ANNUAL REPORT
2023

DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY, BIHAR
PUSA, SAMASTIPUR - 848125 ATARI, Zone-IV

KRISHI VIGYAN KENDRA HARIHARPUR, VAISHALI

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DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY, PUSA

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Senior Scientist & Head

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3. Mr. Ravi Kumar, Stenographer

Publisher:
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Sr. Scientist & Head
KVK, Vaishali

PROFORMA FOR ANNUAL REPORT 2023 (01st January- 31st December 2023)

1. GENERAL INFORMATION ABOUT THE KVK

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, Hariharpur, Vaishali via Rajauli, Vaishali- 844102	6287797172	FAX NO	**head.kvk.vaishali@rpcau.ac.in** **www.vaishali.kvk4.in**

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	
Dr. Rajendra Prasad Central Agricultural University, Bihar, Pusa, Samastipur- 848125	06274 -240226	06274-240226	dee@rpcau.ac.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Sunita Kushwah	KVK,Hajipur	6287797172	**head.kvk.vaishali@rpcau.ac.in**

1.4. Year of sanction of KVK: 1997, 4-17/AE Dated 27.03.97

1.5. Year of start of KVK:-1997

1.5. Staff Position (**as on 31st December 2023**)

Sl. No.	Sanctioned post	Name of the Incumbent	Designation	Discipline	Pay Scale with Present Basic		Date of joining	Permanent/ probation	Category (SC/ST/ OBC/ Others)
1.	Senior Scientist& Head	Dr. Sunita Kushwah	Senior Scientist & Head	Horticulture	9000/-	143400/-	02.07.2019	Permanent	Other
2.	Subject Matter Specialist	Mr. Prem Prakash Gautam	Subject- Matter Specialist	Plant Protection	5400/-	63300/-	07.03.2019	Permanent	SC
3.	Subject Matter Specialist	Mrs. Kumari Namrata	Subject- Matter Specialist	Agriculture Engineering	5400/-	57800/-	05.03.2022	Probation	Other
4.	Subject Matter Specialist	Miss. Kavita Verma	Subject- Matter Specialist	Home Science	5400/-	57800/-	07.03.2022	Probation	OBC
5.	Subject Matter Specialist	Miss. Sripriya Das	Subject- Matter Specialist	Crop Production	5400/-	57800/-	16.03.2022	Probation	OBC
6.	Subject Matter Specialist	Vacant	-	-	5400/-	-	-	-	-
7.	Subject Matter Specialist	Vacant	-	-	5400/-	-	-	-	-
8.	Programme Assistant	Vacant	-	-	4200/-		-	-	-
9.	Computer Programmer	Vacant	-	-	4200/-		-	-	-
10.	Farm Manager	Vacant	-	-	4200/-		-	-	-
11.	Accountant / Superintendent	Mrs. Richa Srivastava	Assistant	M.Sc.	4200/-	42300/-	23.10.2017	Permanent	Other
12.	Stenographer	Mr. Ravi Kumar	Stenographer – III	B.Sc.	2400/-	29600/-	23.02.2018	Permanent	Other
13.	Driver	Mr. Sonu Kumar	Jeep Driver	Inter	2000/-	23800/-	01.03.2021	Permanent	Other
14.	Driver	Vacant	Tractor Driver	-	2000/-	-	-	-	-
15.	Supporting staff	Mr. Ramakant	Skilled supporting staff	B.A	1800/-	19000/-	03.03.2021	Permanent	Other
16.	Supporting staff	Mr. Ravi Ranjan	Skilled supporting staff	Intermediate	1800/-	19000/-	13.04.2022	Permanent	Other

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)	Name of infrastructure
1	Under Buildings	0.14	Administrative Building, Goraul Farm &Hariharpur Farm
2.	Under Demonstration Units	0.5	Vermicompost Unit, Poly House, IFS Unit, Seed Hub, Mushroom Unit, Green Shade Net ,Azzola Unit & Threshing Floor
3.	Under Crops	3.44	Demonstration unit area also included
4.	Orchard	4.52	Mango trees & Banana Plant
5.	Agro-forestry	0	Nil
6.	Others with details	1.44	Road & Pond
	Total	**10.04**	

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)	Functional/ non-functional*	Source of funding
1.	Administrative Building	-	-	-	-	Completed	550 Sqm	Under use	ICAR
2.	Farmers Hostel	-	-	-	-	Completed	300 Sqm	Under use	ICAR
3.	Staff Quarters (6)	-	-	-	-	Completed	380 Sqm	Under Use	ICAR
4.	Piggery unit	-	-	-	-	-		-	-
5	Fencing	-	-	-	-	Completed	-	-	-
6	Rain Water harvesting structure	-	-	-	-	-		-	-
7	Threshing floor					Completed	500 Sqm	Under use	ICAR
8	Farm godown	-	-	-	-	Completed	170 Sqm	Under use	ICAR
9.	Dairy unit	-	-	-	-	Completed	10 Sqm	Under Use	R/F
10.	Poultry unit	-	-	-	-	completed	221Sqm	Under use	ARYA & RF
11.	Goatry unit	-	-	-	-	-		-	-
12.	Mushroom Lab	-	-	-	-	Completed	63 Sqm	Under use	ARYA
13.	Mushroom production unit	-	-	-	-	Completed	10.8 Sqm	Under use	ARYA
14.	Shade house	-	-	-	-	Completed	80 Sqm	Under use	ICAR
15.	Soil test Lab	-	-	-	-	Completed	70 Sqm	Under use	ICAR
16	Others, Please Specify								
	Polyhouse	-	-	-	-	Completed	600 Sqm	Under use	ICAR
	Quail Unit	-	-	-	-	Completed	1.62 Sqm	Under use	ARYA

