

KRISHI VIGYAN KENDRA KISHANGANJ (BIHAR) ANNUAL REPORT

(January to December 2022)



*Submitted to
ICAR-ATARI, Patna, (Zone-IV)*



**BIHAR AGRICULTURAL UNIVERSITY
SABOUR, BHAGALPUR**

1. GENERAL INFORMATION ABOUT THE KVK

Krishi Vigyan Kendra, Kishanganj is an innovative center of Indian Council of Agricultural Research (ICAR), Pusa, New Delhi sanctioned vide F. No. 61 /2004-AE-1 dated 05.04.2006 under the administrative control of Bihar Agricultural University, Sabour, Bhagalpur Bihar. This KVK was initially established in Thakurganj in March, 2006 in Kishanganj district of Bihar and then shifted to SMF, Kishanganj. It is a unique scheme of ICAR oriented to serve the farmers by being the fountain head of agricultural technologies at the district level. KVKs are the agricultural knowledge centers for farmers, farmwomen, rural youth and extension functionaries. The centre has the mandated activities of conducting on farm testing/trials (OFTs) with emerging advances in agricultural research for assessing, refining and demonstration of recently released technology to develop location specific sustainable production system. The organization is dedicating for organizes vocational training in agriculture and allied fields for practicing farmers, farm women and rural youth. The Kishanganj district is quite suitable for cultivation of Jute, Makhana, Pineapple, Banana, Potato, Maize, Rice and Wheat, pulses, oilseeds and vegetables crops in different seasons of the year. The productivity enhancement of the field, fiber, horticultural crops and livestock with the concept of integrated farming system module is the major area of thrust for development of agriculture in the district.

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

Name and address of KVK	Telephone		E-Mail
	Office	FAX	
Krishi Vigyan Kendra HawaiAdda Road, Near BSF Head Quarter, Khagra, Kishanganj, Bihar PIN – 855 107			kishanganjkvk@gmail.com

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

Name and address of Host Organization	Telephone		E mail
	Office	FAX	
Bihar Agricultural University Sabour, Bhagalpur-813210	0641-2452611	0641-2452611	deebausabour@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Er. Manoj Kumar Roy	Krishi Vigyan Kendra, HawaiAdda Road, Khagra, Kishanganj, 855107	7903864332	kishanganjkvk@gmail.com

1.4. Year of sanction of KVK: F. No. 6-1 /2004-AE-1 dt. 05.04.2006

1.5. Staff Position (as on 31st December 2021)

Sl. No.	Sanctioned post	Name of the Incumbent	Designation	Discipline	Pay Scale with Present Basic	Date of joining	Permanent/Temporary	Category (SC/ST/OBC/ Others)
1.	Senior Scientist& Head	Er. Manoj Kumar Roy	Senior Scientist & Head	Agricultural Engineering	Level 13(A) Basic-1,39,400/-	31/07/2007	Permanent	OBC
2.	Subject Matter Specialist	Dr. Niraj Prakash	Subject Matter Specialist	Plant Protection	Level 10 Basic- 67,000/-	07/10/2014	Permanent	OBC
3.	Subject Matter Specialist	Dr. Hemant Kr. Singh	Subject Matter Specialist	Horticulture	Level 10 Basic-67,000/-	06/01/2015	Permanent	Other
4.	Subject Matter Specialist	Vacant	Subject Matter Specialist	Soil Science	-	-	-	-
5.	Subject Matter Specialist	Vacant	Subject Matter Specialist	Animal Science	-	-	-	-
6.	Subject Matter Specialist	Vacant	Subject Matter Specialist	Agronomy	-	-	-	-
7.	Subject Matter Specialist	Vacant	Subject Matter Specialist	Home Science	-	-	-	-
8.	Programme Assistant	Md. Miraj	PA(Lab Technician)	Lab Technician	Level 06 Basic-46,200/-	30/10/2012	Permanent	OBC
9.	Computer Programmer	Anjum Hashim	PA(Computer)	Computer	Level 06 Basic-44,900/-	20/05/2013	Permanent	OBC
10.	Farm Manager	Smt. Sunita Kumari	Farm Manager	Agriculture	Level 06 Basic-44,900/-	01/03/2013	Permanent	OBC
11.	Accountant / Superintendent	Vacant	Assistant	Account				
12.	Stenographer	Sri Rakesh Mandal	Stenographer	Office	Level 04 Basic-32,300	19/06/2013	Permanent	OBC
13.	Driver	Sri Niraj Kumar Singh	Driver	Vehicle	Level 03 Basic-26,800/-	20/05/2015	Permanent	Other
14.	Driver	Vacant	Driver	Vehicle	-	-	-	-
15.	Supporting staff	Vacant	Supporting Staff	-	-	-	-	-
16.	Supporting staff	Vacant	Supporting Staff	-	-	-	-	-

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	1.5
2.	Under Demonstration Units	0.5
3.	Under Crops	5.0
4.	Orchard/Agro-forestry	1.0
5.	Others with details	2.0
	Total	10.0

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					Completed	550	Use	ICAR
2.	Farmers Hostel					Completed	350	Use	ICAR
3.	Staff Quarters (6)					PC Quarter	87	Use	ICAR
						FM Quarter	87	Use	ICAR
						TA Quarter 2 Unit	128	Use	ICAR
		Supporting Staff 2 unit							
4.	Piggery unit	--							
5	Fencing	--							
6	Rain Water harvesting structure	--							
7	Threshing floor					Yes	186	Use	ICAR
8	Farm godown	--				Yes		Use	ICAR
9.	Dairy unit	--							
10.	Poultry unit	--							
11.	Goatry unit	--							
12.	Mushroom Lab	--							
13.	Mushroom production unit	--							

14.	Shade house								
15.	Soil test Lab	--							
16	Others, Please Specify					Yes		Use	NHM,GOB

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Tractor with Tailor BR37A/4475	2004-05	334500/-	3197hrs	Repairable
Motor Cycle BR 37 J 9891	2015-16	60,000/-	10139 km	Good
Motor Cycle BR 37 J 9892	2015-16	60,000/-	9801 km	Good
Bolero BR 37 P 3460	2019-20	8,02,237/-	50057 km	Good
Tractor with Tailor(BR 37GA 6065)	2021	945221/-	487hrs	Good

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Shaker	2015 – 16	-	Working	-
Meter	2015 – 16	-	Working	-
Hot Plate	2015 – 16	-	Working	-
Solar Plate with controller & Cable	2015 – 16	-	Working	-
GPS	2015 – 16	-	Working	-
Lactometer	2015 – 16	304/-	Working	-
Digital electronic balance	2015 – 16	7000/-	Working	-
Medical Microscope	2015 – 16	7500/-	Working	-
Slim Plain Pic	2015 – 16	168/-	Working	-
Colin Glass 18 X 18mm	2015 – 16	60/-	Working	-
Wet & Dry Thermameter	2015 – 16	2160/-	Working	-
ThermoHyqometer digital	2015 – 16	720/-	Working	-
P.H. Meter	2018 – 19	6726/-	Working	BSDM
Weighing Balance 0.5 GSM	2018 – 19	4602/-	Working	BSDM
Conductivity Meter	2018 – 19	6608/-	Working	BSDM
Microprocessor based Spectrophotometer	2018 – 19	124490/-	Working	BSDM
Video Conferencing Hall				
HDX8000 HD	2014 – 15	Rs. 222823 VAT 5% Extra	Working	-

MP2 Camera	2014 – 15		Working	-
Mic	2014 – 15		Working	-
47" Panasonic LED	2014 – 15	Rs. 69565 + 13.5% VAT Extra	Working	-
Dell Monitor	2014 – 15	62839 + 5% VAT Extra	Working	-
DELL CPU	2014 – 15	132292 +5% VAT Extra	Working	-
Switch	2014 – 15	3194 +5% VAT Extra	Working	-
Wall Monted Rack	2014 – 15	4259 +13.5% VAT Extra	Working	-
Puch Code Digilik STD	2014 – 15	Rs. 426 +5% VAT Extra	Working	-
Patch Cord	2014 – 15	Rs. 213 + 5% VAT Extra	Working	-
AC	2014 – 15		Working	-
Router	2014 – 15	Rs. 22134/-	Working	-
Amron Quanta 12 v 65 Ah Battery 14 pc	2019-20	Rs 66913 +28% GST	Working	-
5 KV UPS	2021	49501/- with GST	working	-
12 v 26 AH Exide Battery	2021	39782/- with GST	14 pc working	
b. Farm machinery				
Diesel engine Pump set (4.5 H.P.) with all accessories	2008-09	19900/-	Not working	ICAR
Pump Set Electrical (2HP)	2014-15	12455/-	Working	RF
Pump Set Electrical (2HP)	2017 – 18	14495/-	Working	RF
Pump Set Electrical (1HP)	2019-20	3850/-	Working	RF
c. AV Aids				
Computer with accessories	2005-06	Supplied by univ.	Working	ICAR
Handy Camera	2009-10	16725/-	Working	ICAR
Digital Camera	2009-10	7450/-	Working	ICAR
Camera Nikon	2012-13	28450/-	Working	ICAR
LCD Projector Dell	2012-13	28280/-	Working	ICAR
Dell Laptop	2012-13	43100/-	Non-working	ICAR
Generator	2010-11	-	Working	ICAR
Printer 1536	2013 – 14	-	Working	24900
Printer Konica Minolta Biz Hub	2013 – 14	-	Working	
UPS 10KVA, Luminous	2015 – 16	-	Working	4000/-
Xerox Photocopier cum printer	2016 – 17	-	Working	99485/-
External Hard Disc Lenovo Portable head	2016 – 17	-	Working	RKVY
Dell Laptop	2016 – 17	-	Working	RKVY
Dell Desktop	2016 – 17	-	Working	RKVY
Inverter System	2016 – 17	-	Working	RKVY
Panasonic LED TV	2016 – 17	-	Working	RKVY
Sony Projector	2016 – 17	-	Working	RKVY
Aahuja Amplifier	2016 – 17	-	Working	RKVY
Aahuja Sound System	2016 – 17	-	Working	RKVY
CCTV Camera	2016 – 17	-	Working	RKVY

Handy Camera (Sony)	2016 – 17	-	Working	RKVY
Camera Canon	2016 – 17	-	Working	RKVY
Microtek UPS 16DUFUHD169470	2016 – 17	4100/-	Working	
Desktop Lenovo with 21.5 Monitor & USP Intex	2017 – 18	50,000/-	Working	BSDM
Desktop Lenovo with 21.5 Monitor & USP Intex	2017 – 18	50,000/-	Working	BSDM
P. Amplifier 12 DP	2018 – 19	10800/- Including 9%GST	Working	ICAR
Printer Canon LaserJet	2018 – 19	16000/- Including GST	Working	BSDM
Desktop Lenovo	2018 – 19	49500/- Including GST	Working	BSDM
Laptop Dell INS. 3576/821	2018 – 19	48800 with GST	Working	BSDM
Laptop HP	2021	60,000/- with GST	Working	DAMU
Epson Projector	2021	95550/- with GST	Working	RKVY
Desktop Lenovo	2021	38800/- Including GST	Working	ICAR
Ahuja WL PA AWM 700	2021	5782/ with GST	Working	ICAR
Logitech Web Camera	2021	10700/ with GST	1 pc working	RKVY
CCTV (8 chanal)	2021	16271/- with GST	08 pc	ICAR
Printer Cannon	2021	5600/-with GST	01 pc working	DAMU
Others Equipments				
Ahuja Megaphone	2015 – 16	3178/-	Working	ICAR
Water Cooler Voltas 40/80 +Water purifier Euro Aqua	2016 – 17		Working	RKVY
Usha Cooler	2016 – 17	10305/-	Working	ICAR
Vacuum Cleaner Eureka Forber trendy	2016 – 17	9950/-	Working	ICAR
Biometric Machine with steel kit	2016 – 17	30093/-	Working	ICAR
Ceiling Fan	2018 – 19	-	10 Pc Working	BAU, Sabour
Exhaust Fan	2018 – 19	-	16 Pc Working	BAU, Sabour
Nilkamal Table 3+1 Drawer	2018 – 19	46500/- Including GST	3 Pc Working	ICAR
Nilkamal Executive Table	2018 – 19	24990/- Including GST	1 Pc Working	ICAR
Nilkamal 6 Drawer Table	2018 – 19	49980/- Including GST	3 Pc Working	ICAR
Nilkamal Revolving Chair	2018 – 19	49770/- Including GST	6 Pc Working	ICAR
Nilkamal Boss Chair	2018 – 19	16699/- Including GST	1 Pc Working	ICAR
Nilkamal Runner Chair	2018 – 19	22500/- Including GST	5 Pc Working	ICAR
Godrej Monarch Sofa Set	2018 – 19	41480/- Including GST	1 Pc Working	ICAR
Godrej Storwell Plan Almirah	2018 – 19	37840/- Including GST	2 Pc Working	ICAR
Channel Gate (143 Kg)	2018 – 19	10725/-	1 Pc Working	ICAR (Building Maintenance)
Channel (29 Kg)	2018 – 19	2030/-	1 Pc Working	ICAR (Building Maintenance)
Project Screen size 8X6 Fit	2018 – 19	27990/- (Including GST)	1Pc Working	ICAR
Versha Harvester	2019-20	20338/- (Including GST)	1 PC working	BSDM

Weight machine	2019-20	11355/- (Inc. GST)	1 PC working	BSDM
Trolly Sprayer	2019-20	19491/- (Inc. GST)	1 PC working	BSDM
Chaff Cutter	2019-20	6696/- (Inc. GST)	1 PC working	BSDM
Singhal Rack	2019	29750/- (Inc. GST)	5 PC Working	ICAR
Steel Book Case	2021	44441/- (Inc. GST)	1 pc working	ICAR
Executive Chair	2021		1 pc working	ICAR
Office Desk	2021		1 pc working	ICAR
Hitachi AC	2021	1,49,500(with GST)	2 pc working	RKVY
LED smart TV	2021		01 pc working	RKVY
BSDM Gardener Equipments				
Biometric Machine (30.06.2017)	2017 – 18	-	Working	BSDM
Kudal Tata	2017 – 18	-	Working	BSDM
Kudal Power	2017 – 18	-	Working	BSDM
Khurpi	2017 – 18	-	Working	BSDM
Kulhari	2017 – 18	-	Working	BSDM
Falcon Fine Cut	2017 – 18	-	Working	BSDM
Concorde Grafting Knife	2017 – 18	-	Working	BSDM
Falcon Hedge Shear	2017 – 18	-	Working	BSDM
Water Can 10 Leter	2017 – 18	-	Working	BSDM
Falcon Khurpa 3000	2017 – 18	-	Working	BSDM
Sickle	2017 – 18	-	Working	BSDM
Spade	2017 – 18	-	Working	BSDM
Pots	2017 – 18	-	Working	BSDM
Iron Flower Stand (25.05.2017)	2017 – 18	-	Working	BSDM
Sumo Tub 15"	2017 – 18	-	Working	BSDM
Pipe 1 Roll	2017 – 18	-	Working	BSDM
Warmth Heater (13.01.2018)	2017 – 18	-	Working	BSDM
Seed Display Stand	2017 – 18	-	Working	BSDM
Sprayer	2017 – 18	-	Working	BSDM
Gumboot	2017 – 18	-	Working	BSDM
Hot air oven	2017 – 18	-	Working	BSDM

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
M.B. Plough	2004-05	SUPLIED BY UNIV.	Not Working	ICAR
Land leveler	2004-05	SUPLIED BY UNIV.	Working	ICAR
Cultivator (9 tynes)	2004-05	SUPLIED BY UNIV.	Working	ICAR
Electric Balance	2004-05	SUPLIED BY UNIV.	Working	ICAR
Stitching m/c	2004-05	SUPLIED BY UNIV.	Working	ICAR
Rotavator	2011	76806/-	Working	RKVY
Cultivator (11 tynes)	2011	19950/-	Working	RKVY
Zero Tillage (Seed drill)	2013-14	40,036/-	Working	ICAR
Thresher (maize)	2013-14	99,900/-	Working	ICAR
Power Reaper	2013-14	99,960/-	Working	ICAR
Sprinkler System	2013-14	55000/-	Working	ICAR
Rotavator	2013-14	99900/-	Working	ICAR
Maize Thresher	-	99900/-	Working	ICAR
Seed Drill (Tractor Operated)	-	40000/-	Working	ICAR
Power Sprayer	-	6000/-	Working	ICAR
Rotavator	-	99900/-	Working	ICAR
Stitching Machine	-	-	Working	BAU
Stand Fan	-	-	Working	ICAR
Electronic Balance	-	-	Repairable	ICAR
Knap Sack Sprayer	-	-	Repairable	ICAR
Hand Sprayer	-	-	Working	ICAR
Wooden Pata	-	-	Working	R/F
Pipe (600ft)	-	-	Working	R/F
Moisture box	2016-17	-	Working	BAU
Weighing Balance(Manual)	2016-17	-	Working	BAU
Plastic Packaging Machine	2017 – 18	1800/-	Working	RKVY
Paddy Threshar (Mannual)	2017 – 18	5500/-	Working	RKVY
Grain Moisture testing machine	2016 – 17		Working	RKVY
Shovel	2018 – 19	2160/-	Working	BSDM
Cultivator Fro	2018 – 19	690/-	Working	BSDM
Happy Seeder 2 Nos	2019-20	Supplied, BAU, Sabour	Working	CRAP
Tractor operated winnower fan	2020	24,573/-	Working	BSDM
New Holland Tractor 65 hp	2021	945221/- with GST	Working	CRAP
Tractor Trolley	2021	179199/-with GST	working	CRAP
Paddy Thresher	2021	174720/-with GST	Working	CRAP
Rice-Wheat seeder	2021	20000/-	working	CRAP

Multi-crop Planter	2021	88019/- with GST	Working	CRAP
Self-propelled Reaper	2021	Supplied , BAU, Sabour	Working	CRAP
Power Weeder&Ridger	2021	Supplied , BAU, Sabour	Working	CRAP
Laser Land Lever	2021	305000/- with GST	Working	CRAP
Raised Bed Planter	2021	99000/- with GST	Working	CRAP
Tractor Mounted Sprayer	2021	193520/- with GST	Working	CRAP
Falcon Ladder (30.03.2022)	2022	13749/-	Working	CRAP
KOEL Motor 1 HP (27.01.2022)	2022	3850/-	Working	CRAP
Zero Tillage 11 Row (03.01.2022)	2022	64500/-	Working	CRAP
Trolley Sprayer full set engine (26.03.2022)	2022	11500/-	Working	CRAP
Self-propelled trolley mounted sprayer (30.03.2022)	2022	61999/-	Working	CRAP
Green Seeker	2022	Received from BAU, Sabour	Working	CRAP
Box 60 x 30 (17.03.2022)	2022	9500/-	Working	CRAP
GodregStorewel Minor (31.03.2022)	2022	23420/-	Working	CRAP
Dual Band Modem	2022	3540/-	Working	CRAP
2 HP Krishlokar Electric Pump set	2022	15000/-	Working	CRAP
01 HP Krishlokar Electric Motor	2022	4250/-	Working	CRAP
CCTV Bullet Camera	2022	1500/-	Working	CRAP
Self-Propelled Vertical reaper (25.03.2022)	2022	135000/-	Working	NICRA

1.8. Details SAC meeting* conducted in the year

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	24.06.2022	34	Proceeding attached	The decisions are incorporated in action plan 2023 for execution.	

