.60 per cent more over previous baseline period. He received total net income of Rs. 1135450/- during 2020-21, which was 240.77 per cent more over previous baseline period (Rs. 333200/-during

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	2016-17). He is also producing about 3600 litre milks from their 4 cows and receiving net income about Rs. 76000/- annually from their livestock's, which is 74.71 per cent more over previous baseline period.
Social impact	The partner farmers and neighboring farmers were fully convinced about sugarcane settling transplanting technique (STT) with intercropping of short duration and short statured crop like potato, field pea, lentil and wheat. Farmers becoming aware that saving of water and cost of fertilizers through use of drip and fertigation system in sugarcane crop, saving of power consumption and irrigation labour costs, wider row spacing and intercropping is one of the most important cultural practices for decreases insect-pests and diseases as well as increases doubling farmers income, nutritional and livelihood security. Intercropping in sugarcane crop has indicated more benefits in terms of net profits mainly resulting reduces cost of cultivation, reduction of incidence of insect pests and diseases and greater resource utilization and fulfils the diversified needs of the farmers. Farmer's confidence improved with KVK scientist and sugar mill officials to have face to face discussion and facilitated sharing of knowledge with experiences. Intercropping with sugarcane STT encouraged the partner and neighboring farmers to act their farm work in a more systemic and specific manner and also reducing plant protection input/other input costs and providing various environmental benefits. The technology is capable for increasing the productivity, profitability and nutritional security of sugarcane growers as well as socio economic status of farmers.
Environmental impact	They are reducing the contamination of environment by the use of pesticides in their crops through drip system. The number of friendly insects in the surrounding environment increases by growing intercrop in sugarcane crop, due to which the use of chemical pesticides is reduced and hygienic products are obtained.
Horizontal/ Vertical spread	Sugarcane settling transplanting technique (STT) with intercropping are adopted by them and enhanced the yield of Sugarcane + Potato/Field pea/Lentil/Wheat about 250% more over conventional method followed by Paddy-Wheat (23.44%) and by dairy animal (20%). The overall production increased by 253.06 per cent and income jumped about 240.77 per cent. The rapid horizontal/vertical expansion of STT technologies of the sugarcane crop with intercropping are ensured to increasing the productivity, profitability and nutritional security of sugarcane growers as well as socio economic status of farmers. The outcome of these new technology for higher sugarcane production inspired the farming communities to replace their conventional method of transplanting/sowing technique with resistance high yielding varieties which are being cultivated. More than 1000 acre area are being cultivated by this technologies.
Com Con	



Bud cutting by farmer through single bud cutter machine, sett treatment, prepared compost and placement of single bud in protrays





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

ing the year			
Sl. No.	Name/ Title of the	Name/ Details of	Brief details of the Innovative Technology
	technology	the Innovator(s)	
1	Fish pond based integrated farming system Mango orchard Solar powered based Irrigation system Makhana Cultivation Custom hiring Center STT based Sugarcane cultivation	Mr. Anand Kumar Singh Village: Samhauta, Block: Narkatiyaganj, Distt.: W. Champaran	Establishment of the integrated farming system, the net income increased to Rs. 2685600 lakh/-annually from 27 acre land. The overall average production growth and net income was 48.31 and 114.40 per cent more over previous baseline period. Mr. Singh has become a role model for fellow farmers in the district West Champaran of Bihar. His socio-economic status is recognized as a Progressive Farmers. His plan for the future is to expand IFS model and inculcating the value of agriculture among youth who are quitting agriculture. His future plan is also to increase his area under orchards. According to Mr. Singh, "a diversified farming system is like