* Salient recommendation of SAC in bullet form

Attach a copy of SAC proceedings along with list of participants

The Scientific Advisory Committee meeting of KVK, Kishanganj was held on 24th June, 2022 under the Chairmanship of Dr. Anjani Kumar, Director, ATARI, Patna , Associate Director Extension Education, Bihar Agricultural University, Sabour. and Associate Dean-cum-Principal, DKAC, Kishanganj also participated in the meeting. The house approved the Action Taken on the recommendation of 11th SAC meeting by KVK, Kishanganj. Total 34 participants including officers from line department, representative of leading NGOs progressive farmers and farm women and staffs of KVK, participated in the meeting. In the meeting following recommendation were made –

1. For extension of tea cultivation in the district an action plan should be made in which necessary support can be taken from DKAC, Kishanganj and the farmers.

(Action: SS & Head/SMS, Horticulture, KVK, Kishanganj)

2. During the “International Year of Millets 2023” the demonstration of Millet crops and awareness/ training/ workshop etc should be organized.

(Action: SS & Head/concerned SMS, KVK, Kishanganj)

3. The demonstration units of Natural Farming and Organic Farming should be established at the centre.

(Action: I/C, Natural Farming / Farm Manager, KVK, Kishanganj)

4. The programmes conducted by KVK should be highlighted through website, social media, twitter, facebook etc.

(Action: Programme Assistant Computer, KVK, Kishanganj)

5. The necessary updation of agriculture information center should be made so that farmers get the new information.

(Action: I/c, Agriculture Information Center, KVK, Kishanganj)

6. Proper co-ordination with NABARD should be established for the benefit of farmers .

(Action: SS & Head, KVK, Kishanganj)

7. The effort to get the fund for short term refinement from ATMA should be made and related work should be completed in time.

(Action: SS & Head, KVK, Kishanganj)

8. The north east side of instructional farm should be fenced by bamboo.

(Action: SS & Head / Farm Manager, KVK, Kishanganj)

9. The whole area of instructional farm of KVK should be leveled in phased manner and the long term experimental plots of CRA should be strengthened as required.

(Action: SS & Head / Farm Manager, KVK, Kishanganj)

10. The estimate for minor repairing of administrative building, kisan hostel and residential quarter should be revised and the repair work should be done with the co-ordination of Executive Engineer, BPSAC, Purnea.

(Action: Executive Engineer, BPSAC, Purnea /SS & Head, KVK, Kishanganj)

11. The pond and other units (poultry & duckarry) of IFS model should be established as per standered norms with the coordination of Executive Engineer, BPSAC, Purnea and the certificate should be given only after completion of work.

(Action: Executive Engineer, BPSAC, Purnea /SS & Head, KVK, Kishanganj)

12. The approach road of instructional farm damaged by high rain should be repaired.

(Action: SS & Head, KVK, Kishanganj)

13. The charge of Assistant (accounts) should be given to Programme Assistant Computer in view of availability of very less man power at the center.

(Action: SS & Head, KVK, Kishanganj)

14. The service of locals can be taken to perform the technical programme of CRA and for this they can be paid as per norms.

(Action: SS & Head / Co-PI, CRA, KVK, Kishanganj)

15. The drivers can be given the responsibility to help in farm work.

(Action: SS & Head, KVK, Kishanganj)

16. In the light of resignation of Programme Assistant (Lab), the service of a trained person should be taken the soil testing work.

(Action: SS & Head, KVK, Kishanganj)

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

Sl. No.	Item	Information		
1	Major farming system/enterprise	<ul style="list-style-type: none"> ✓ Paddy-maize based farming system ✓ Paddy-wheat based farming system ✓ Paddy- Mustard/Potato- wheat –green gram based farming system ✓ Jute – Paddy based farming system ✓ Fruits and vegetables based farming system. ✓ Pineapple based farming system ✓ Vermicomposting production ✓ Fish Culture ✓ Mushroom production ✓ Poultry/goat farming ✓ Bee Keeping 		
2	Agro-climatic Zone	<ul style="list-style-type: none"> ✓ Zone-II (North – East Alluvial Plain) ✓ The climate is sub-tropical and humid having mean maximum and minimum temperature between 41°C and 3.52°C respectively. The average annual rainfall of the district is about 2269.49 mm. 		
3	Agro ecological situation	<ul style="list-style-type: none"> ✓ North East alluvial plain ✓ Up land sandy soil –suitable for maize, wheat, vegetables & fruits ✓ Medium sandy loam soil- wheat, maize, jute, rice, oilseeds, pulses, vegetables & fruits cultivation ✓ Low lying clay soil with flood & water logging condition suitable for paddy, boro-paddy & paira cropping ✓ Diara land of Mahananda flooded during rainy season with sandy and loamy soil-suitable for Rabi maize, wheat, oilseeds, pulses & cucurbits 		
4	Soil type	<ul style="list-style-type: none"> ✓ The soil of Kishanganj district are coarse textured, sandy loam to loam with p^H 5.8 to 7.2, low in organic carbon, available N, P₂O₅ and medium in available K₂O with deficient of micronutrients. 		
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others			
A. Cereal				
	Crops	Area (ha)	Production (MT)	Average yield (q/ha)
	Paddy	77617	221120	28.49
	Wheat	14080	16658	11.83

Maize	3033	9465	31.21
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B. Pulses

Crops	Area (ha)	Production (MT)	Average yield (q/ha)
Moong	722	801	11.09
Lentil	864	632	7.31
Kulthi	662	634	9.58
Khesari	375	371	9.89

C. Oilseeds

Crops	Area (ha)	Production (MT)	Average yield (q/ha)
Rapeseed & Mustard	1409	1122	7.96
Linseed	1696	1460	8.61
Sesame	213	185	8.69

D. Horticultural Crops

Crops	Area (ha)	Production (MT)	Average yield (q/ha)
Pineapple	2200	59202	365.00
Onion	1410	31710	220.00
Mango	836	7280	48.00
Banana	679	31867	360.00
Litchi	425	3062	67.50
Guava	250	1974	45.60
Lemon	281	2025	280.00
Papaya	48	1153	480.00

Source: Bihar economic survey 2019-20

6	Mean yearly temperature, rainfall, humidity of the district					
	Month	Rainfall (mm)	Rainy days	Temperature °C		Relative Humidity (%)
				Maximum	Minimum	
	Jan	5	2	24	13	67
	Feb	15	3	27	13	59
	Mar	11	1	39	21	45
	April	92.6	3	43	27	55
	May	404.4	16	37	27	75

	June	958.4	24	35	27	85
	July	368.8	20	32	27	87
	August	227.4	11	31	26	86
	September	369.6	19	33	26	86
	October	174.8	8	32	23	80
	November	0	0	30	18	66
	December	0	0	27	15	65
	Total	2627	107	33	23	
	Source-Statistical RRS, Agwanpur, Saharsa					
7	Production of major livestock products like milk, egg, meat etc. (Source Bihar Economy Survey 2015-16)		Milk(Lt)	1,50,000		
			Fish(MT)	7.9		
			Livestock	884364		
			Cattle – Cross breed	14190		
			Cattle-Indigenous	400426		
			Goat	415343		
			Poultry-Cross breed	48253		
			Poultry-Indigenous	633787		
			Buffalo	48606		
			Sheep	421		
			Pig	11589		

Note: Please give recent data only

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

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Kishanganj	Kishanganj	SinghiaKulamani, Majhia, Dhekabhinja, Kashipur, Fulwari, Doula, Juljuli, Maida etc.	Rice, Wheat, Maize, Banana, ginger, turmeric, other speices Jute, Potato, Fruits &Vegetables, Mustard, green gram, Mushroom, goatry, and Backyard Poultry	Unavailability of quality seeds, injudicious use of fertilizers, incidence of weeds, diseases and pests, lack of scientific knowledge of crop cultivation, Problematic soil	ICM,WM,INM, Improved seed and seed treatment, Vermiculture, Mushroom Production, Capacity Building, Value Addition, Disease management in animals
2.		Pothia	Dihalbari, Pokharia,Gilhabari, Panasi, Sarogora, Mahsool etc.			
3.		Terhagachh	Baigna, Dhadhar etc.			
4.		Kochadhaman	Purandaha, Shitalnagar, Suranag, Mehdipur, Chargharia, Alta, Sapatiya, Dogharia, etc.			
5.		Dighalbank	Kuthaili, Dahibhat, Singhimari, Satkoua, Korhobari etc.			
6.		Thakurganj	Patharia, Kukurbaghi, Baisarbat, Sakhudali, Hulhuli etc.			
7.		Bahadurganj	Bangama, Loucha, Bhouradah, Bhatabari and Maheshbathna etc.			

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
Bairgachhi (Er. Manoj Kr. Roy, SrScientist& Head)	Kishanganj	<ul style="list-style-type: none"> • OFT on Cowpea + Okra intercropping system. • Conducted FLDs on Paddy(var.- Sabour Shree) • Soil testing and soil health card distribution to farmers. • Need based training Prog for PF/R.Y. Farm Advisory services, kissanchaupal, Kissangosthi, exposure visit. and animal husbandry, swachhatapakhwara, SBM. • Participation of farmers and farm women in kvkprogrammes like world soil day, and other training cum awareness programmes.
Farsadangi/ Andhwakoul (Dr. Niraj Prakash, SMS, Ento)	Kishanganj	<ul style="list-style-type: none"> • OFT on rabi Maize • FLD on Kharif Paddy, pheromone trap against cucurbits and waste decomposer. • Training Prog for PF/R.Y, Farm Advisory services, kissanchaupal, Kissangosthi, exposure visit, swachhatapakhwara, SBM, diagnostic visit. • Participation of farmers and farm women in kvkprogrammes like Pre rabikrisaksangosthi, world soil day and other training cum awareness programme.
Kolha/Motihara Taluka/ Mahingaon/ Gilhabari (Dr Hemant Kr Singh, SMS, Horticulture)	Kishanganj	<ul style="list-style-type: none"> • Conducted FLDs on ZT wheat, RB Maized, RB Mustard, RB Wheat, Potato Planter, DSR paddy, INM paddy and wheat, water harvesting through field bunding in paddy, AWD in paddy, vegetables and fruits (Pheromon trap, Improved seed, weed management and PGR). • OFTs on Mango (PGR) • Soil testing and soil health card distribution to farmers. • Need based training Programme for PF/R.Y. Farm Advisory services, kissanchaupal, Kisangosthi, Field Days, exposure visit, swachhatapakhwara, SBM. • RAWE programme, awareness camp, group meeting etc

2.1 Priority thrust areas

S. No	Thrust area
1.	INM and IPM practices for sustainable agriculture.
2.	Management of Jute, Banana and Pineapple based cropping system.
3.	Popularization of quality seed production.
4.	Income generation activities through high value fruits crops (Dragon Fruit and Pineapple), beekeeping, mushroom production, vermi-composting, goatary, Poultry, and preservation of fruits and vegetables etc. & Farm women empowerment.
5.	Promotion and adoption of Integrated farming system in the district.
6.	Enhancement of milk production through proper management of miltch animals.

3. TECHNICAL ACHIEVEMENTS

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

OFT											FLD												
No. of technologies tested:											No. of technologies demonstrated:												
Number of OFTs			Number of farmers								Number of FLDs			Number of farmers									
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement								
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
5	4	44	0	0	0	0	36	0	36	0	0	9	6	125	1	0	1	0	51	4	53	4	57

Training												Extension activities																		
Number of Courses			Number of Participants									Number of activities			Number of participants															
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement															
			SC		ST		Others		Total						SC		ST		Others		Total									
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T							
63	72	1600	148	97	45	14	2754	502	2947	613	3560	782	774	5660	14	9	75	7	9	5	1	764	210	8	1	78	27	22	1010	3

Impact of capacity building											Impact of Extension activities												
Number of Participants trained			Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								Number of Participants attended			Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									
Target	Achievement	Target	SC		ST		Others		Total			Target	Achievement	Target	SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
			15	12	01.	-	-	-	09	03	10				02	12	20	07	-	-	-	-	04

Seed production (q)						Planting material (in Lakh)					
Target			Achievement			Target			Achievement		
248			247.5			0.10			0.08		

Livestock strains and fish fingerlings produced (in lakh)*						Soil, water, plant, manures samples tested (in lakh)					
Target			Achievement			Target			Achievement		
0			-			500			1120		

* 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	00		-	-	-	-	-
Seminar/conference/ symposia papers	00		-	-	-	-	-
Books	1	Mass	-	-	-	-	-
Bulletins	00		-	-	-	-	-
News letter	4	4000	-	-	-	-	-
Popular Articles	5	Mass	-	-	-	-	-
Book Chapter	3	Mass	-	-	-	-	-
Extension Pamphlets/ literature	2	2000	-	-	-	-	-
Technical reports	10	40	-	-	-	-	-
Electronic Publication (CD/DVD etc)	0	-	-	-	-	-	-
TOTAL	25	Mass	-	-	-	-	-

3.1.1 Achievements on technologies assessed and refined

OFT: 1 (Year – 2021)

1.	Title of On farm Trial	Management of Fall Army worm <i>Spodopterafrugiperda</i> in maize.
2.	Problem diagnosed	Fall Army worm <i>Spodopterafrugiperda</i> is the most dreaded invasive insect pest associated with maize. It causes heavy losses up to 80 percent. Some times their infestation level is so high that farmers don't get return even whatever they spend on seeds. Therefore it is needed for management of Fall Army worm.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers practice: (Whorl application of Carbofuran 3G @ 20 kg/h) TO₁-i. Application of Sand (After whorl formation and at 5 % damage symptom appearance). ii. Spraying of Emamectin benzoate 5SG @ 0.4g/l of water at 5days of application of sand iii. Spraying of Thiomethoxame 12.6 % + Lamdacyhalothrin 9.5 % @ 0.5 ml/l at 15 days after 1st spray. TO₂- i. Application of Soil (After whorl formation and at 5 % damage symptom appearance). ii. Spraying of Fipronil 5 Sc @ 1 ml/l of water at 5 days of application of Soil. iii. Spraying of Spinosad @ 0.2 ml/l at 15 days of 1st spray.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	BAU, Sabour, Bhagalpur
5.	Production system and thematic area	Rice-Maize cropping system, IPM
6.	Performance of the Technology with performance indicators	<ul style="list-style-type: none"> • Technological observations: Observation will be taken for no. of larvae/damaged leaves/no. of holes at 5 spots in each plot of 10 randomly selected, plants (Incidence %), Yield (q/ha) • Economic indicators: Cost of cultivation(Rs.), Net return (Rs.) ,B:C Ratio
7.	Final recommendation for micro level situation	Emamectin Benzoate 5SG @ 0.4 g/l and after 15 days interval another insecticide Thiomethoxame 12.6 % + Lamdacyhalothrin 9.5 % @ 0.5 ml/l used for better management of fall army worm in maize crop.
8.	Constraints identified and feedback for research	Use of Carbofuran 3G as whorl application is not suitable against fall army worm in maize.
9.	Process of farmers participation and their reaction	PRA, group discussion and training etc.

Thematic area: Integrated Pest management

Problem definition: Fall Army worm *Spodopterafrugiperda* is the most dreaded invasive insect pest associated with maize. It causes heavy losses up to 80 percent. Some times their infestation level is so high that farmers don't get return even whatever they spend on seeds. Therefore, it is needed for management of Fall Army worm.

Technology assessed: Management of Fall Army worm *Spodopterafrugiperda* in maize.

Table:

Technology option	No. of trials	Plant damage/infestation (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
Farmers practice :	10	19.8	66.96	58200	133920	75720	2.30
TO_I-	10	3.0	76.60	60900	153200	92300	2.51
TO_{II}-	10	5.3	73.31	60100	146620	86520	2.43

Results: An OFT was conducted on different farmer's field during year 2021-22(Rabi) for "Management of Fall Army worm *Spodopterafrugiperda* in maize." Result showed that fall army worm infestation (3.0%) minimum in **TO_I** (Spraying of Emamectin Benzoate 5 SG @ 0.4 g/l and after 15 days interval spraying of Thiomethoxame 12.6 % + Lambdacyhalothrin 9.5 % @ 0.5 ml/l) and also recorded higher yield (76.60 q/h) in comparison to other treatment **TO_{II}**. Net return found rupees 92300/h and BC ratio 2.51 in **TO_I**. Fall army worm infestation (19.8 %) maximum and yield (66.96/h) minimum found under farmers practice with net return rupees 75720/h and BC ratio 2.30.

From above result spraying of Emamectin Benzoate 5 SG @ 0.4 g/l and after 15 days interval spraying of Thiomethoxame 12.6 % + Lambdacyhalothrin 9.5 % @ 0.5 ml/l used for better management of Fall army worm in Maize crop.

OFT: 2 (Year – 2021)

1.	Title of the OFT	Efficacy of different combination of fungicide for controlling root and stem rot of cucurbits (Bottle gourd).
2.	Problem diagnosed	The farmers face 40 to 45 % yield losses and low profitability in Cucurbits cultivation due to root and stem rot.
3.	Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)	Farmer Practice: Spray of Mancozeb (Indofil M45) @ 3 gm/l TO₁ :Copper oxychloride @ 3 gm/L + Validamycine @ 2ml/L with soil drenching TO₂ :Kashugamycine @ 2 ml/ L + (mancozeb 63% +carbendazim 12%) @ 2 gm/L (Poison painting and spray also at 20 days interval
4.	Source of Technology (ICAR/ AICRP /SAU/ Other, please specify):	IIVR, Varansi
5.	Production system and thematic area	Vegetable Farming System and IDM
6.	Performance of the Technology with performance indicators	A. Technological observations: Disease appearance (days),Infected leaf/plant, Per cent infestation, Mortality (%), Yield (q/ha), Soil testing report B. Economical observations: Cost, Net return (Rs), B:C ratio
7.	Final recommendation for micro level situation	Copper oxy-chloride 50% @ 3 g/l + Validamycin 3% @ 2 ml/l used for better management practice for root and stem rot of cucurbits (Bottle gourd).
8.	Constraints identified and feedback for research	Use of Indofil M45 is not suitable management for root and stem rot of cucurbits (Bottle gourd).
9.	Process of farmers participation and their reaction	PRA, group discussion and training, choupal etc.

Thematic area: Integrated Disease management

Problem definition: The farmers face 40 to 45 % yield losses and low profitability in Cucurbits cultivation due to root and stem rot.

Technology assessed: Efficacy of different combination of fungicide for controlling root and stem rot of cucurbits (Bottle gourd).

Table:

Technology option	No. of trials	Disease incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
Farmer Practice - Spray of Indofil M45 @ 3 gm/L	10	32.2	150.3	70820	180360	109540	2.54
TOI- Copper oxy chloride 50% @ 3 gm/L + Velidamycine 3% @ 2ml/L with soil drenching	10	2.5	188.1	76315	225720	149405	2.96
TOII- Kashugamycine 3% @ 2 ml/l mixture of (Mancozeb 63% + Carbendazim 12%) @ 2 gm/L (Poison painting and spray also at 20 days interval)	10	5.5	174.5	75112	209400	134288	2.78

Results: An OFT was conducted on different farmers' field during year 2021-22 (Summer) on "Efficacy of different combination of fungicide for controlling root and stem rot of cucurbits (Bottle gourd)". Result showed that the root and stem rot disease incidence minimum (2.5 %) in TOI (Copper oxy chloride 50% @ 3 gm/L + Velidamycine 3% @ 2ml/L with soil drenching) with higher yield (188.1 q/h). BC ratio was 2.40 and net return obtained Rs. 149405/ha. Maximum disease incidence (32.2 %) in Farmers practice with lowest yield (150.3 q/h), BC ratio 2.54 and net return Rs 109540/ha.

Finally conclude that the application of Copper oxy chloride 50% @ 3 gm/L + Velidamycine 3% @ 2ml/l with soil drenching for better management of root and stem rot disease found economical with respect to net return of Rs. 149405/ha obtained.

OFT – 3 (Year – 2021)

1.	Title of On farm Trial	Assessment of proper doses of Paclobutrazol in mitigating irregular bearing in mango.
2.	Problem diagnosed	The farmers face the problem of alternate or irregular bearing generally signifies the tendency of mango trees to bear a heavy crop in one year (On year) and very little or no crop in the succeeding year (Off year)
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmer Practice: No use of hormones. TO₁ : Application of Paclobutrazol @ 1.0g a.i./m effective canopy (20- 30g/plant) in soil TO₂ : Application of Paclobutrazol @ 1.5g a.i./metre effective canopy (30- 45g) in soil
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-IIHR and ICAR-CIHS
5.	Production system and thematic area	Orchard management, Plant Growth Regulator
6.	Performance of the Technology with performance indicators	Technological observations: Days to 50 % flowering from treatments, No of fruit/plant, Per fruit weight (gm), Average fruit yield (kg/plant), Average fruit yield (q/ha.) Economical observations: Cost, Net return (Rs), B:C ratio
7.	Final recommendation for micro level situation	Application of cultar 30 -45 gm/plant for production in off season.
8.	Constraints identified and feedback for research	Farmers are not aware for use of hormones and methodology of hormones application in orchard.
9.	Process of farmers participation and their reaction	Training, group meeting and gosthi.

Thematic area: Plant Growth Regulator

Problem definition: The farmers face the problem of alternate or irregular bearing generally signifies the tendency of mango trees to bear a heavy crop in one year (On year) and very little or no crop in the succeeding year (Off year) Technology assessed:

Technology assessed: Assessment of proper doses of Paclobutrazol in mitigating irregular bearing in mango.

Table:

Treatments options	Days to 50 % flowering from treatments	No of fruit/plant	Per fruit weight (gm)	Average fruit yield (kg/plant)	Average fruit yield (q/ha.)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs/ha)	BC Ratio (Rs/ha)
FP : No use	147	414	227	94	93.7	42100	234250	192150	5.56
TO ₁ : Paclobutrazol @ 1.0g a.i/m	122	423	233	99	98.8	45550	247000	201450	5.42
TO ₂ : Paclobutrazol @ 1.5g a.i/m	109	512	245	126	124.2	50100	310500	260400	6.20
CD @ 5 %	8.08	42.79	18.53	12.08	-				
CV	7.86	11.65	9.65	13.92	9.55				

Results: The TO2 exhibited maximum number of fruits/tree (512) followed by TO1 (423). The fruits yield was significantly increased by both the doses of Paclobutrazol, the treatment TO2 (126 kg/tree) produced maximum fruit yield followed by TO1(99 kg/tree) and FP (94 kg/tree). The data reveal that, the highest monetary returns (Rs. 260400/- ha) and the highest (6.20) B:C ratio was recorded in the TO2: Paclobutrazol @ 1.5g a.i/m.

OFT – 4 - (Year – 2021)

1.	Title of On farm Trial	Assessment of performance of brush cutter cum weeder in maize
2.	Problem diagnosed	Inter culturing of maize is costly and strenuous
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmer Practice: Weeding by wheel hoe TO₁ : Weeding by grubber TO₂ : Weeding by brush cutter cum weeder
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	DRPCA, Pusa, Samastipur
5.	Production system and thematic area	Rice-maize and Farm Mechanization
6.	Performance of the Technology with performance indicators	Technological observations: Field capacity (ha/h), Field efficiency (%), Weeding efficiency (%) Economical observations: Cost (Rs/ha)
7.	Final recommendation for micro level situation	Brush cutter-cum- weeder can be efficiently used for inter culturing operation of maize for labour saving
8.	Constraints identified and feedback for research	Proper training of farmers is required to use the machineries
9.	Process of farmers participation and their reaction	Training, group meeting and gosthi.

Thematic area: Farm Mechanization

Problem definition: Inter culturing of maize is costly and strenuous

Technology assessed: Assessment of performance of brush cutter cum weeder in maize

Table:

Treatments options	Field Capacity (ha/h)	Weeding efficiency (%)	No of labour	Labour saving (Man h/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
Farmer Practice: Weeding by wheel hoe	0.0357	91.76	28h	-				
TO1 : Weeding by grubber	0.0268	90.45	37.3	-9.30				
TO2 : Weeding by brush cutter cum weeder	0.0555	89.14	18	10.00				

Treatments options	Field Capacity (ha/h)	Weeding efficiency (%)	Hour/ha	Labour saving (Man h/ha)	Cost of cultivation (Rs./ha)	yield (q/ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
Farmer Practice: Weeding by wheel hoe	0.0357	91.76	28	-	68500	105.3	196911	128411	2.87
TO1 : Weeding by grubber	0.0268	90.45	37.3	-9.3	69700	97.8	182886	113186	2.62
TO2 : Weeding by brush cutter cum weeder	0.0555	89.14	18	10	67300	112.6	210562	143262	3.13

Results: The weeding efficiency of Brush cutter-cum- weeder was found slightly lower (89.14%) in comparison to Grubber hoe (90.45%) and wheel hoe (91.76%) but the field capacity of Brush cutter cum weeder was highest (0.0555 ha/h) followed by wheel hoe (0.0357 ha/h) and Grubber hoe (0.0268 ha/h). In terms of labor saving 10 men hour/ha was saved in Brush cutter-cum-weeder as compare to farmers practice of wheel hoe and in case of Grubber hoe 9.30 Man hour/ha more was required than farmers practice.

OFT - 5- (Year – 2022)

1.	Title of On farm Trial	Assessment and performance of plant growth regulator for synchronized flowering in pineapple (Var-Kew)
2.	Problem diagnosed	The pineapple requires higher cost of cultivation (Rs about one lakh per acre). Traditionally farmers use imbalanced and non-judicious use of hormones due to desynchronize flowering and low yield of pineapple.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	a. TO ₁ - Application of Etherl 25 ppm (6.5 ml/100 liters of water) + 2% urea + 0.04% CaCO ₃ (sodium carbonate) b. TO ₂ - Application of NAA 10 ppm
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	Pineapple Research Station, Vazhakkulam, Kerala Agricultural University, Vellanikkara. Thrissur, Kerala
5.	Production system and thematic area	Pineapple based cropping system and Plant growth regulators
6.	Performance of the Technology with performance indicators	<p>A. Technological observations:</p> <ul style="list-style-type: none"> • Plant height (cm) • Days to flowering • Days to first fruit harvest • Yield (q/ha) • Soil testing <p>B. Economics:</p> <ul style="list-style-type: none"> • Cost (Rs/ha) • Net return (Rs/ha) • B:C ratio
7.	Final recommendation for micro level situation	Yield enhancement and off season production after using of hormones
8.	Constraints identified and feedback for research	Farmers are not aware for off season production
9.	Process of farmers participation and their reaction	Training, group meeting and gosthi.

Thematic area: Plant growth regulators

Problem definition: The pineapple requires higher cost of cultivation (Rs about one lakh per acre). Traditionally farmers use imbalanced and non-judicious use of hormones due to desynchronize flowering and low yield of pineapple.

Technology assessed: Assessment and performance of plant growth regulator for synchronized flowering in pineapple (Var-Kew)

Table:

Treatment	Replications	Flowering (Days) after treatment	Days to fruit maturity after treatment	fruit yield (q/ha)	Grass cost Rs.	Grass return Rs	Net Profit Rs	BCR
Farmers Practice: (Use of Ethrel 25 ppm)	10	48.39	144.17	381.18	252000	571770	319770	2.27
TO1: Application of 25ppm Ethephone in combination with 2 % urea and 0.04 % CaCO ₃	10	43.97	134.30	427.41	255000	641115	386115	2.51
TO2: Application of 10 ppm NAA	10	47.04	142.13	409	252800	613500	360700	2.42
SE diff.mean		3.67	10.93	31.69				
CV		9.68	9.54	9.56				

Results: An investigation was carried out at ten farmers field during 2021 in month of October by KVK, Kishanganj. To assess the effects of plant growth regulators on fruit characters and yield in pineapple cv. Kew such as regulation of synchronizing of pineapple flowering and early harvesting of fruit yield. The result showed that maximum average fruit yield of pineapple 427.41 q/ha and days to flowering after treatment 43.97 with Application of TO₁: 25ppm Ethephone in combination with 2 % urea and 0.04 % CaCO₃ then other technical options This treatment (TO₁) recorded highest BC ratio (2.51) than the other treatments.

OFT - 6 (ATMA) – (March - 22)

1.	Title of On farm Trial	Management of Fruit borer of Okra.
2.	Problem diagnosed	Loss of Okra production due to attack of fruit borer.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO₁ -Emamectin Benzoate 5% SG @0.4gm/l, 4 spraying at 15 days interval TO₂ - Indoxacarb14.5% SC@1ml/l, 4 spraying at 15 days interval
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	TNAU, Coimbatore
5.	Production system and thematic area	Vegetable based farming system and Integrated Pest management
6.	Performance of the Technology with performance indicators	<p>A. Technological observations:</p> <ul style="list-style-type: none"> • Infestation % • Yield (q/ha) <p>B. Economics:</p> <ul style="list-style-type: none"> • Cost of cultivation(Rs/ha) • Net return (Rs/ha) • B:C ratio
7.	Final recommendation for micro level situation	Indoxacarb14.5% SC@1ml/l, 4 spraying at 15 days interval used for better management practice of Okra fruit borers.
8.	Constraints identified and feedback for research	Spray of Cypermethrin 25% SC @ 2ml/l is not better management of okra fruit borer. Excess use of this is not safe for human and environment.
9.	Process of farmers participation and their reaction	Kishanchoupal, group discussion and training etc.

Thematic area: Integrated Pest management

Problem definition: Loss of Okra production due to attack of fruit borer.

Technology assessed: Management of Fruit borer of Okra.

Table:

Technology option	No. of trials	Fruit damage (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
Farmer Practice - Spray of Cypermethrin 25% SC @ 2ml/l.	10	21.2	119.2	48618	166880	118262	3.43
TOI - Emamectin Benzoate 5% SG @0.4gm/l, 4 spraying at 15days Interval.	10	4.1	152.3	51712	213220	161508	4.12
TOII - Indoxacarb14.5% SC@1ml/l, 4 spraying at 15 days interval.	10	2.1	167.8	52916	234920	182004	4.44

Results: An OFT was conducted on different farmers field during year 2021-22(Summer) on “Management of fruit borer of okra”. Result showed that in TOII (Indoxacarb14.5% SC@1ml/l,4 spraying at 15 days interval) obtained minimum fruit damage (2.1 %), maximum yield (167.8 q/h) with BC ratio 4.44 and get maximum net return i.e., 182004 Rs./h.In Farmers practice fruit damage was maximum (21.2 %), get minimum yield (119.2 q/h) with BC ratio 3.43 and net return Rs 118262 /h.

Finally conclude that use of Indoxacarb14.5% SC@1ml/l, 4 spraying at 15 daysinterval for fruit borer management of Okra is better for farmer in respect of use of - Emamectin Benzoate 5% SG @0.4gm/l, 4 spraying at 15days interval in which net return Rs. 161508 /h with BC ratio 4.12 and yield 152.3 q/h.

OFT - 7– (March - 22) (ATMA)

1.	Title of On farm Trial	Yield Maximization in ginger through management of Ginger Rhizome Rot.
2.	Problem diagnosed	Cultivation of ginger involves high risk mainly due to high incidence of rhizome rot causing losses up to 80 percent. The technologies available to manage the rhizome rot were not up to the expectations.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	a. TO₁:Farmers practice: (No use of fungicides) b. TO₂: Seed Treatment + Soil drenching with Metalaxil MZ 1gm/L. c. TO₂: Application of <i>Trichodermaharzianum</i> (2.5 kg mixed with 50 kg FYM) + Metalaxil MZ 1gm/L of water in 3 drenching at 20 days
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	UAS Dharwad
5.	Production system and thematic area	Rice-Wheat-Ginger production system and Integrated Disease management
6.	Performance of the Technology with performance indicators	A. Technological observations: <ul style="list-style-type: none"> • Rhizome germination % • Infected plant % • Disease severity % • Rhizome Yield (q/ha.) B. Economics: <ul style="list-style-type: none"> • Cost of cultivation(Rs/ha) • Net return (Rs/ha) • B:C ratio
7.	Final recommendation for micro level situation	Use of Bio pesticides for control of rhizome rot
8.	Constraints identified and feedback for research	Sevier problem of rhizome rot in Kishanganj district
9.	Process of farmers participation and their reaction	Kishanchoupal, group discussion and training etc.