	1		96
			flower plants of different colours in a beautiful garden".
2.	STT based sugarcane cultivation Drip Irrigation system for the irrigation of Sugarcane Developed methodologies for portray mix preparation for STT	Mr. Sachin Singh Village: Katsikri, Block: Ramnagar, Distt.:W. Champaran	Preparation of single-bud setts or bud- chips for one acre, 6–8-month-old plant crop (6-7 qt. seed cane), protray (50 cavity-200 no.), cocopeat (25 kg), vermicompost/FYM (7 qt.), jaivik shakti compost manure (1 qt.), sand (25 kg), fungicide (100 g), insecticide (500 ml), NPK powder 100g, humic acid 30 ml, use single bud sett cutter or bud chip machines available locally are required. Mr. Singh collected the all materials for settling production as per norms. Single bud setts cut by single bud cutter machine and treated with nutrients and pesticides (0.1% each of Urea, FeSO4 and ZnSO4; and 0.04% Propiconazole fungicide) manually. Planted single budded setts vertically/bud-chips with buds facing upwards in protrays/ cavity trays using above mentioned ratio potting mixture of sand: soil: decomposed FYM/cocopeat/vermicompost etc. Stacked the sett filled protray vertically one over others and cover the trays with polythene sheet and leave it for 5-6 days. After 5 days unpacked the trays, spread it horizontally. Watering followed in the settlings regularly. The settlings will be ready for transplanting by 30-35 days.

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) 3.9.

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Wheat and Mustard	Seed treated with BEEJAMRIT	For healthy plant growth and higher yield with less nutrient requirement
2.	Mustard	Application of Varmiwash	For insect pest management

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 and Mustard	12 ha & 5 ha	Crop is in Standing phase	10	Yes
2.	Mustard	3 ha	Crop is in Standing phase	6	Yes

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#### 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.	Village level survey by developed data collection tools (interview schedules, questioner, etc.)	To access the need based training
2.	PRA and RRA activity	To access the need based training and to know the socio-economic status of the farmers, natural resources availability, etc.

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

Sl. No	Name of the Equipment	Qty.

### 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						

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

S1.	Analysis	No. of Samples analyzed	No. of Villages	No. of Farmers	Amount realized (Rs.)
1.	Soil	1800	46	1800	Soil sample tested by HSM, Ramnagar
2.	Water				
3.	Plant	238	14	238	
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.	Kisan gosthi	49	0	0	Nil	49
2	Method demonstra tion for soil sampling	49	0	0	Nil	49

### 3.12. Activities of Rain Water Harvesting structure and micro irrigation system

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

#### 3.13. Technology week celebration

	Type of activities	No. of activities	Number of participants	Related crop/livestock technology			
2 1							
3.14	3.14. RAWE/ FET programme - is KVK involved? (Y/N)- NO						
1	No of student trained			No of days stayed			

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
MP (Rajy Sabha	Hon'ble Shri Satish Chandra Dubey	Inauguration of Kisan Bhagidari-Prathmikata Hamari Program-2022
Dean, College of Fisheries, RPCAU, Pusa	Dr P P Srivastava	SAC meeting
DEE, RPCAU, Pusa	Dr M S Kundu	SAC Meeting

#### 4. IMPACT

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

Name of specific	No. of participants	% of adoption	Change in income (Rs.)	
technology/skill transferred	No. of participants		Before (Rs./Unit)	After (Rs./Unit)
STT and IFS, Natural farming				

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						
STT	1200 ha						
Rajender ganna-1	450 ha						
Rajender suflam-1	600 ha						

Give information in the same format as in case studies

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

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

### 4.4. Details of innovations recorded by the KVK

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

### 4.5. Details of entrepreneurship development

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

### 4.6. Any other initiative taken by the KVK

### 5. LINKAGES

### 5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
National Horticulture Mission	To establish model nursery, vegetable seed production, training
	of farmers, supply of planting materials
ATMA, West Champaran	Training of farmers, Infrastructure development, Assessment,
	refinement, validation and adaptation of trial
Directorate of Sugarcane, Bihar Govt.	Development of seed production programme of Sugarcane
DHO, W. Champaran	Training of farmers, Kisan goshthi
DAO, W. Champaran	Training of farmers, Kisan goshthi and Kisan Mela
DFO, W. Champaran	Training of farmers, Kisan goshthi
DAHO, W. Champaran	Training of farmers, Kisan goshthi
NGO	Training of farmers, Kisan goshthi
Super Kisan Clubs,	
Fakirana Sister Society	
KisanJagaranSamittee, Bagaha	
NABARD	Formation of Kisan club, Training of Farmers, Krishan goshthi.
CISA	Training of farmers, gosthi, field visit
Jeevika	Training of farmers