Thematic area: Integrated Disease management

Problem definition: Cultivation of ginger involves high risk mainly due to high incidence of rhizome rot causing losses up to 80 percent. The technologies available to manage the rhizome rot were not up to the expectations.

Technology assessed: Yield Maximization in ginger through management of Ginger Rhizome Rot.

Table:

Technology options	No. of trials	Rhizome germination (%)	Infected plant (%)	Disease severity (0-5)	Rhizome yield (q/ha)	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	BC ratio
TO ₁ : FP	8	66.58	41.66	1	126.6	160000	316500	156500	1.98
TO ₂ : Seed treatment + soil drenching with Metalaxil MZ 1gm/l	8	72.82	27.22	2	160.45	164200	401125	236925	2.44
TO ₃ : Application of <i>T. harzianum</i> (2.5 kg mixed with 50 kg FYM) + Metalaxil MZ 1gm/l of water 3 drenching at 20 days.	8	83.24	17.68	4	182.7	166000	456750	290750	2.75

Results: An investigation was carried out at eight farmers field during 2022 in month of April by KVK, Kishanganj. To assess the Yield Maximization in ginger through management of Ginger Rhizome Rot. The result showed that maximum fruit yield of ginger 182.7 q/ with Application of TO₃: Application of *T. harzianum* (2.5 kg mixed with 50 kg FYM) + Metalaxil MZ 1gm/l of water 3 drenching at 20 days and BC ratio 2.75.

OFT - 8 (December - 22)

1.	Title of On farm Trial	Induction of regular and early flowering in Mango through <u>Paclobutrazol.</u>
2.	Problem diagnosed	The farmers face the problem of alternate or irregular bearing generally signifies the tendency of mango trees to bear a heavy crop in one year (On year) and very little or no crop in the succeeding year (Off year)
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<p>a. Farmer Practice (FP): No use of hormones.</p> <p>b. Technology option-I (TO₁) : Application of Paclobutrazol@ 1.0g a.i./m effective canopy (0.25g/plant) as soil drench during Oct-Nov</p> <p>c. Technology option-II (TO₂) : Application of Paclobutrazol @ 1.5g a.i./metre effective canopy (30- 45g) canopy diameter as soil drench during September</p>
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-IIHR and ICAR-CIHS
5.	Production system and thematic area	Medium Land Situation and Plant Growth Regulators
6.	Performance of the Technology with performance indicators	<p>A. Technological observations:</p> <ul style="list-style-type: none"> • No of fruit/plant • Advance flowering in days • Average yield (kg/tree) <p>B. Economics:</p> <ul style="list-style-type: none"> • Cost (Rs/ha) • Net return (Rs/ha) • B:C ratio
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Result Awaited

3.1.2 Technology Assessed by KVK (Discipline wise)

Sl. No.	Discipline	Thematic areas	No. of the technologies (Technology Interventions)	No. of trials	No. of Locations
1	Entomology	Integrated Disease Management	03	08	02
			03	10	01
2	Horticulture	Plant Growth Regulator	02	10	02
			03	08	01
		Integrated Pest Management	02	10	01

3.2 Achievements of Frontline Demonstrations during 2022

Category	No. of farmers	Area (ha)	
Cereal	42	13	
Oilseed	04	1.6	
Horticulture	27	15	Cucurbits, Makhana
Others	10	04	Jute
Total	83	33.6	

A. Details of FLDs conducted during the year 2022

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
2021 – 22															
1.	Mustard	Varietal	RH-725	1.60	1.60	0	0	0	0	4	0	4	0	4	
2.	Wheat	Varietal	PBW 1 Zn (Bio-fortified)	1	1	0	0	0	0	0	4	0	4	4	
3.			BHU 25 (Bio-fortified)	1	1	0	1	0	0	0	3	1	3	4	
4.			BHU 31 (Bio-fortified)	1	1	0	0	0	0	0	4	0	4	4	
2022															
5.	Jute	Varietal	JRO - 524	4	4	0	0	1	0	9	0	10	0	10	
6.	Cucurbits	IPM	Pheromon Trap	8	8	1	0	0	0	19	0	20	0	20	
7.	Makhana	Varietal	SabourMakhana - 1	7	7	0	0	0	0	5	2	5	2	7	
8.	Paddy	Farm Mechanisation	Paddy harvesting through vertical conveyer reaper	4	4	0	0	0	0	10	0	10	0	10	
9.	Buck	Varietal	Himpriya	4	4	0	0	0	0	10	0	10	0	10	

	Wheat														
10.	Wheat	Varietal	BHU - 25	1	1	0	0	0	0	5	0	5	0	5	
11.	Wheat	Varietal	BHU - 31	1	1	0	0	0	0	3	2	3	2	5	
12.	Pine apple	Weed management	Post emergence herbicide for weed control	4											
13.	Maize	IPM	Emamectin benzoate 5SG, Thiomethoxame and Lamdacyhalothrin for management of fall army worm	4	-	-	-	-	-	-	-	-	-	-	The shift of technology in 2023 due to FY 2022-23
14.	Brinjal	IPM	Emamectin Benzoate 5 SG for management of Fruit and Shoot borer	4	-	-	-	-	-	-	-	-	-	-	The shift of technology in 2023 due to FY 2022-23
15.	Mango	PGR	Use of paclobutrazole for regular bearing	1	-	-	-	-	-	-	-	-	-	-	The shift of technology in OFT
16.	Tea	IPM	Yellow Sticky Trap	8	-	-	-	-	-	-	-	-	-	-	The shift of technology in 2023 due to FY 2022-23
Natural Farming															
17.	Dragon fruit	Natural Farming	Natural Farming (Rosa)	0	1.2	0	0	0	0	3	0	3	0	3	
18.	Banana	Natural Farming	Natural Farming (Malbhog)	0	0.8	0	0	0	0	2	0	2	0	2	
19.	Capsicum	Natural Farming	Natural Farming (Indra)	0	0.4	0	0	0	0	1	0	1	0	1	
20.	Pineapple	Natural Farming	Natural Farming (Kew)	0	0.8	0	0	0	0	2	0	2	0	2	
Makhana Development Scheme															
21.	Makhana	Varietal	SabourMakhana – 1	100	100										
			Total	150.6	132.8	1	1	1	0	63	15	66	15	81	

Climate Resilient Agriculture Programme(CRAP) by External Fund

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/Demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
Rabi -2021-22															
1.	Maize	Integrated Crop	Raised bed	100	100	31	13	0	0	415	41	446	54	500	

		Management													
2.	Wheat	Integrated Crop Management	Raised bed	12	12	0	2	0	0	21	7	21	9	30	
3.	Wheat	Integrated Crop Management	Zero Tillage	12	12	4	2	0	0	16	8	20	10	30	
4.	Wheat	Integrated Crop Management	Nutrient expert	08	08	1	4	0	0	13	2	14	6	20	
5.	Mustard	Integrated Crop Management	Raised bed	08	08	2	0	0	0	17	1	19	1	20	
6.	Potato	Integrated Crop Management	Raised bed	1.2	1.2	2	0	0	0	10	0	11	0	12	
Summer 2022															
7.	Green Gram	Crop Management	Raised bed	18	18	0	0	0	0	45	0	45	0	45	
8.	Sesbania	Soil Fertility Management	Green Manuring	80	80	16	9	0	0	171	31	187	40	227	
9.	Ginger + Bitter Gourd	Commercial Vegetable Production	Intercropping (Little Champ)	6	6	6	3	0	0	19	5	25	8	33	
Kharif 2022															
10.	Paddy (SabourSampann)	RCT	DSR/Transplanted	168	168	15	8	0	0	331	66	346	74	420	
11.	Paddy (SabourSampann)	Water Management	Alternate Wetting and Drying	24	24	1	2	0	0	38	19	39	21	60	
12.	Paddy(SabourSampann)	Water Management	Water Harvesting and Field Bunding	16	16	0	0	0	0	24	14	24	14	40	
13.	Paddy (SabourSampann)	INM	INM / NE	16	16	0	0	0	0	35	5	35	5	40	
Rabi 2022-23															
14.	Wheat (HD – 2967)	Integrated Crop Management	Zero Tillage	6	6	0	1	0	0	14	0	15	0	15	
15.	Wheat (HD – 2967)	Integrated Crop Management	Raised Bed	6	6	1	0	0	0	14	0	15	0	15	
16.	Mustard	Integrated	Raised Bed	10	10	3	4	0	0	16	2	19	6	25	

	(R-Suflam)	Crop Management													
17.	Maize (VHM – 1695)	Integrated Crop Management	Raised Bed	58	58	23	10	0	0	240	17	263	27	290	
18.	Maize (VHM – 1695)	Integrated Crop Management	Pneumatic Precision Planter / Line Sowing	49	49	6	28	0	0	210	1	216	29	245	
19.	Maize (VHM – 1695)	Integrated Crop Management	Green Seeker	12	12	0	0	0	0	30	0	30	0	30	
20.	Potato (K-Khyati/ K-Pukhraj)	Integrated Crop Management	Raised Bed	1.2	1.2	01	0	0	0	09	0	10	0	10	
			Total	611.4	611.4	112	86	0	0	1688	219	1800	304	2107	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P ₂ O ₅	K ₂ O					
Result Awaited 2021-22 (Rabi)											
Mustard	Rabi	Irrigated	Sandy Loam	317.25	22.58	129.31	Paddy	22.11.2021	08 March, 2022	31	4
Wheat	Rabi	Irrigated	Sandy Loam	316.58	21.20	128.60	Paddy	09-10.12.2021	12 – 13, April, 2022	123.6	7
	Rabi	Irrigated	Sandy Loam	321.65	23.21	127.31	Paddy			123.6	7
	Rabi	Irrigated	Sandy Loam	320.26	20.48	125.32	Paddy			123.6	7
2022											
Jute	Summer	Irrigated	Sandy Loam	318.50	20.00	122.50	Mustard	15-16.04.2022	Aug, 2022	2051.6	73
Cucurbits	Summer	Irrigated	Sandy Loam	320.50	22.50	118.00	Potato	April, 2022	Aug, 2022	2051.6	73
Pine apple	Kharif	Irrigated	Sandy Loam	316.46	23.80	125.90	fallow	Feb, 2021	May 2022	2627	104
Paddy	Kharif	Irrigated	Sandy Loam	320.44	22.56	122.54	Maize	June, 2022	Nov, 2022	2099	84
Makhana	Rabi	Irrigated	Sandy Loam	316.00	19.50	122.50	Mustard	18-20.12.2022	Crop Standing		
Buck Wheat	Rabi	Irrigated	Sandy Loam	320.25	20.50	126.50	Paddy	07.08.12.2022	Crop Standing		
Wheat	Rabi	Irrigated	Sandy Loam	316.00	21.50	125.00	Paddy	8-9.12.2022	Crop Standing		

Wheat	Rabi	Irrigated	Sandy Loam	318.50	20.00	127.00	Paddy	8-9.12.2022	Crop Standing		
Natural Farming – 2022											
Dragon fruit	Rabi	Irrigated	Sandy Loam	322.00	25.00	125.00	-	Standing Crop	Crop Standing		
Banana	Kharif	Irrigated	Sandy Loam	320.00	24.00	128.00		Standing Crop	Crop Standing		
Capsicum	Rabi	Irrigated	Sandy Loam	316.00	22.00	122.00		18-19.12.2022	Crop Standing		
Pineapple	Kharif	Irrigated	Sandy Loam	320.00	20.00	123.00		Standing Crop	Crop Standing		

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

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
2021 – 22															
Mustard	Varietal	RH-725	4	1.6	7.4	6.12	20.91	18500	37370	18870	2.02	18500	30906	12406	1.67
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

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

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

** BCR= GROSS RETURN/GROSS COST

Sunflower										
Groundnut										
Soybean										
Others (Pl. specify)										
Total Oilseeds										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (Pl. specify)										
Total Pulses										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (Pl. specify)										
Total Veg. Crops										
Commercial Crops										
Cotton										
Coconut										
Others (Pl. specify)										
Total Commercial Crops										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl. specify)										
Total Fodder Crops										

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

** BCR= GROSS RETURN/GROSS COST

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demons ration	Check		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																	
Duckery																	
Others (Pl.specify)																	
Total																	

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

** BCR= GROSS RETURN/GROSS COST

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demons ration	Check		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																	

* 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

self-propelled vertical conveyer reaper	Paddy	Paddy harvesting through self-propelled vertical conveyer reaper	10	4	0.0644	0.00625	930.4	1.94	20	18.06	1950	6000	4050
-----------------------------------------	-------	------------------------------------------------------------------	----	---	--------	---------	-------	------	----	-------	------	------	------

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

** BCR= GROSS RETURN/GROSS COST

Farm Machinery

Category	Name of the implement / Equipment / Tool	Crop (if applicable)	No. of Technologies	No. of Demos	Area (ha)
Sowing and planting tools and machineries					
Total					
Intercultural operation tools and machineries					
Total					
Irrigation management tools and machineries					
Total					
Plant protection tools and machineries					
Total					
Harvesting tools and machineries					
Total					
Total mechanization tools and machineries					
Total					
Others					
Total					
Grand Total					

Climate Resilient Agricultural Programme:

Sl. No.	Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)	% Increase	*Economics of demonstration (Rs./ha)	*Economics of check
									(Rs./ha)

			demonstrated			Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rabi -2021-22																
1.	Maize	Integrated Crop Management	Raised bed	500	100	105.36	94.46	11.54	67800	197023	129223	2.91	71200	176640	105440	2.48
2.	Wheat	Integrated Crop Management	Raised bed	30	12	23.49	21.23	10.65	36720	47332	10612	1.29	38430	42778	4348	1.11
3.	Wheat	Integrated Crop Management	Zero Tillage	30	12	24.42	21.23	15.03	35610	49206	13596	1.38	38430	42778	4348	1.11
4.	Wheat	Integrated Crop Management	Nutrient expert	20	8	24.73	21.23	16.49	37240	49830	12591	1.34	38430	42778	4348	1.11
5.	Mustard	Integrated Crop Management	Raised bed	20	8	7.6	5.8	31.03	21950	38380	16430	1.75	20625	29290	8665	1.42
6.	Potato	Integrated Crop Management	Raised bed	12	1.2	240	212	13.21	168100	288120	120020	1.71	163050	254640	91590	1.56
Summer 2022																
7.	Green Gram	Crop Management	Raised bed	45	18	6.4	5.23	31.74	22500	46560	24060	2.07	24000	38048	14048	1.59
8.	Sesbania	Soil Fertility Management	Green Manuring	227	80	Green Mannuring										
9.	Ginger + Bitter Gourd	Commercial Vegetable Production	Intercropping (LitteleCahmp)	30	6	291.8	148.8	95.83	165000	968620	803620	5.87	160000	372000	212000	2.33
Kharif 2022																
10.	Paddy (SabourSampann)	RCT	DSR/Transplanted	420	168	42.8	38.5	11.17	35700	87312	51612	2.45	34800	78540	43740	2.26
11.	Paddy (SabourSampann)	Water Management	Alternate Wetting and Drying	60	24	40.6	39.4	3.05	36200	82824	46624	2.29	34800	80376	45576	2.31
12.	Paddy(Sabour Sampann)	Water Management	Water Harvesting and Field Bunding	40	16	44	38.8	13.4	35700	89760	54060	2.51	34800	79152	44352	2.27
13.	Paddy (SabourSampann)	INM	INM / NE	40	16	42	38.2	9.95	35300	85680	50380	2.43	34800	77928	43128	2.24
Rabi 2022-23																
14.	Wheat (HD – 2967)	Integrated Crop Management	Zero Tillage	15	6	Result Awaited										

Sl. No.	Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)					
						Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR		
																	15.	Wheat (HD – 2967)
16.	Mustard (R-Suflam)	Integrated Crop Management	Raised Bed	25	10													
17.	Maize (VHM – 1695)	Integrated Crop Management	Raised Bed	290	58													
18.	Maize (VHM – 1695)	Integrated Crop Management	Pneumatic Precision Planter / Line Sowing	245	49													
19.	Maize (VHM – 1695)	Integrated Crop Management	Green Seeker	30	12													
20.	Potato (K-Khyati/ K-Pukhraj)	Integrated Crop Management	Raised Bed	10	1.2													

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	04.03.2022	1	48	Scientific cultivation of mustard
		15.06.2022	1	25	Scientific cultivation of green gram
		16.11.2022	1	56	Scientific cultivation of paddy
		17.11.2022	1	56	Alternate wetting and drying of paddy
		18.11.2022	1	55	INM in paddy
		19.11.2022	1	55	DSR in paddy
		29.11.2022	1	33	Line sowing of climate resilient of paddy
2.	Farmers Training				

		03.01.2022	1	25	IPM in Maize
		20.01.2022	1	14	IPM in Mustard
		17-18.02.2022	1	26	Potato cultivation and seed production technique
		16-17.03.2022	1	25	Makhana Production Technique
		04.04.2022	1	25	Management of fruit fly in cucurbits by the use of pheromon trap
		06.06.2022	1	19	IPM and INM in paddy
		09.06.2022	1	29	Weed control in paddy
		10.06.2022	1	26	Beejamrit and Jeevamrit use in natural farming
		13-15.07.2022	1	28	Ginger bitter-gourd inter cropping cultivation.
		12.10.2022	1	42	Potato cultivation by raised bed method
		15.10.2022	1	41	Zero tillage wheat cultivation
		8-9.12.2022	1	25	Irrigation and disease management in paddy.
3.	Media coverage	Jan to Dec 2022	40	Mass	
4.	Training for extension functionaries	14-15.11.2023	1	29	IPM in rabi crop and zero tillage techniques

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

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha) 7 years	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1	Mustard Rabi 2021-22	Local (Desi)	6.25	11.67	11.25	15	R- Suflam, Pendimethyline, Azotobactor, PSB, Sulpher, Immidachloprid	100	40	9.75	7.5	8.5	-37.29	-32.35	43.33
2	Green Gram Summer 2022	Local (Desi)	2.14	7.77	6.95	12	IPM 205-7, Rhizobium, Boron, Trivum, Pendimythline	50	20	3.12	2.9	3.0	-159.0	-131.66	70
3	Mustard Rabi 2022-23	Local (Desi)	-	11.67	11.25	15	R- Suflam, Pendimethyline, Sulpher	75	30	-	-	-	-	-	

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	R- Suflam, Pendimethyline, Azotobactor, PSB, Sulpher, Immidachloprid (2021 – 22)	18482	31250	12768	1.69	20215	42500	22285	2.10
2	IPM 205-7, Rhizobium, Boron, Trivum, Pendimythline (2022)	12216	16050	3834	1.31	16165	22500	6335	1.39
3	R- Suflam, Pendimethyline, Sulpher (2022 – 23)	-	-	-	-	-	-	-	-

C. Socio-economic impact parameters 2022

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1	Mustard, R-Suflam	34000	255	50	85	-	Family Expanse	14
2	Green Gram, IPM 205 – 7	6000	90	75	30	-	Family Expanse	16
3	Mustard, R-Suflam	-	-	-	-	-	-	-

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

Sl. No.	Technologies demonstrated	Farmers' Perception parameters					
		Suitability to	Likings	Affordability	Any negative	Is Technology	Suggestions, for

	(with name)	their farming system	(Preference)		effect	acceptable to all in the group/village	change/improvement, if any
1	R- Suflam, Pendimethyline, Azotobactor, PSB, Sulpher, Immidachloprid	Yes	Farmer likes variety	70%	No	Yes	Timely sowing give better result
2	IPM 205-7, Rhizobium, Boron, Trivum, Pendimythline	Yes	Farmer likes variety	65%	After maturity picking not properly done	Yes, upto some extent	Due to weather fluctuation yield affected
3	R- Suflam, Pendimethyline, Sulpher	-	-	-	-	-	-

E. Specific Characteristics of Technology and Performance

Mustard (R. Suflam)

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
1. Plant Height	158 – 162 cm	101 – 104 (cm)	Higher yield in comparison to local seed
2. No. of Plant /m ²	26	17	
3. No. of seed / Pod	16	8	
4. Seed Wt.	6.21g/1000 seed	4.16/1000 seed	

Green gram (IPM 205-7)

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
1. Plant Height at 60 DAS	55 cm	42 cm	If weather favours then better

2. No. of branches/Plant	20	16	yield obtained
3. No. of Pods/Branch	18.10	14.12	
4. Seed Wt.	29.60g/1000 seed	23.46g/1000 seed	

F. Extension activities under CFLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training	09.02.2022 (Balua)	30
2.	Field Day	04.03.2022 (Balua)	48
3.	Training	01.04.2022 (Teghariya)	25
4.	Training	02.04.2022 (Satmery)	25
5.	Training and Field Day	15.06.2022 (Teghariya)	24
6.	Training	18.11.2022 (Kathamatha)	40
7.	Training	19.11.2022 (Barbaliya)	35
8.	Field Day	09.02.2023 (Kathamatha)	30

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





H. Farmers' training photographs



Baliya, Bihar, India
Unnamed Road, Baliya, Bihar 855101, India
Lat 26.150898°
Long 87.701142°
09/02/22 02:33 PM

GPS Map Camera



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



J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Mustard (2021-22)	i) Critical input	102075	213000	-110925
	ii) TA/DA/POL etc. for monitoring	13125	11140	1985
	iii) Extension Activities (Field Day)			
	iv) Publication of literature			
	Total	115200	224140	-108940

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Green Gram (2022)	i) Critical input	11381	161375	-149994
	ii) TA/DA/POL etc. for monitoring	42661	8205	3445
	iii) Extension Activities (Field Day)			
	iv) Publication of literature			
	Total	54042	169580	-115538

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Mustard (2022-23)	i) Critical input	51800	144000	-92200
	ii) TA/DA/POL etc. for monitoring	18000	9830	8170
	iii) Extension Activities (Field Day)			
	iv) Publication of literature			
	Total	69800	153830	-84030

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

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

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
I. Crop Production													
Weed Management	2	58	0	58	0	0	0	0	0	0	58	0	58
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management	6	371	18	389	20	10	30	0	0	0	391	28	419
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	1	80	0	80	0	0	0	0	0	0	80	0	80
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and pruning													
b) Fruits													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Bio-control of pests and diseases													
Production of bio control agents and 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													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures													

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
production														
Production of fry and fingerlings														
Production of Bee-colonies and wax sheets														
Small tools and implements														
Production of livestock feed and fodder														
Production of Fish feed														
Others, if any														
X. Capacity Building and Group Dynamics														
Leadership development														
Group dynamics	1	43	7	50	4	8	12	0	0	0	47	15	62	
Formation and Management of SHGs	1	30	0	30	0		0	0	0	0	30	0	30	
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	17	757	65	822	39	42	81	20	0	20	816	107	923	

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

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Mushroom Production														
Bee-keeping														
Integrated farming														
Seed production	1	25	0	25	0	0	0	0	0	0	25	0	25	
Production of organic inputs / Vermiculture	3	63	5	68	0	0	0	0	0	0	63	5	68	

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Integrated Farming														
Planting material production														
Vermi-culture														
Sericulture														
Protected cultivation of vegetable crops	1	25	0	25	0	0	0	0	0	0	25	0	25	
Commercial fruit production	2	51	1	52	5	0	5	0	0	0	56	1	57	
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														
Enterprise development														
Para vets														
Para extension workers														
Composite fish culture														
Freshwater prawn culture														
Shrimp farming														
Pearl culture														
Cold water fisheries														
Fish harvest and processing technology														
Fry and fingerling rearing														
Small scale processing														
Post-Harvest Technology														
Tailoring and Stitching														
Rural Crafts														
TOTAL	7	164	6	170	5	0	5	0	0	0	169	6	175	

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

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Productivity enhancement in field crops														
Value addition														
Integrated Pest Management	2	52	5	57	0	0	0	0	0	0	52	5	57	
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	2	52	5	57	0	0	0	0	0	0	52	5	57	

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

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
I. Crop Production													
Weed Management	2	54	1	55	3	0	3	0	0	0	57	1	58
Resource Conservation Technologies													
Cropping Systems	5	232	15	247	0	0	0	0	0	0	232	15	247
Crop Diversification													
Integrated Farming													
Water management													
Seed production	1	26	0	26	0	0	0	0	0	0	26	0	26
Nursery management													
Integrated Crop Management	9	373	93	466	18	7	25	0	0	0	391	100	491
Fodder production													
Production of organic inputs													
Others, (Natural Farming)	4	76	6	82	5	0	5	12	2	14	93	8	101

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management 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													
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													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
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 fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	3	57	4	61	7	3	10	0	0	0	64	7	71
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	1	25	6	31	0	0	0	0	0	0	25	6	31

Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
TOTAL	2	52	5	57	0	0	0	0	0	0	52	5	57

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agril. Engineering	PF	Vegetable seedling production in poly house	1	Off	15	0	15	8	1	15
Agril. Engineering	PF	Use of micro-irrigation system	1	Off	21	0	21	4	0	21
Agril. Engineering	PF	Land leveling by laser land leveling machine	1	Off	25	6	31	0	0	31
Agronomy	PF	Direct Seeded of paddy	1	Off	18	7	25	5	1	25
Agronomy	PF	Direct Seeded of paddy	1	Off	30	0	30	0	0	30
Agronomy	PF	Use and importance of LCC in paddy	1	Off	45	0	45	0	0	45
Agronomy	PF	Weed control in paddy	1	Off	29	1	30	0	0	30
Agronomy	PF	Beejamrit and Jeevamrit use in natural farming	1	Off	21	0	21	5	0	21
Agronomy	PF	LCC/Green Seeker based nutrient management in paddy	3	On	29	0	29	1	0	29
Agronomy	PF	Scientific cultivation of Rabi vegetables	2	On	12	0	12	3	10	12
Agronomy	PF	Irrigation and disease management in paddy.	2	On	25	0	25	0	0	25
Agronomy	PF	Use and importance of LCC in paddy	1	Off	40	0	40	0	0	40
Agronomy	PF	Zero tillage wheat cultivation	1	Off	41	0	41	0	0	41
Agronomy	PF	Water Management in maize	1	Video Conferencing	7	0	7	2	0	7
Agronomy	PF	Irrigation water management in maize	2	Off	11	4	15	3	3	15

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agronomy	PF	Scientific cultivation of summer green gram	1	Off	17	8	25	0	0	25
Agronomy	PF	Scientific cultivation of summer green gram	1	Off	18	7	25	0	0	25
Agronomy	PF	Scientific cultivation of summer green gram	1	Video Conferencing	13	2	15	0	0	15
Agronomy	PF	Scientific cultivation of green gram	1	On	24	0	24	0	0	24
Agronomy	PF	AWD in paddy cultivation	1	Off	29	0	29	0	0	29
Agronomy	PF	WH & FB in paddy cultivation	1	Off	27	4	31	0	0	31
Agronomy	PF	Weed management in paddy	1	Off	25	0	25	3	0	25
Agronomy	PF	preparation of Jeevamrit and Amrit Jal and its uses in natural farming.	1	Off	24	1	25	0	0	25
Agronomy	PF	Weed management in paddy	3	On	28	0	28	0	0	28
Agronomy	PF	Off campus training on preparation and used of "Dhanjeevamrit and KeetNiyatrak"	1	Off	19	5	24	0	0	24
Agronomy	PF	Weed management in paddy	3	On	30	0	30	0	0	30
Agronomy	PF	Nutrient management in paddy	3	On	30	0	30	0	0	30
Agronomy	PF	Irrigation in paddy with AWD method	1	Off	38	2	40	1	2	40
Agronomy	PF	Mustard cultivation by raised bed method	1	Off	43	0	43	0	0	43
Agronomy	PF	Maize cultivation by raised bed method	1	Off	43	0	43	0	0	43
Agronomy	PF	Scientific cultivation of Mustard	1	Off	27	13	40	0	0	40
Agronomy	PF	Scientific cultivation of Mustard	1	Off	27	8	35	0	0	35

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Entomology	PF	Insect management in brinjal	1	Off	21	9	30	0	0	30
Entomology	PF	Insect and disease management in paddy	1	Off	30	0	30	0	0	30
Extension	PF	Formation of Self Help Group	1	On	30	0	30	0	0	30
Horticulture	RY	Production Technology of summer vegetable	2	ON	29	0	29	1	0	29
Horticulture	PF	Seed production of potato	2	Off	26	0	26	0	0	26
Horticulture	RY	Makhana Production Technique	2	On	25	0	25	0	0	25
Horticulture	RY	Scientific cultivation of rainy season crop	2	On	22	1	23	4	0	23
Horticulture	PF	IPM in Cucurbitaceous vegetable	1	Off	21	9	30	1	0	30
Horticulture	PF	Care and maintenance of mango orchard	1	Video Conferencing	16	0	16	0	0	16
Horticulture	PF	Ginger bitter-gourd inter cropping cultivation.	3	Off	28	0	28	0	0	28
Horticulture	PF	Potato cultivation and seed production technique	2	Off	26	0	26	0	0	26
Horticulture	PF	Potato cultivation by raised bed method	1	Off	42	0	42	0	0	42
Horticulture	PF	Scientific cultivation in pointed gourd	1	On	18	0	18	0	0	18
Horticulture	RY	Nutrient management in cabbage family vegetables.	2	On	25	0	25	0	0	25
Horticulture	PF	Maize sowing by raised bed machine and INM	1	Off	34	6	40	0	0	40
Plant Protection	PF	Insect Pest Management in Potato	2	Off	17	0	17	0	0	17
Plant Protection	PF	Insect management in summer cucurbit vegetable	1	Off	25	1	26	0	0	26
Plant Protection	PF	Insect and disease management in paddy	3	On	17	2	19	7	4	19
Plant Protection	PF	Pest management in maize	1	Off	25	0	25	0	0	25

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Plant Protection	PF	Aphid management in Mustard	2	Off	25	0	25	0	0	25
Plant Protection	PF	Insect and Disease Management in mustard	1	Video Conferencing	13	0	13	1	0	13
Plant Protection	PF	Insect management in mustard	1	Off	16	14	30	0	0	30
Plant Protection	PF	Fall Arm Warm management in Maize	1	Off	25	0	25	0	0	25
Plant Protection	PF	Management of fruit fly in cucurbits by the use of pheromon trap	1	Off	25	0	25	0	0	25
Plant Protection	PF	Insect and Disease Management in green gram	2	On	19	6	25	0	0	25
Plant Protection	RY	Vermicomposting production technique	2	On	18	2	20	0	0	20
Plant Protection	PF	IPM and INM in paddy	1	Off	8	7	15	11	4	15
Plant Protection	PF	Insect management in green gram	1	Off	17	7	24	0	0	24
Plant Protection	EF	Integrated pest management of Kharif crop	1	On	25	3	28	0	0	28
Plant Protection	PF	Use and importance of dhanjeevamrit in natural farming	1	Off	12	0	12	12	2	12
Plant Protection	RY	Vermicomposting production techniques	2	On	22	3	25	0	0	25
Plant Protection	EF	IPM in rabi crop and zero tillage techniques	2	On	27	2	29	0	0	29
Plant Protection	PF	Insec management in maize	2	On	23	2	25	0	0	25
Plant Protection	PF	Aphid management in Mustard	1	Off	40	0	40	0	0	40
Plant Protection	PF	Insect management in maize	1	Off	25	0	25	0	0	25
Plant Protection	RY	Vermicomposting production technique	2	On	23	0	23	0	0	23
Agronomy	PF	Jute production tecnique	1	Off	30	5	35	0	0	35
Agronomy	PF	Jute production tecnique	1	Off	28	2	30	0	0	30

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agronomy	PF	Crop Production and Insect Management in Kharif Crop	1	On	79	30	109	25	6	109
Plant Protection	PF	IPM in kharif crop	1	Off	70	20	90	0	0	90
Plant Protection	PF	IPM in kharif crop	1	Off	75	55	130	0	0	130
Agronomy	PF	SRI in paddy	1	Off	90	30	120	0	0	120
Plant Protection	PF	Integrated Pest Management in Paddy	1	Off	39	44	83	6	6	83
Agronomy	PF	Paddy cultivation by DSR machine	1	Off	67	24	91	13	6	91
Agronomy	PF	Scientist Farmer Interaction	1	On	43	7	50	4	8	50
Agronomy	PF	Dealers training programme for nano urea as top dressing	1	On	80	0	80	0	0	80
Horticulture	PF	District level training of mushroom production	2	Off	8	22	30	17	25	30
Plant Protection	EF	District level workshop cum training	1	On	118	9	127	0	0	127
Plant Protection	PF	Block level workshop cum training	1	Off	81	0	81	17	0	81
Plant Protection	PF	Block level workshop cum training	1	Off	62	0	62	0	0	62
Horticulture	PF	PoshanAbhiyan	1	Off	103	0	103	0	0	103
Plant Protection	PF	Cultivation of Rabi maize & wheat and their disease management	1	Off	120	0	120	17	0	120
Plant Protection	PF	Insect pest management in maize and other pulse crop	2	Off	12	0	12	3	14	12
Plant Protection	PF	Training on beekeeping	3	Off	0	0	0	17	13	0
Plant Protection	PF	Training for insecticides and bio-pesticide distributors	1	Off	21	0	21	0	0	21
Total			120		2797	390	3187	191	105	3187

H) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self-employed after training			Number of persons employed else where
				Male	Female	Total	Type of	Number of units	Number of persons	

							units		employed	
Quality Seed Grower	Seed Production	Quality Seed Grower	45	20	2	22				

*training title should specify the major technology /skill transferred

D) Sponsored Training Programmes

Sl.	Title	Thematic area	Month	Duration (days)	Client PF/R/EF	No. of courses	No. of Participants									Sponsoring Agency	
							Male			Female			Total				
							Others	SC	ST	Others	SC	ST	Others	SC	ST		Total
1	Jute production technique	ICM	March	1	PF	1	30	0	0	5	0	0	35	0	0	35	Off, DAO, Kishanganj
2	Jute production technique	ICM	March	1	PF	1	28	0	0	2	0	0	30	0	0	30	Off, DAO, Kishanganj
3	Crop Production and Insect Management in Kharif Crop	Crop Production	May	1	PF	1	79	5	20	30	6	0	109	11	20	140	On, KVK, Kishanganj
4	IPM in kharif crop	IPM	May	1	PF	1	70	0	0	20	0	0	90	0	0	90	Off, Kochadhaman
5	IPM in kharif crop	IPM	May	1	PF	1	75	0	0	55	0	0	130	0	0	130	Off, Bahadurganj
6	SRI in paddy	ICM	May	1	PF	1	90	0	0	30	0	0	120	0	0	120	Off, Dighalbank
7	Integrated Pest Management in Paddy	IPM	June	1	PF	1	39	6	0	44	6	0	83	12	0	95	Off, Pothiya Block
8	Paddy cultivation by DSR machine	ICM	June	1	PF	1	67	13	0	24	6	0	91	19	0	110	Off, Terhagachh Block
9	Scientist Farmer Interaction	Group Dynamics	August	1	PF	1	43	4	0	7	8	0	50	12	0	62	On, KVK, Kishanganj
10	Dealers training programme for nano urea as top dressing	INM	August	1	PF	1	80	0	0	0	0	0	80	0	0	80	On, KVK, Kishanganj