# 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.)

### 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl.	Name of	Year	Area	Details of production			Amoun		
No.	demo Unit	of	(Sq.	Variety/bre	Produce	Qty.	Cost of	Gross	Remarks
110.	denio enit	estt.	mt)	ed	Troduce	Qty.	inputs	income	
1.									
2.									
3.									
4.									
5.									
6.									
7.									
	Total								

#### 6.2.Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of (eq)		Details of production			Amount	Domonia	
		harvest	Area (ha)	Variety	Type of Produc e	Qty. (q)	Cost of inputs	Gross inco me	Remark s
Paddy	4-6 July, 2022	26-29 Novem ber, 2022	6 ha	R. mahsuri	F/S	286.2	-	-	Kharif -2022
Wheat	8-16 Decemb er, 2021	26-29 April, 2022	6 ha	DBW 39	F/S	95	-	-	Rabi, 2021- 2022
Wheat	8-16 Decemb er, 2022	Standin g position	6 ha	DBW 39	B/S and F/S	-	-	-	Rabi, 2022- 2023
Pigeon pea	25 July, 2021	12-14 May, 2022	1 ha	R. arhar-1	F/S	9.18	-	-	Kharif , 2021- 2022
Pigeon pea	20-23 July, 2022	Standin g position	1 ha	R. arhar-1	F/S	-	-	-	Kharif , 2022- 2023

									101
Mustard	5-6 Novem ber, 2021	20-24 April, 2022	2 ha	R. Suflam	T/L	19.75	-	-	Rabi, 2021- 22
Mustard	2-4 Novem ber, 2022	Standin g position	1 ha	R. Suflam	T/L	-	-	-	Rabi, 2022- 2023
Sugarcane	10 Novem ber, 2021	12-18 Decemb er, 2022	1.75 ha	Rajendra ganna-1 and CoP 9301	B/S	97.3	-	-	Autu mn, 2022
Sugarcane	09 March, 2022	Standin g position	0.5 ha	Rajendra ganna-1	B/S	-	-	-	Spring , 2022
Total						503.43			

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

S1.	Sl. Name of the		Amou			
No.	Product	Qty. (Kg)	Cost of inputs	Gross income	Remarks	
1.						

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

S1.	Name	Details of proc	Details of production				
No of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks	
1.	Aquatics	Rohu+Katla+Mirgal+Grass carp	Fish	120 kg	-	21000	Remaining harvesting will be done in next season
2.							
3.							

### 6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

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

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed: No. of staffquarters:

Date of completion: Occupancy details:

						102
Months	QI	QII	Q III	QIV	QV	QVI
	_					

### 7. FINANCIAL PERFORMANCE

#### 7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Main A/c	Punjab National Bank	Sugauli, East Champaran	0859002100006775
Revolving A/c	Punjab National Bank	Sugauli, East Champaran	0859000100346611

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

	Released by ICAR		Expe	Unspent	
Item	Kharif	Rabi	Kharif	Rabi	balance as on 1 <sup>st</sup> April, 2023
Mustard		0.00		0.00	0.00

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

	Released by ICAR		Expenditure		Unspent
Item	Kharif	Rabi	Kharif	Rabi	balance as on 1 <sup>st</sup> April 2023
Pigeon pie	0.00		0.11		(-)0.11

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

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Re	curring Contingencies		·	
1	Pay & Allowances	92.16	80.75	11.41
2	Traveling allowances	1.75	0.85	
3	Contingencies			
Α	Stationary, Telephone, Postage, Electric bill and others	3.40	3.20	0.20
В	Training of Farmers			
С	Training materials (posters, charts, demonstrationetc)			
D	Training of extension functionaries			
E	Training of Rural Youth			
F	FLD other than Oilseeds & Pulses	4.50	4.15	0.35
G	OFT			
H	Soil & Water Testing Lab			
Ι	Maintenance of building			
J	Estension activities, KisanMelaetc			
	TOTAL (A)	101.81	88.95	11.96

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B. No	B. Non-Recurring Contingencies							
1	Works	-	-	-				
2	Vehicle	-	-	-				
3	Furniture & Fixture	-	-	-				
4	Equipments	-	-	-				
	TOTAL (B)	-	-	-				
C. RI	EVOLVING FUND							
	GRAND TOTAL (A+B+C)	101.81	88.95	11.96				

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year (Kind + cash)
2019	-	-	-	
2020	-	-	-	
2021	-	209235.00	120983.00	88,252.00
2022	274805.90	1013560.00	1288365.90	6,10,558.90+6,00,000.00 =12,10,558.90

# 8. Other information

# 8.1. Prevalent diseases in Crops

Name of the disease	Сгор	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
Alternaria blight	Mustard	1 <sup>st</sup> week of December	50	8-10%	Same as in affected area by spraying of Azoxystrobin 23% SC @ 1 ml/Liter of water
Blast	Paddy	2 <sup>nd</sup> week of September	100	10-12%	Same as in affected area by spraying of Hexaconazole 5% EC @ 1 ml/Liter of water
Brown spot	Paddy	2 <sup>nd</sup> week of September	100	12-15%	Same as in affected area by spraying of Propiconazole 25% EC @ 1 ml/Liter of water
False smut	Paddy	3 <sup>rd</sup> week of September	125	10-15%	Same as in affected area by spraying of Propiconazole 25% EC @ 1 ml/Liter of water
Blight	Wheat	2 <sup>nd</sup> week of December	75	8-10%	Same as in affected area by spraying of Propiconazole 25% EC @ 1 ml/Liter of water
Pokkah boeing	Sugarcane	1 <sup>st</sup> week of July	250	15-18%	Same as in affected area by spraying of Copper Oxychloride 50% WP @ 2- 2.5gram/liter of water
Red rot	Sugarcane	1 <sup>st</sup> week of July	>250	25-30%	Same as in affected area by spraying of Thiophanate Methyl 70% WP @ 1 gram/liter of water
Wilt	Sugarcane	Last week of September	>250	30-40%; in some plots 100% loss (about 50 ha)	There is no preventive measure adopted by farmers

### 8.2. Prevalent diseases in Livestock/Fishery

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

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

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

# 9.2. PPV & FR Sensitization training Programme

Date of vaccination			Registration (crop wise)		
	<b>Resource Person</b>	No. of participants	Name of	No. of	
programme			crop	registration	

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

Type of message	No. of messages	No. of farmers covered
Сгор		
Livestock		
Fishery		
Weather		
Marketing		
Awareness		
Training information		
Other		
Total		

# 9.4. KVK Portal and Mobile App

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

# 9.5 Kisan Mobile Advisory Services (KMAS)

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

# 9.6. a. Observation of Swachha Bharat Programme/Pakhwara

Date/	Activities undertaken		No. of Pa	rticipants	
Duration of		Staffs	Farmers	Others	Total
Observation					
16- 31.12.2022	Taking swachhta pledge and cleanliness, campus cleanliness, waste management at farmers field, cleanliness at outside campus, safe disposal of waste material, cleaning of office record and hand sanitization.	16	104	0	120

# b. Details of Swachhta activities with expenditure

	Activities	Number	Expenditure (in Rs.)
1.	Digitization of office records/ e-office		
2.	Basic maintenance		
3.	Sanitation and SBM		
4.	Cleaning and beautification of surrounding areas		
5.	Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste		
6.	Used water for agriculture/ horticulture application		
7.	Swachhta Awareness at local level		
8.	Swachhta Workshops		
9.	Swachhta Pledge		
10	. Display and Banner		
11	. Foster healthy competition		
12	Involvement of print and electronic media		

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13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	
14. No. of Staff members involved in the activities	
15. No of VIP/VVIPs involved in the activities	
16. Any other specific activity (in details)	
Total	11000

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# 9.7. Observation of National Science Day