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST	Male	Female	Total	Male	Female	Total
					(% of total)						
Exhibition organized	0	0	0	0	0	0	0	0	0	0	0
Participation in exhibition	0	0	0	0	0	0	0	0	0	0	0
Film Show	0	0	0	0	0	0	0	0	0	0	0
Method Demonstrations	4	162	60	222	22.44	31	1	193	61	254	4
Farmers Seminar	0	0	0	0	0	0	0	0	0	0	0
Workshop	7	466	181	647	8.896	5	0	471	181	652	7
Group meetings	22	109	6	115	3.252	8	0	117	6	123	22
Lectures delivered as resource persons	18	82	3	85	1.053	10	0	92	3	95	18
Advisory Services	657	610	25	635	4.885	18	2	628	27	655	657
Scientific visit to farmers field	16	59	1	60	8.571	10	0	69	1	70	16
Farmers visit to KVK	13	572	111	683	12.31	29	3	601	114	715	13
Diagnostic visits	0	0	0	0	0	0	0	0	0	0	0
Exposure visits	0	0	0	0	0	0	0	0	0	0	0
Ex-trainees Sammelan	0	0	0	0	0	0	0	0	0	0	0
Soil health Camp	15	155	0	155	0	0	0	155	0	155	15
Animal Health Camp	0	0	0	0	0	0	0	0	0	0	0
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	0	0	0	0	0	0	0	0	0	0	0
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	0	0	0	0	0	0	0	0	0	0	0
MahilaMandals Conveners meetings	0	0	0	0	0	0	0	0	0	0	0
Special day celebration	0	0	0	0	0	0	0	0	0	0	0
Sankalp Se Siddhi	8	315	68	383	10.53	14	2	329	70	399	8
Swatchta Hi Sewa	7	3875	1490	5365	0.594	367	156	4242	1646	5888	7
Celebration of important date	7	939	115	1054	2.826	40	3	979	118	1097	7
Other	0	0	0	0	0	0	0	0	0	0	0
Total	774	7344	2060	9404	3.50	532	167	7876	2227	10103	774

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	40
Radio talks	06
TV talks	00
Popular articles	04
Extension Literature	03
Electronic media	06
Animal health camp	00
Any other	00

C. Celebration of important days in KVKs

Celebration of Important Days	No. of activities	Farmers					Extension Officials			Total		
		M	F	T	total	SC/	Male	Female	Total	Male	Female	Total
					SC/ST	ST						
Republic day (26 th Jan.)	1	6	1	7	0	0.00	18	5	23	24	6	30
National Science Day (28 th Feb)	1	8	38	46	12	26.09	2	0	2	10	38	48
International Women's Day (8 th Mar.)	1	0	50	50	18	36.00	4	1	5	4	51	55
World Water Day (22 nd March)	1	25	2	27	4	14.81	0	0	0	25	2	27
World Environment Day (05 th June)	1	21	0	21	0	0.00	9	1	10	30	1	31
International Yoga Day (21 st Jun.)	1	44	2	46	0	0.00	0	0	0	44	2	46
ICAR Foundation Day (Plantation Drive) 16 th July	1	184	14	198	45	22.73	4	1	5	188	15	203
Independence Day (15 th Aug.)	1	32	12	44	2	4.55	0	0	0	32	12	44
Parthenium Awareness Week (16 th to 22 nd Aug.)	1	13	7	20	4	20.00	3	0	3	16	7	23
PoshanVatikaMahaAbhiyan& Tree Plantation (17 th Sep.)	1	25	1	26	0	0.00	0	0	0	25	1	26
Gandhi Jayanti (2 nd Oct.)	1	8	1	9	0	0.00	0	0	0	8	1	9
MahilaKisanDiwas (15 th Oct.)	1	0	25	25	2	8.00	0	0	0	0	25	25
World Food Day (16 th Oct.)	1	5	17	22	1	4.55	0	0	0	5	17	22
EktaDiwas (31 st Oct)	1	8	1	9	0	0.00	0	0	0	8	1	9
National Constitution Day (26 th Nov.)	1	8	1	9	0	0.00	0	0	0	8	1	9
World Soil Day (5 th Dec.)	1	29	19	48	45	93.75	0	3	3	29	22	51
KisanDiwas (23 rd Dec.)	1	55	0	55	1	1.82	4	1	5	59	1	60
Total	17	471	191	662	134	20.24	44	12	56	515	203	718

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

Sl.	Date of event	Name of Event/Programme	Interaction of Hon'ble PM/AM	Participants			
				Farmers	Staffs	VIP/Others	Total
1	01.01.2022	Pradhan MantariKisanSammanNidhiProgramme	Hon'ble PM direct Telecast	35	7	-	42
2	25.04.2022	Lesor Land Leveling State Level Programme (Jal JeevanHaryali)		85	8	-	93
3	26.04.2022	AzadiKaAmritMahotsav (KisanBhagidaariPrathmiktaHamari)	Hon'ble PM and AM direct Telecast	317	9	-	326

Sl.	Date of event	Name of Event/Programme	Interaction of Hon'ble PM/AM	Participants			
				Farmers	Staffs	VIP/Others	Total
4	31.05.2022	Kisan Samman Nidhi 11th Instalment Live Telecast under GaribKalyanSammelanProgramme (Shimla) PMO	Hon'ble PM and AM direct Telecast	48	10	-	58
5	17.10.2022	PM KisanSammelan-cum-KisanPathshala	Hon'ble PM direct Telecast	306	11	2	315
6	30.12.2022	Awareness - cum - KisanGosthiProgramme on Natural Farming	Interaction of Hon'ble AM	419	12	4	435

3.5 a. Production and supply of Technological products

Village seed

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

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Wheat	HD-2967	80	300000				
Mustard	R-Suflam	5.85	67000				
Potato	KufriKhyati	22.5	90000				
Paddy	SabourSampann	135.60	500000				
Makhana	SabourMakhana – 1	4.5	81000				
Maize	VMH 1695	14	13872				
Grand Total		262.45/-	1051872/-				

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
Vegetable seedlings							
Cauliflower							
Cabbage							
Tomato							
Brinjal							
Chilli							
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	Rosa	8000	320000				
Dragon fruit							
Total							

Production of Bio-Products

Name of product	Quantity	Value (Rs.)	No. of Farmers benefitted			
	Kg		SC	ST	Other	Total
Bio-fertilizers						
Bio-pesticide						
Bio-fungicide						
Bio-agents						
Others, please specify. Vermicompost	1000	6000.00				
Total	1000	6000.00				

Production of livestock materials

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

Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Hog				
Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Mixed carp				
Fish fingerlings				
Spawn				
Others (Pl. specify)				
Grand Total				

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

i) Name of Seed Hub Centre:

Name of Nodal Officer :	
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						
Summer/Spring 2021						

iii) Financial Progress

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

Item	Title	Authors name	Number	Circulation
Research paper				
1.				
Seminar/conference/ symposia papers				
1	Makhana a highly profitable venture under flood prone waterlogged areas , extended summary :International Conference on Reimagining Rainfed Agroecosystems: Challenges and Opportunities: International Conference on Reimagining Rainfed Agroecosystems: Challenges and Opportunities, 22-24.12.2022,CRIDA, Hyderabad	Hemant Kumar Singh, M. K. Roy, Amrendra Kumar and Anjani Kumar	-	-
Book/Magazine				
1	KrishakSandesh, June 2022 Vol. 28 Year -10 ISSN 2320-6950	M. K. Roy, Niraj Prakash & H. K. Singh	200	KVKs
Bulletins				
1				
News letter				
1	KrishakSamachar Jan to March, 2022	M. K. Roy, Niraj Prakash & H. K. Singh	1000	Mass
2	KrishakSamachar April to June, 2022	M. K. Roy, Niraj Prakash & H. K. Singh	1000	Mass
3	KrishakSamachar July to Sept, 2022	M. K. Roy, Niraj Prakash & H. K. Singh	1000	Mass
4	KrishakSamachar October to Dec, 2022	M. K. Roy, Niraj Prakash & H. K. Singh	1000	Mass
Popular Articles				
1	बिहारमेंचाय की खेती द्वारा रोजगार सृजन, कृषकसंदेश, कृ०वि०के०, किशनगंज, जून, 2022 अंक 28 वर्ष 2022, पी.पी. 01-02	एस.एस. सोलंकी, हेमन्तकुमार सिंह, के० के० सिंह, भोलानाथसाहा एवं अरिंदमनाग	200	KVKs
2.	मधुमक्खीपालन द्वारा कृषि उत्पादन में वृद्धि एवं इनकी फसलों की परागण में भूमिका, कृषकसंदेश, कृ०वि०के०, किशनगंज, जून, 2022 अंक 28 वर्ष 2022, पी.पी. 03-04	मो० शमीम, दिप्तीश्रीवास्तव, महेशकुमार एवं हेमन्तकुमार सिंह	200	KVKs
3.	अनानास की वैज्ञानिक खेती, कृषकसंदेश, कृ०वि०के०, किशनगंज, जून, 2022 अंक 28 वर्ष 2022, पी.पी. 10-11	कुमारी करुणा, अभय मानकर एवं मनोज कुमारराय	200	KVKs
4.	पत्तागोभी की उन्नत पीलकिस्में एवं उन की विशेषताएं कृषकसंदेश, कृ०वि०के०, किशनगंज, जून, 2022 अंक 28 वर्ष 2022, पी.पी. 12-13	एस.एस. सोलंकी, हेमन्तकुमार सिंह, भोलानाथसाहा एवं अरिंदमनाग	200	KVKs
5.	फूलगोभी की उन्नत पीलकिस्में एवं उन की विशेषताएं कृषकसंदेश, कृ०वि०के०, किशनगंज, जून, 2022 अंक 28 वर्ष 2022, पी.पी. 22-23	एस.एस. सोलंकी, मिनाक्षीकुमारी, हेमन्तकुमार सिंह एवं के. के. सिंह	200	KVKs
6.	Agro-Techniques of high value fruit crops in Bihar, Indian Horticulture Magazine, March-April-2022	Anjani Kumar, Amrendra Kumar, Pushpa Kumari and	-	-

		Hemant Kumar Singh		
Book Chapter				
1	Advances in research trends in vegetables under a changing climate : A way forward (Advances in research on vegetable production under a changing climate – Vol – II, 2023 Springer)	S. S. Solankey, Meenakshi Kumari, H. K. Singh, P.K. Ray, Sheerin Akhter, Bhola Nath Saha		
2	Impact of climate change on under exploited vegetable crops production and mitigation strategies (Advances in research on vegetable production under a changing climate – Vol – II, 2023 Springer)	H. K. Singh, S. S. Solankey, P.K. Ray, Prakash Singh, Md Shamim, R. N. Singh and Anjani Kumar		
3	Improvement of vegetables through grafting in changing climate scenario (Advances in research on vegetable production under a changing climate – Vol – II, 2023 Springer)	P.K. Ray, H. K. Singh, S. S. Solankey, R. N. Singh and Anjani Kumar		
Extension Pamphlets/ literature				
1	Makahana	Anil Kumar, Hemant Kr Singh, M. K. Roy, Pankaj Yadav	1000	KVKs
2	Prakritik Kheti	Hemant Kr. Singh, Niraj Prakash, M. K. Roy	1000	KVKs
Technical reports				
1.	Annual Action Plan 2022	KVK, Kishanganj	1	1
2.	Annual Report 2021	ATARI, Patna	1	1
3.	22 th Extension Education Council	DEE, BAU, Sabour	1	1
4.	23 th Extension Education Council	DEE, BAU, Sabour	1	1
5.	12 th SAC meeting Report	KVK, Kishanganj	1	1
6.	NICRA Report	ATARI, Patna	1	1
7.	CRAP Report	DEE, BAU, Sabour	2	2
8.	CFLD Report	ATARI, Patna	2	2
Electronic Publication (CD/DVD etc)				
TOTAL				

N.B.: Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English
(B) Details of HRD programmes undergone by KVK personnel:

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Training-cum-Exposure visit	Capacity Building Programme (Training-cum-Exposure visit on potato)	Dr. Hemant Kr Singh SMS, Horticulture	24-28.02.2022	IRRI-CIP, Karnal, Haryana
2.	Training-cum-Exposure visit	Capacity Building Programme (Training-cum-Exposure visit on potato)	Dr. Hemant Kr Singh SMS, Horticulture	19-23.06.2022	IRRI-CIP, Meghalaya
3.	Training	Identifying constraints and enhancing resilience of various farming systems to climate change and variability in NICRA villages	Er. Manoj Kumar Roy Senior Scientist & Head	24-25.07.2022	CRIDA, Hyderabad
4.	Workshop	OFT Finalization on Horticulture	Dr. Hemant Kr. Sing SMS, Horticulture	23-24.09.2022	BAU, Sabour
5.	International Conference	I.C. reimagining rain fed agroecosystems challenges	1.Er. Manoj Kumar Roy Senior Scientist & Head	22.24.12.2022	CRIDA, Hyderabad

		and opportunities	2. Dr. Hemant Kr. Sing SMS, Horticulture		
6.	National workshop on natural farming	National workshop on natural farming	Dr. Niraj Prakash SMS, Entomology	03.12.2022	RVSKVV, Gwalior
7.	Training	Training Programme on Natural Farming	Dr. Niraj Prakash SMS, Entomology	08-09.12.2022	Gurukul, Haryana
8.	Workshop	OFT Finalization on Plant Protection	Dr. Niraj Prakash SMS, Entomology	29-30.09.2022	ATARI, Patna
9.	Workshop	Natural Farming	Dr. Niraj Prakash SMS, Entomology	14.10.2022	ATARI, Patna
10.	Workshop	Special Fruit and High Value Crop (esp. Dragon Fruit)	Er. M. K. Roy, Sr. Sci. & Head Dr. Hemant Kr Singh, SMS Horticulture Dr Niraj Prakash, SMS, Entomology Smt. Sunita Kumar, Farm Manager,	07. 11.2022	KVK, Kishanganj

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

Success Story – 1

Name of farmer	Sri Anil Kumar Sah		
Address	Jamuniguri, Kanapur, Thakurganj		
Contact details (Phone, mobile, email Id)	9931928572		
Landholding (in ha.)	4.00 ha		
Name and description of the farm/enterprise	Sri Anil Kumar Sah is a progressive farmer he started helping his father in farming after passing Intermediate. His father used to cultivate paddy and maize through conventional method. Initially Sri Sah started pineapple in 2 ha area and in rest 2 ha area used to grow paddy and maize. He visits to KVK, Kishanganj regularly and got technical knowhow scientific cultivation of pineapple. After 2017 he diversified his farming with the introduction of tea in 2 ha area. In this way his net annual income increased from 3,10,720.00 to Rs. 13,52,000.00 in 2022.		
Economic impact	Impact Factor	Before 2019	In 2022
	Gross Cost	8,10,810.00	11,42,000.00
	Gross Income	11,21,530.00	24,94,000.00
	Net Return	3,10,720.00	13,52,000.00
	B:C Ratio	1.38	2.18
Social impact	Increase in income brought social recognition to him in the society.		
Environmental impact	Replacement maize and paddy with tea helps in improving the environment.		
Horizontal/ Vertical spread	Now about 08 small farmers of his area started cultivation of tea in place of maize and paddy		



Monitoring of pineapple by farmer



Tea garden visit by KVK scientist

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

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology
1.	Spawn (Oyster) production of Mushroom through Indigenous technique.	Sri. Jitendra Kumar Gupta	He uses locally available materials to produce mushroom spawn instead of well-equipped laboratory. He uses pressure cooker in place of autoclave for sterilization of wheat grain, rectangular 8 feet x 4 feet closed plastic compartment having net on upper and bottom surface to sterilize the environment instead of laminar flow. The innoculation process is performed in front of spirit lamp. The laboratory area is sterilized by spraying 1% solution of NaOH.



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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Bitter gourd	Heat treatment of bitter gourd seed by putting under soil near chulha	To control fungal disease and break the dormancy of seed
2.	Goatry	Use of banana sucker	To control of diarrhea and bloat
3.	Poultry	Mouse trap made of bambbo, tube and rope	To control mouse in poultry house and field

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.	Dragon fruit	8.0	500-600 q	15	Yes



आधुनिक तकनीक से खेती करना लाभदायक

उत्कृष्टता (निर संवादता)। इतने अलग-अलग हो तो मौसम भी बदल चुकती है। कुछ ऐसा ही जवाब है भारतीय स्टेट बैंक से बीआरएस लेने के बाद उत्कृष्टता बार्ड नंबर दो निवासी सुषे कुण्ड एवं उनके पुत्र ईश्वरी कुण्ड, जो कि साइबर, ईश्वरी कुण्ड को नौकरी को छोड़कर आधुनिक तकनीक से खेती कर खुद का आय बढ़ाने के साथ-साथ दूसरों के लिए मिशन साइन हो रहे हैं।

सुषे कुण्ड एवं ईश्वरी कुण्ड ने बार्ड एक्टिविटी में ड्रिप फ्रूट की खेती की शुरुआत की है। इन्होंने ड्रिप फ्रूट के साथ-साथ सहकर्मियों के खेती भी की है। ड्रिप फ्रूट के कृषि साधन के बीच में बचे जहाँ पर यह सहकर्मियों खेती के लिए पर ध्यान, उत्साह, मदद एवं समर्थन को ही लगाया गया है।

उन्होंने बताया कि खेती को कुछ नया रूप से करने का लक्ष्य शुरू 4000 पीछे की बार्ड एक्टिविटी पर फिलर एवं मार्गदर्शक सेंट के से ही था। इसी क्रम में दिसम्बर से 212 नए का बैंगन एवं 400 ड्रिप फ्रूट की खेती भी नए के आगे पर 2400 पीछे बौरजरा 212 नए का बैंगन एवं 400 ड्रिप फ्रूट है।

पीछा खुशाल नए का उत्साह को लगाया है। बैंगन एवं उत्साह के एक्टिविटी पीछे की एक्टिविटी में मंग कर लगाया गया है। पीछे की डेढ़ाई पांच से छह फीट तक की है। एक्टिविटी पीछा में मदद एक्टिविटी होना है, जबकि उसके साथ में सब्जी के पीछे को एक्टिविटी कर दिया जाता है। बैंगन एवं उत्साह का उत्पादन अधिक होने से चुनाव करने का यह एक्टिविटी एक्टिविटी किसानों को प्रेरणा देता है।

बहुते खेती का पीछे की निरूप, उत्साह पर डेट पर कर एवं नैनूना लगा कर उससे भी अच्छा उत्पादन लेने का प्रयास किया गया है। निरूप के लिए डिप एक्टिविटी को व्यवस्था की गई है। इनके साथ एक्टिविटी इसके के खेती के लिए प्रेरणा देता है।

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		

Identification of courses for farmers/farm women

- a) PRA family survey, group discussion, visual observation, mass contact method and innovative farmer's experience. Total number of PRA survey (3)
- b) Entry level behaviors of the learners.
- c) Farm advisory service

In-service personnel

- a) Sharing of field experiences.
- b) Getting the feedback from the extension functionaries working at grass root level and devising the course priority basis.

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

Sl. No	Name of Equipment	Qty	Sl. No	Name of Equipment	Qty
1.	Shaker	1	2.	Wash Bottle (500ml)	1
3.	Meter	1	4.	Wash Bottle (250ml)	1
5.	Hot Plate	1	6.	Tissue Paper	2

7.	Sieve Small	2	8.	Bottle Brush	1
9.	Sieve Big	1	10.	Test Tube Brush	1
11.	Solar Plate with controller & Cable	1	12.	Syringe 10ml	2
13.	Manual	1	14.	Syringe 5ml	2
15.	Funnel	20	16.	Measuring Cylinder Glass (25ml)	1
17.	Breaker	20	18.	Test Tube Stand	2
19.	Test Tube graduated 50ml	40	20.	Safety Glass (Google)	1
21.	Glass Test Tube (50ml)	20	22.	Training CD	1
23.	Spoon (Small)	1	24.	Software for Soil Health Card CD	1
25.	Spoon (Big)	1	26.	Distillation Unit glass single stage 4 Ltr	1
27.	Stirring Rod (Plastic)	2	28.	Soil Testing Kit	1
29.	Stirring Rod (Glass)	2	30.	Extra Reagent Kit	1
31.	Beaker Glass 100ml	4	32.	Hot Air Oven	1
33.	Graduated Measuring Cylinder Glass (10ml)	1	34.	Distillation Unit glass single stage 4 Ltr	1
35.	Graduated Measuring Cylinder Glass (50ml)	1	36.	Laptop Dell INS. 3576/821	1
37.	Marker Pen 4 Colors	4	38.	P.H. Meter	1
39.	Note Pad	1	40.	Weighing Balance 0.5 GSM	1
41.	Pen	1	42.	Conductivity Meter	1
43.	Cloth	1	44.	Microprocessor based Spectrophotometer	1
45.	Gloves	1	46.	Reagent Brown Bottle Glass (125ml)	2
47.	Weighing Balance	1			



3.11.b. Details of samples analyzed so far:

Number of soil samples analyzed		
Through mini soil testing kit/labs	Through soil testing laboratory	Total
1120	0	1120

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

Sl.	Analysis	No. of Samples analyzed	No. of Villages	No. of Farmers	Amount realized (Rs.)
1.	Soil	1120	06	1120	67200
2.	Water				
3.	Plant				
4.	Fertilizers				
5.	Manures				
6.	Food				
7.	Others (if any)				

3.11.d. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1	1	51	1	DAO, Kishanganj	50	50

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

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

3.13. Technology week celebration

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

3.14. RAWE/ FETprogramme - is KVK involved? (Y/N) Yes

No of student trained	No of days stayed
Batch – 1 27 (DKAC), 1 LPU, 1 Integral University, 1 - BHU (Total – 30)	38
Batch – 2 18 (DKAC)	-

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
24.06.2022	Dr. Anjani Kumar, Director, ATARI, Patna	SAC, Meeting
16.08. 2022	DR. R. P. Singh, VC, SKRAU, Bikaner, Rajasthan	Visit of KVK
09.11.2022	Dr. G. Karunakaran, Principal Scientist, ICAR-IIHR, Bengaluru	Training-cum-Workshop on Dragon fruit
09.11.2022	Dr. P.K. Pankaj, PS, ICAR-CRIDA, Hyderabad	NICRA, Village & KVK visit

4. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Modern Dairy Management	810	41	24500 (Yearly)	32000(Yearly)
Artificial Insemination	101	48	25300 (Yearly)	68200 (Yearly)
Mushroom production	440	18	8500 (Yearly)	12600(Yearly)
Banana (G-9) Tissue Culture	260	68	40000 (Yearly)	70000 (Yearly)
HYV of late sown wheat (HD 2985)	210	23	26000/ha	35000/ha
HYV of Mustard (R-Suflam)	1512	41	8500/ha	14500/ha
HYV of Jute(JRO 204)	325	49	13000/ha	19500/ha
Vermicompost	312	22	20000 (Yearly)	60000 (Yearly)
Beekeeping	140	18	15000 (Yearly)	1,30,000 (Yearly)
Twisting Technique of Guava	190	35	24000 (Yearly)	2,04,000 (Yearly)
use of PGR in Pineapple	1202	68	60000 (Yearly)	2,22,500 (Yearly)

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
Pineapple cultivation	15000 (ha)
Use of combined harvester	11 (no.) – 14000 (ha)
Boro paddy	2200 ha
Seed treatment	1250 ha.
Twisting Technique of Guava for crop regulation	120 ha
Organic Dragon Fruit Cultivation	8.5 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 of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms
1.	CFLD (Oilseed)	About 28 percent farmers adopted the oilseed production after the demonstration of variety RajendraSuflam since 2016-17.	Increasing agricultural production and productivity through dissemination of appropriate resource and location specific agricultural technologies.
2.	Nutritional Garden	Nutritional Security About 26 percent of tribal and rural women farmers growing and habited for the nutritional garden in backyard space round the year after training and demonstration under this project and awareness, training on importance of nutritional value for human being.	Enhancement of livelihood and nutritional security of tribal communities and other rural women of family through agro-enterprise diversification.

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms
3.	Dragon fruit	Entrepreneurship development Dragon fruit cultivation in Kishanganj district of Bihar was introduced in 2014 from 100 plants. Now in present time about 08 ha area covered in the district and also supply of planting materials through KVK and farmers fields for others district of Bihar and West Bengal. KVK developed the cultivation of Dragon fruit and disseminated the technology through training, demonstration and use of ICT	Enhancing of commercial fruit production in Horticulture sector and introduce the exotic fruit crops in Bihar.
4	Guava Cultivation	Twisting Technique of Guava Guava cultivation in Kishanganj district with set of a technology twisting technique of guava for off season production and get more income. About 04-acre area with 400 plants transplanted by farmers during 2014. Now in present time about 100 ha area cover with technology by rural youth farmers in Kishanganj district. KVK Kishanganj also disseminating the technology since 2016 after validation at KVK farm.	Validation and adaptation of technology for off season production and high yielding of guava.

4.4. Details of innovations recorded by the KVK

Case – 1

Thematic area	Spawn Production
Name of the Innovation	Spawn (Oyester) production of Mushroom through Indigenous technique.
Details of Innovator	Mr. Jitendra Kumar Gupta, At- MastanChowk, Thakurganj, Kishanganj
Back ground of innovation	Mr. Jitendra Kumar Gupta, after getting training and technical support from KVK, Kishanganj started oyster mushroom production in 2008. He started mushroom cultivation with 200 bags and then increased the number of bags up to 600 in a batch. During mushroom cultivation, he was facing the problem of availability of spawn locally. He observed the spawn production critically and he used locally available materials to follow the spawn production technique in 2014. As of now he produces about 70 kg spawn per day from his laboratory with an input cost of Rs. 70-75/kg spawn.
Technology details	He uses locally available materials to produce mushroom spawn instead of well-equipped laboratory. He uses pressure cooker in place of autoclave for sterilization of wheat grain, rectangular 8 feet x 4 feet closed plastic compartment having net on upper and bottom surface to sterilize the environment instead of laminar flow. The inoculation process is performed in front of sprit lamp. The laboratory area is sterilizing by spraying 1% solution of NaOH.
Practical utility of innovation	Mushroom cultivation is being practiced by many farmwomen either in isolation or in a group in the state. The availability of spawn in rural areas is still a problem. Such indigenous technology which does

	not require costly equipment to setup the laboratory, can be established in rural areas to cater the demand of spawn.
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4.5. Details of entrepreneurship development

Case – 1

Entrepreneurship development			
Name of the enterprise	Makhana Cultivation		
Name & complete address of the entrepreneur	Sri Kshameshwar Mandal, At- Shital Nagar, Block-Kochadhaman, Kishanganj		
Role of KVK with quantitative data support:	Since 2016 KVK, Kishanganj is providing technical support to him in respect of Scientific Cultivation of Makhana. In 2020 he was provided with improved seed of Makhana i.e. SabourMakhana- 1, under Makhana Development Scheme, which has high yield and more popping percentage then local seed.		
Timeline of the entrepreneurship development	Sri Mandal was involved in rearing fish in the low laying area of public and private land since 1992. He started cultivation of Makhana in 2004 with local variety of Makhana in his low laying area of 4 ha. Now from 2016 he is getting technical support and assistance from KVK, Kishanganj for scientific cultivation of Makhana. He also exposed to the marketing of Makhana through various platforms.		
Technical Components of the Enterprise	Makhana cultivation in low laying area and introduction of improved seed of Makhana		
Status of entrepreneur before and after the enterprise	Before Adoption		
	Component	Area (acre)	
	Paddy	4	
	Fisheries	5	
	Total		351380
	After Adoption		
	Component	Area (acre)	
	Paddy	4	
	Makhana	10	
	Fisheries	5	
Total		1134552	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	The scope of Makhana Cultivation is very high as there are lots of low laying pockets in his block. He is familiar in fish farming and there is enough labour available for Makhana farming and fish cultivation. The Market of the produce is also available. Under Makhana Development Scheme the farmers are provided with improved seed and are being linked to processing marketing facilities.		
Horizontal spread of enterprise	Many farmers of nearby villages started Mkhana Cultivation in low laying areas, which were not in use earlier and area under Makhana cultivation in the area is about 50 ha.		

Case – 2

Entrepreneurship development	
Name of the enterprise	Guava Cultivation and Nursery
Name & complete address of the entrepreneur	Md. Mojibur Rahman, Vill- Singhia, SinghiaKulamani, Block- Kishanganj, Distt- Kishanganj
Role of KVK with quantitative data support:	Training and time to time technical support on guava cultivation through twisting technique
Timeline of the entrepreneurship development	Md. Mojibur Rahman started guava cultivation in 0.5 acre of land in 2018. Along with fruit production he also established a Guava Nursery.
Technical Components of the Enterprise	Guava cultivation with twisting technique to regulate the crop and Guava Nursery
Status of entrepreneur before and after the enterprise	Before 2017, Md. Mojibur Rahman was cultivating maize and paddy in his 1.5 acre of land and his annual income was approximate Rs. 36,000/-. He started guava cultivation in his 0.5 acres of land in 2017. Encouraged with the return he established a small nursery of Guava. Presently his annual income increased up to Rs. 155000/- from the new 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):	Due to many farmers cultivating Guava in the area there is a good demand of Guava plants in the area. Labours are also available in the area and the produce can be sold in nearby markets at reasonable price.
Horizontal spread of enterprise	In Kishanganj block guava cultivation area has increased up to about 200 acres.

Case – 3

Entrepreneurship development	
Name of the enterprise	Dragon Fruit Cultivation
Name & complete address of the entrepreneur	Jamini Krishna, Ward no. 02, Block Road, Thakurganj
Role of KVK with quantitative data support:	KVK has been providing technical support in respect of scientific cultivation of Dragon Fruit. In 2022 a demonstration on natural farming of dragon fruit is being demonstrated on his field.
Timeline of the entrepreneurship development	He closely watched the success of Sri NagrajNakhat in Dragon Fruit cultivation in Thakurganj. During Covid period he was at home and decided to cultivate Dragon Fruit. He established Dragon Fruit orchard from 1.0 acre in 2020. He gathered lots of information about Dragon Fruit from KVK

	and other institute and is practicing good package of practices for Dragon Fruit cultivation. He increased the no of pillars from 1.0 to 2.5 acre in 2022.		
Technical Components of the Enterprise	Good package and practices for Dragon Fruit cultivation.		
Status of entrepreneur before and after the enterprise	Before Adoption		
	Component	Area (acre)	Net Return (Rs.)
	Tea	2.0	70560.00
	Total		70560.00
	After Adoption		
	Component	Area (acre)	Net Return (Rs.)
	Tea	2.0	70560.00
	Dragon fruit	2.5	45000.00
Total		520560.00	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	The scope of Dragon fruit Cultivation is very high as there are lots of opportunity in kishanganj district. There is plenty of labour available in the district and no issue of marketing at present.		
Horizontal spread of enterprise	Many youths are interested after receiving training programme by KVK and provision for subsidy made by Govt. of Bihar.70 farmers were provided 100 plant each of dragon fruit from ATMA, Kishanganj under new initiative activitiesprogramme.		

4.6. Any other initiative taken by the KVK

- ✓ Popularization of Dragon fruit, a high value crop, cultivation in the district.
- ✓ Popularization and demonstration of intercropping of Ginger with Bitter Gourd.
- ✓ Popularization of twisting technique of Guava for Off-season production for higher income.
- ✓ Awareness and sensitization programme against Wheat blast diseases in border area with BSF collaboration.
- ✓ Sowing of wheat, maize, paddy, mustard and potato through RCT under CRA Programme.