Date of Observation	Activities undertaken

# 9.8. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants
Interaction with SSB personnel	19/10/2022	50

# 9.9. Agriculture Knowledge in rural school

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

Give good quality 1-2 photograph(s)

# 9.10. Details of 'Pre-Rabi Campaign' Programme

of programme	No. of Union Ministers attended the programme	No. of Hon'ble MPs (Loksabha/ Rajyasabha) participated	of State Govt. Ministers	s 1 the 1 me	Lt As ded the ded the ded the imman sistt ctor/ DM officials ort. ort. officials officia			age by Door an (Yes/No)	age by other Is (Number)			
Date of	No. of U <sub>1</sub> attended t	No. of ] (Loksabh par	No. of M	MLAs Attended the programme	Chairman ZilaPanchayat	Distt. Collector/	Bank Off	Farmers	Govt. Officials, members	Total	Coverage Darshan (	Coverage channels (

### 9.11. Details of Swachhta Hi Sewa programme organized

Sl. No.	Activity	No. of villages Involved	No. of Particip ants	No. of VIPs	Name (s) of VIP(s)
1.	Taking swachhta pledge and cleanliness, campus cleanliness, waste management at farmers field, cleanliness at outside campus, safe disposal of waste material, and hand sanitization. Total 15 activities was done.	4	875	0	Nil

# 9.12. Details of Mahila Kisan Divas programme organized

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

# 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

### 9.14. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	MNREGA	10 Lakhs	Gram Panchayat NKE
2.			
3.			

### 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	Source of funding i.e.	Present status of functioning
establishment	IMD/ICAR/Others (pl. specify)	_
02/09/2022	CRA pogramme	Functioning

# 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

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

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

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

### 11. Details of TSP

a. Achievements of physical output under TSP during 2021

SI.	Activities	Physical Achievement			
1)	Trainings	No. of Trainings/Demos	No. of beneficiaries		
a.	Farmer				
b.	Women				
c.	Rural Youths				
d.	Extension Personnel				
2)	OFT	No. of OFTs	No. of beneficiaries		
3)	FLD	No. of FLDs	No. of beneficiaries		
4)	Mobile agro- advisory to farmers	No. of advisory	No. of beneficiaries		
5)	Other activities				
a.	Participants in extension activities (No.)				
b.	Production of seed (q)				
c.	Production of Planting material (No. in lakh)				
d.	Production of Livestock strains (No. in lakh)				
e.	Production of fingerlings (No. in lakh)				
f.	Testing of Soil, water, plant, manures samples (Nos.)				
g.	Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)				
h.	No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)				

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## 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	No. per household	
	implements/ tools etc.		

# d. Location and Beneficiary Details during 2022

District	Sub- district	No. of Village	Name of village(s)		ST population bene (No.)	fitted
		covered	covered	Μ	F	Т

## 12.Details of SCSP

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

# 13. Progress report of NICRA KVK (Technology Demonstration component) during the period (Applicable for KVKs identified under NICRA)

Natural Resource Management

Name of intervention	Numbers under	No	Area		N	o of		mers	s cov tted	vered	/		Remarks
undertaken	taken	of	(ha)	SC	, ,	ST	•	Oth	ner	Tot	al		Kemarks
	taken	units		Μ	F	Μ	F	Μ	F	Μ	F	Т	

## Crop Management / Production

Name of intervention undertaken	Area (ha)		No of farmers covered / benefitted								Remarks
		S	SC ST			Ot	her		Total		
		Μ	M F M			Μ	F	Μ	F	Т	

## Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)	N		rmers cov enefitted	vered /	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)	N	No of farmers covered / benefitted							Remarks
			SC	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								
		Μ	M F M F			М	F	Μ	F	Т

#### Extension activities

Thematic area	No of activities	No of beneficiaries								
		SC ST Other Total								
		Μ	F	Μ	F	Μ	F	Μ	F	Т