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Line department	<ul style="list-style-type: none"> • Providing funds for infrastructure development. • Inviting for meetings, workshops, exhibitions, Scientist-farmers interactions in districts. • Formulation of different programmes on various enterprises of farmers conducting bimonthly workshops, diagnostic surveys. • Linkages with trainees for providing subsidy through line department • Jointly organizing Animal Health Camp, Special Programme and others.
ATMA	<ul style="list-style-type: none"> • The staff of the KVK was involved in preparation of SREP. • Serving as resource person for training programme to the Extension Personnel of the line departments. • Participation in Pre-rabi and Pre-kharifmahostav as well as farmers fair in the district. • Financial support for conducting the training and refinement of technologies on farmers field.
IFFCO	<ul style="list-style-type: none"> • Training programme related to fertilizers application and uses for farmers
NABARD	<ul style="list-style-type: none"> • Providing technical support for NABARD project in Kishanganj • Formation of FPOs and Kisan Clubs in collaboration with NABARD
JEEVIKA	<ul style="list-style-type: none"> • Organizing joint group meetings of farmers and creation of SHGs groups. • Financial supports for farmers in KVK adopted villages.
NGOs	<ul style="list-style-type: none"> • Working with Many NGOs like Pradan, Rahat, Going to School and Nomi Network for developments of entrepreneurship and self-employment of rural youth. • Providing skill development training for NGOs groups and demonstration of technology in operation area.
BSF, SHQ, and BSF , Kishanganj	<ul style="list-style-type: none"> • Establishment of Nutri-garden at BSF, Sector HQ under NARI project • Awareness and sensitization programme against Wheat blast diseases in border area with BSF collaboration • To provide training programme for SSB linked farmers in border area of Kishanganj.
Doordarshan, Patna, AIR, Purnea	Broadcasting

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.)
CRA Programme	Demonstration of CRA technology	2022-23	Govt. of Bihar	56,85,301.00
MDS	Training	2022-23	Govt. of Bihar	4,38,641.00

Natural Farming	Awareness and demonstration Programme	2022-23	Govt. of India	2,67,800.00
NICRA	Demonstration and awareness of climate resilient technology	2022-23	Govt. of India	9,00,800.00
RKVY Drone	Demonstration and awareness of Drone technology	2022-23	Govt. of India	17,50,000.00
KBPH	Mela	2022-23	Govt. of India	93398.00
PM kisanSammanSamelan	Participation of farmers at IARI, New delhi	2022-23	Govt. of India	16082.00
NIMA	DFI- Network project	2022-23	Govt. of India	17500.00
Makhana Development Scheme	Seed production & Training	2022-23	Govt. of Bihar	172000.00
Workshop	Dragon fruit	2022-23	BAU, Sabour	33620.00
Training	Dragon fruit	2022-23	ATMA, Samastipur	123750.00
Training	Dragon fruit	2022-23	ATMA, Madhepura	105225.00

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq.mt)	Details of production			Amount (Rs.)		Remarks
				Variety/ breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Vermicompost	2016	4 pit	<i>A Foetida</i>	Vermicompost	10.00 qt	4500	6000	
2.	Azolla Unit	2019	2 Pit	<i>A.pinnata</i>	Azolla				-
3.	Waste Decomposer	2019	2 tank	-	-				-
4	NADEP	2019	2 tank						-
5	Nutri-garden	2020	180	<i>Seasonal vegetables</i>	<i>Vegetables</i>				-

6.2.Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Rem.
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Wheat	01 to 07.12.2021	15.04.2022	4.0	HD 2967	C/S	80.0	115526	280000	
Mustard	13.11.2021	03.03.2022	1.0	R. Suflam	TFL	5.85	12500	67275	
Potato	15.11.2021	04.03.2022	0.1	KufriKhyati	CS	22.50	15000	90000	
Makhana	19.01.2021	29.09.2022	0.7	SabourMakhana – 1	TFL	4.50	18000	81000	

Maize	19.11.2021	09.05.2022	0.5	VMH 1896	Hybrid	14.0	10000	13872	
Paddy	09.06.2022	11.11.2022	4.0	SabourSampann	C/S	135.6	132037	320000	
Mustard	30.11.2022	-	0.4	RH 725	TFL	Crop is standing in the field	-	-	
Wheat	27.11.2022 to 03.12.2022	-	4.0	HD 2967	C/S		-	-	
Potato	22.11.2022	-	0.10	UC Map/ Bari Aloo/ KufriPokhraj	TFL		-	-	
Maize	24.11.2022	-	0.10	VMH 1896	Hybrid		-	-	
Buck – Wheat	29.11.2022	-	0.1	Hempriya	TFL				

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

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

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

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

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
March, 2022(BSDM Training)	22	30	
May – June 2022 (RAWES Student)	25	60	
Total :	47	90	

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters have been completed: Yes

No. of staffquarters: 4

Date of completion: June – 2014

Occupancy details:

Months	Q I (PC)	QII (FM)	Q III (TA)	QIV (TA)	Q V	QVI
Jan	Y	Y	Y	Y	-	-
Feb	Y	Y	Y	Y	-	-
March	Y	Y	Y	Y	-	-
April	Y	Y	Y	Y	-	-
May	Y	Y	Y	Y	-	-
June	Y	Y	Y	Y	-	-
July	Y	Y	Y	Y	-	-
Aug	Y	Y	Y	Y	-	-
Sep	Y	Y	Y	Y	-	-
Oct	Y	Y	Y	Y	-	-
Nov	Y	Y	Y	Y	-	-
Dec	Y	Y	Y	Y	-	-

7. FINANCIAL PERFORMANCE

7.1.Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Krishi Vigyan Kendra, (CA)	State Bank of India	Gandhi Chowk, Kishanganj	11715398178
ProgrammeCordinator (Saving)	State Bank of India	Gandhi Chowk, Kishanganj	11715399727

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

Item	Released by ICAR		Expenditure		Unspent balance as on -
	Kharif	Rabi	Kharif	Rabi	
Mustard		64,800.00		1,53,830.00	-89,030.00

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2022
	Kharif	Summer	Kharif	Summer	
Green Gram		39600		168691	-129091/-

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

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	Rs 93,66,197.00	Rs 93,66,197.00	Rs 82,21,984.00
2	Traveling allowances	Rs 1,00,000.00	Rs 1,00,000.00	Rs 96,426.00
3	Contingencies			
A	ICAR-HRD	Rs 15,000.00	Rs 15,000.00	Rs 0.00
B	ICAR-Office Contingency	Rs 2,25,000.00	Rs 3,00,058.00	-Rs 75,058
C	ICAR-Training	Rs 4,25,000.00	Rs 3,04,627.00	Rs 1,20,373.00
D	ICAR-FLD			
E	ICAR-OFT			
F	ICAR-MOB			
G	ICAR-Extension Activity			
H				
TOTAL (A)		Rs 10,131,197.00	Rs 10,131,197.00	Rs 83,63,725.00
B. Non-Recurring Contingencies				
1				
2				
3				
4				
TOTAL (B)		Rs 0.00	Rs 0.00	Rs 0.00
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		Rs 10,131,197.00	Rs 10,131,197.00	Rs 83,63,725.00

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2019-20	12,16,799.06	6,62,168.00	6,12,363.00	12,66,604.56
2020-21	12,66,596.06	5,95,301.00	3,48,078.00	15,13,819.56
2021-22	15,13,819.06	31,12,648.00	4,70,092.00	41,56,374.56
2022-23 (Upto 31 – Dec – 2022)	41,56,374.06	10,02,963.00	5,65,142.00	45,94,195.56

7.6. (i) Number of SHGs formed by KVKs

(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities

(iii) Details of marketing channels created for the SHGs

Five farmers' clubs were formed by KVK in adopted village with help of NABARD, Kishanganj

- 1) Pragatishil KVK Krishak Club, Teussa
- 2) Navjyoti KVK Krishak Club, Dheksara
- 3) Jai Kisan KVK Krishak Club, Balubari
- 4) HaritKranti KVK Krishak Club, Phulvari
- 5) Sri Krishna KVK Krishak Club, Khar-Khari

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	Both
Rabi Abhiyan	07	Rabi	Line department	ATMA, Kishanganj	Both
KarifAbhiyaan	07	Kharif	Line department	ATMA, Kishanganj	Both
KisanChoupal	07	Rabi	Line department	ATMA, Kishanganj	Both
World Soil Day	01	Rabi	Line department	ATMA, Kishanganj	Both
Farmers Scientist interaction	02	Rabi	Line department	ATMA, Kishanganj	Both

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
Late blight	Potato	January	18	25-30	Application of Ridomil Gold MZ 68 WG @2.5 g./lt water with interval of 7 to 8 days,
Aphid	Mustard	Jan-Feb	15	18-20	Application of Imidachlopid 17.8 % SL, @ 2ml/3lt water with interval of one week.
Fall Army Worm	Maize	December	11500	04-09	Application of Emamectin benzoate 5 SG @ 0.4 g/l of water

8.2. Prevalent diseases in Livestock/Fishery

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

9.1. Nehru YuvaKendra(NYK) Training

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

9.2. PPV & FR Sensitization training Programme

Date of vaccinationprogramme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration

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

Type of message

No. of messages

No. of farmers covered

Crop

Livestock

Fishery
Weather
Marketing
Awareness
Training information
Other
Total

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	1500
2.	No. of farmers registered in the portal	5000
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/ Duration of Observation	Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
13.05.2022	Swachh Bharat Abhiyan	5	25	1	31
24.05.2022	Swachhta Special Cmapign 2.0	5	18	1	24
12- 14.08.2022	Swachhta Special Cmapign 2.0	6	7	0	13
01.10.2022	Swachhta Special Cmapign 2.0	10	0	0	10
11.10.2022	Swachhta Special Cmapign 2.0	10	0	0	10
12.10.2022	Swachhta Special Cmapign 2.0	10	0	0	10
13.10.2022	Swachhta Special Cmapign 2.0	10	0	0	10
19.10.2022	Swachhta Special Cmapign 2.0	10	0	0	10
25.10.2022	Swachhta Special Cmapign 2.0	10	0	0	10
27.10.2022	Swachhta Special Cmapign 2.0 (Swachtaawarenesprogramme) PM KisanSammanSammelan	10	0	0	10
29.10.2022	Swachhta Special Cmapign 2.0	10	0	0	10

	(Orientation of school)				
17.10.2022	Swachhta Special Cmapign 2.0 (Cleaning of village)	10	290	6	306
17.10.2022	Swachhta Special Cmapign 2.0 (Microbial)	6	74	2	82
12.10.2022	Swachhta Special Cmapign 2.0 (Swachtaawarennesprogramme)	10	0	0	10
14.10.2022	Swachhta Special Cmapign 2.0 (Swachtaawarennesprogramme)	2	28	0	30
18.10.2022	Swachhta Special Cmapign 2.0 (Swachtaawarennesprogramme)	3	14	0	17
21.10.2022	Swachhta Special Cmapign 2.0 (Swachtaawarennesprogramme)	4	70	3	77
22.10.2022	Swachhta Special Cmapign 2.0 (Swachtaawarennesprogramme)	5	71	1	80
24.10.2022	Swachh Bharat Abhiyan	5	65	0	70
28.10.2022	Swachhta Special Cmapign 2.0	5	45	0	50
		146	707	14	870

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	-	-
2. Basic maintenance	5	
3. Sanitation and SBM	12	
4. Cleaning and beautification of surrounding areas	8	
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	0	
6. Used water for agriculture/ horticulture application	0	
7. Swachhta Awareness at local level	3	
8. Swachhta Workshops	5	
9. Swachhta Pledge	2	
10. Display and Banner	6	
11. Foster healthy competition	1	
12. Involvement of print and electronic media	2	
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	870	
14. No. of Staff members involved in the activities	10	
15. No of VIP/VVIPs involved in the activities	0	
16. Any other specific activity (in details)	0	
Total	924	

9.7. Observation of National Science Day

Date of Observation	Activities undertaken

9.8. Programme with SeemaSurakshaBal/ BSF

Title of Programme	Date	No. of participants
Training on vermicomposting technique	26-27.12.2022	28

9.9. Agriculture Knowledge in rural school

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

Give good quality 1-2 photograph(s)

9.10. Details of 'Pre-Rabi Campaign' Programme

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

9.11. Details of Swachhta Hi Sewaprogramme organized

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

9.12. Details of MahilaKisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Awareness Programme on MahilaKisanDiwas	1	25	0	0

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1.	Sri NagrajNakhat	9431291680, 9006265380 Near Jain Mandir, Block-Thakurganj, PO-Thakurganj, District- Kishanganj, Bihar-855116	Introduced Dragon Fruit Cultivation
2.	Md. RafiqueAlam	8757538916 Village- Singhia, Panchayat- Singhia, Kulamani, Block- Kishanganj, Bihar	Crop regulation of Guava with Twisting Technique
3.	Mr. JoshepHembram	7679086933 Village –Panasi, Block-Pothia, Kishanganj	Bee keeping with preparation of local bee box
4.	Sri Dulaljeet Singh	8521212102 Vill: Gillabari, Panchayat: Phala, Block-Pothiya, PO- Pothiya, District- Kishanganj, Bihar- 855107	Homemade medicine from banana sucker for goat bloat
5.	Sri Jitendra Kumar Gupta	At- MastanChowk, Thakurganj, Kishanganj	Mushroom spawn production through indigenous technique
6.	Md. Muzaffar Kamal Saba	At- Alta, Block- Kochadhaman	Fish farming through Bio-flock technique
7.	Sri Ravi Anand	At- Bhavrahadah, Block- Bahadurganj	Integrated Farming System
8.	Md. AkilSamsi	At- Gachhpara, Block- Kishanganj	Goatry and Poultry farming
9.	Md. Kamrul Jama	At- Sapatia, Sundarbari, Block- Kochadhaman	Makhana cultivation
10.	Sri Kshmeshwar Mandal	At- Sital Nagar, Block- Kochadhaman	Makhana Cultivation

9.14. Revenue generation

Sl. No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Bank Interest (RF)	75577.00	
2.	RAWE Programme	6000.00	Integral University, Lucknow
Total		81577.00	-

9.15. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1	Soil Testing	Soil Health Card	FLD, OFT, CRAP, CFLD and others	717000.00	-
2	Training Hall	Engage of training during sponsored programme	Sponsored Programme	24000.00	-
3	Farmer's Hostel	Accommodation of training during sponsored programme	Sponsored Programme	38736.00	-
4	Institutional Charge	Institutional Charge	ATMA, Madhepura and Samastipur	20816.00	-
5	Seed Production	Quality seed	Makhana, Potato, Paddy, Wheat, Mustard Seed	208447.00	

6	Plating Material	Dragon Fruit Planting Material	Dragon Fruit Planting Material	18080.00	-
			Total	1027079	

9.16. Performance of Automatic Weather Station in KVK

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

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

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

b.	Production of seed (q)	
c.	Production of Planting material (No. in lakh)	
d.	Production of Livestock strains (No. in lakh)	
e.	Production of fingerlings (No. in lakh)	
f.	Testing of Soil, water, plant, manures samples (Nos.)	
g.	Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)	
h.	No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	

b. Fund received under TSP in 2022-23 (Rs. In lakh):

c. Achievements of physical outcome under TSP during 2022

Sl. No.	Description	Unit	Achievements
1	Change in family income	%	
2	Change in family consumption level	%	
3	Change in availability of agricultural implements/ tools etc.	No. per household	

d. Location and Beneficiary Details during 2022

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

12.Details of SCSP

Sl.	Activities	Physical Achievement	
		No. of Trainings/Demos	No. of beneficiaries
1)	Trainings		
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.)		

Capacity building

Thematic area	No of Courses	No of beneficiaries				Other		Total		
		SC		ST		M	F	M	F	T
		M	F	M	F					
Crop Management	1	0	0	15	2	8	0	23	2	25
Crop Management	1	0	0	13	8	6	0	19	8	27
Poultry Management	1	0	0	8	25	4	0	12	25	37
INM	1	0	0	9	12	5	0	14	12	26
Weed Management	1	0	0	13	6	5	0	18	6	24
IPM	1	0	0	17	2	7	0	24	2	26
Disease Management	1	0	0	13	2	9	0	22	2	24
Total	7	0	0	88	57	44	0	132	57	189

Extension activities

Thematic area	No of Courses	No of beneficiaries				Other		Total		
		SC		ST		M	F	M	F	T
		M	F	M	F					
Workshop-cum-Training	1	12	0	48	28	26	14	86	42	128
Farmer's Scientist Interaction	3	8	0	36	12	10	6	54	18	72
Mobile Agro Advisory	35	45	6	122	22	78	14	245	42	287
Field Visit	28	18	3	76	18	24	4	118	28	146
Total	67	83	9	282	80	138	38	503	130	633

Detailed report should be provided in the circulated Performa

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

Sl. No.	Name of the Award	Conferring Authority	Amount	Purpose
1	Best Language Film – Hindi	MANAGE Agri Film Festival – 2022	-	Dragon fruit cultivation documentary
2	Certificate of Honor	ATARI, Patna	-	Crop diversification

b) Award received by Farmers in year 2022

Sl.	Name of the Award	Name of the Farmer	Address	Contact No.	Aadhar No.	Amount	Purpose	Conferring Authority
1	Progressive farmer award	Muzaffer Kamal Saba	Vill- Altahat, Block – Kochadhaman	9485466707	594663570175	-	Fisheries	BAU, Sabour

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

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

Sl. No.	Name of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
1	JANHIT FED FARMER PRODUCER CO. LTD.	CIN : U01110BR2021PTC052566 Dt: 25.06.2021	25.06.2021	Support in Input supply, Market linkage and	Vegetables	400	1.25	

				capacity building				
2	LAXMI POOJA ANARAS FARMERS PRODUCER CO. LTD	10AAECL3696GIZM Dt. 26.06.2021	26.06.2021	Post Harvest Processing and Marketing	Pineapple	125	4.86	

17. Integrated Farming System (IFS)



A) Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year

B) Activities under IFS

Sl. No.	Component Name	No. of KVKs under the Component	No. of Components established	Area (ha)	No. of Activities		No. of farmers benefited	
					Demo	Training	Demo	Training
1.								
2.								
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	Twisting of guava for high returns	<ul style="list-style-type: none"> Select the plant of guava aged 3-4 years old and in full flush. Annual pruning and training of trees to maintain the canopy. Twisting of erect branches to 5-6 feet height and get numerous emergence of flowers from every leaf nodes of twig. Seven months after massage (twisting) of branches fruits are harvested twice in a year 	250000.00	85	 

C. Livestock and Fishery related activities

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

D. Other activities

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

Krishi Kalyan Abhiyan- III

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

25. ARYA

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

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

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)



Training on Bihar Entrepreneurship Association on enterprise development



Training with SeemaSuraksha Bal to the youth of border area on vermicomposting.



OFT on plant growth regulator for synchronized flowering in pineapple



Use of leaf color chart in paddy



Inauguration of awareness programme on Natural farming by Hon'ble State Ag. Minister GOI.



Plantation by Hon'ble State Ag. Minister GOI.



Exposure visit of farmers to KVK, Purnea farm



Workshop on dragon fruit cultivation for the farmers of Koshi Zone.



Natural Farming demonstration unit at KVK, Kishanganj.



Demonstration of natural farming and organic farming at KVK, Kishanganj



NICRA workshop in the village.



Visit of NICRA review team in NICRA village