Detailed report should be provided in the circulated Performa

S	l. No.	Nam	e of the Award		Conferr	ing Authority		Amour	Amount		Purpos	e			
	b) Award received by Farmers in year 2022														
S1.		of the ard	Name of the Farmer		Address	Contact No.	Aa	dhar No.	Amo	ount	Purpose	Conferring Authority			
1	Abhin Kisan Purask 2022 Rajend Prasad Centra Agricu Univer Pusa, Samas Bihar	kar- by Dr dra l d ultural rsity,	Mr. Vinay K. Pandey	Na W	ırnihar, ırkatiaganj, est namparan	7488267391	-		Rs. 5000	)/-	For facilitation of innovative farmers	DRPCAŬ, Pusa			

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

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

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

Sl. No.	Name of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Member s	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)	Rs. (Commodity-	No. of farmer	adoption

## B) Activities under IFS

Sl. No.	Component Name	No. of KVKs under the	No. of Components	Area (ha)	No. of Activities		No. of farmers benefited	
NO.	Name	Component	established	(lla)	Demo	Training	Demo	Training
1.								
2.								

				112
3.				

#### 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					
2					

#### 19. Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service

	Database prep	pared/ covered for	KVK leve	l Committee	Various activity	
Phase	Total no. of	Total no. of	Date of	Name of	conducted for farmers	
	villages	farmers	farmers formation members		conducted for farmers	
Ι						
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	Title of the Duration	Duration	No. of participants							Fund utilized for		
			S	С	S	Т	Ot	her		Tot	al	
of training	training	(in hrs.)	Μ	F	Μ	F	Μ	F	Μ	F	Т	the training (Rs.)

## 22. Information of NARI Project (if applicable)

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

Progress Information of NARI Project

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

S1.	Name of Nutri-Smart Village	Type of Nutrition Garden	Number	Area (sqm)	No. of beneficiaries
1.		Backyard/Kitchen garden			
2.		Community level			
3.	3. Terrace Garden				
4.		Vertical Garden			
	TOT	AL			

#### 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 benefi- ciaries

#### c. Value addition in Nutri-Smart village

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

#### d. Training programmes in Nutri-Smart village

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

## e. Extension activities under NARI Project

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

## 23. Activities under KSHAMTA

Number of Adopted Villages	No. of A	ctivities	No. of farmers benefited			
	Demo	Training	Demo	Training		

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

#### Krishi Kalyan Abhiyan- I/II A. Training

Name of programme	No. of programmes				No. of officials						
		S	SC ST Others Total						attended the		
		M	F	M	F	M	F	M	F	Т	programme
KKA-I											
KKA-II											

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

Name of	No. of	Т	otal quantity	No. of farmers benefited								No. of other officials			
programme	Programme	Seed (q)	Planting material (lakh)	Input (kg/ (kg) No.)		SC M	C F	ST M F		Others M F		TotalMFT		l T	(except KVK) attended the programme
KKA-I															
KKA-II															

## C. Livestock and Fishery related activities

Name of No.			Activitie	es performed			]	No. o	f far	mers	bene	efited			No. of
	No. of	No. of	No. of	Feed/	Any other (Distributio	SC		ST		Other s		Total			other officials (except
programm e	Programm e	animals vaccinate d	animals deworme d	nutrient supplement s provided (kg)	rient n of ement animals/ wided birds/	М	F	М	F	М	F	М	F	Т	KVK) attended the programm e
KKA-I															
KKA-II															

#### D. Other activities

Name of	and of			No. o	f far	mers	bene	efited	l		No. of other officials (except KVK)
	Activities	SC		ST		Others		Total			attended the programme
programme		Μ	F	М	F	Μ	F	Μ	F	Т	
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 animal inseminated			No. o		Any other, if any					
No. of villages covered		SC		ST		Others		Total			(pl. specify)
		Μ	F	М	F	Μ	F	М	F	Т	(pi. specify)

#### 25. ARYA

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

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

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

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



Krishi Vigyan Kendra, Narkatiaganj celebrated World Pulse Day-2022









Kisan Bhagidari-Prathmikata Hamari Program-2022- Chaired by Hon'ble Rajya Sabha MP Shri Satish Chara Dubey Ji



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