	Azolla Unit (2)	-	-	-	-	Completed	4.32 Sqm	Under use	ICAR
	Vermi compost	-	-	-	-	Completed	45 Sqm	Under use	GOB
	Beekeeping Unit	-	-	-	-	Completed	10 Sqm	Under use	ICAR
	Nutritional Garden	-	-	-	-	Completed	125 Sqm	Under use	SCSP
	Medicinal Garden	-	-	-	-	Completed	1000 Sqm	Under use	ARYA

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
MahindraMarshal (BR31B 1080)	06.05.2003	417598.77	369102(09.09.19)	Condem on 10.06.2020
Tractor (BR01GA 2896)	2009	4,05,000	2102 hrs(31.12.23)	Not functional
Tractor John Deere (New)(BR31GB 2244)	2019	6,26,743.84	1386 Hrs	Functional
Tractor New Holland(BR31GB8210)	24.06.2021	9,96,151.52	596 hrs	Functional
Motorcycle 1 (BR31Q 7048)	29.08.2016	59090	38086	Functional
Motorcycle 2 (BR31Q 7049)	29.08.2016	59090	36830	Functional

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Water distillation	2005	54240	Working	ICAR
Physical Balance Chemical Balance	2005 2005	110740 8990	Not working	ICAR
Conductivity meter	2006	10170	Out of order	ICAR
Digital pH meter	2006	10170	Condemned	ICAR
Spectrophoto meter	2006	61020	Condemned	ICAR
Flame Photo meter	2006	47460	Need repair	ICAR
Hot Plate	2006	9040	Working	ICAR
Hot Air oven	2006	15255	Working	ICAR
Shaker	2006	25425	Working	ICAR
Kjheladhl (digital &Distillation System)	2006	27000	Condemned	ICAR
Willey mill Grinder	2006	25425	Condemned	ICAR
Photo Phonies Phil Meteor cover head Projector (twin lamp.)	2003	11172	Condemned	ICAR
Eutech PH miter	2018	24993	Working	ICAR
Laminar Air Flow (1)	2021	71982	Working	ARYA
BOD Incubator (1)	2021	46816	Working	ARYA
Spirt Lamp (2)	2021	1187.2	Working	ARYA
Temperature Meter	2022	33500	Working	ARYA
Egg Incubator	2022	42990	Working	ARYA
Digital Grain Moisture Meter	2022	37524	Working	SCSP
Digital Conductivity Meter	2022	29677	Working	SCSP
Micro Oven	2022	21990	Working	SCSP
Refractor Meter	2022	2583	Working	SCSP

Micro Scope	2022	14900	Working	ARYA
Autoclave Machine	2022	24000	Working	ARYA
Compound Micro Scope	2023	14900	Working	ARYA
Lab Table	2023	24800	Working	ARYA
Commercial Mixture	2023	22499	Working	ARYA
Dental Electronic Weight Machine	2023	2466	Working	ARYA
Endo Gun	2023	33160	Working	ARYA
Fire Extinguishers	2023	13600	Working	ARYA
Solar Dryer	2023	2540	Working	ARYA
Soil Mousier	2023	1750	Working	SCSP
Semi Grander	2023	21899	Working	SCSP
Banana Chip Maker	2023	3500	Working	SCSP
Flour Mill	2022	24990	Working	ARYA
b. Farm machinery				
Zero tillage machine	2003		Condemned	Received from ARI, Patna
Zero tillage machine	2007	49000	Condemned	Supply by R.A.U., Pusa
Box	2008	3200	Working	
Cultivator	2009	17000	Good	Supply by R.A.U., Pusa
Trailer with old tyre	2009	51923	Working	Supply by R.A.U., Pusa
MB plough	2009	15385	Good	Supply by R.A.U., Pusa
Laveller	2009	7692	Good	Supply by R.A.U., Pusa
Tractor (MF 1035 DIJ)	2009	405000	Condemned	Supply by R.A.U., Pusa
Trolley with storage box	2009	8900	Working	Supply by R.A.U., Pusa
Potato Planter	2010	40000	Working	NHB, Patna
Potato Digger	2010	46500	Working	NHB, Patna
Conoweeder	2010	1450	Condemned	Supply by R.A.U., Pusa
Zero Till Seed cum Fertilizer Drill	2011	-	Working	Supply by R.A.U., Pusa
Disc Harrow 12 disc (Mounted)	2012	-	Working	Supply by R.A.U., Pusa
Self-Propelled Reaper	2012	-	Condemned	
Fruit pruning machine	2012	1960931	Working	NHB, Patna
Power Winnower	2014	19425	Working	KVK
Shakti man semi champion Rotavator 5.5’	2014	99750	Working	KVK
Grass Trimmer (1)	2021	9762	Working	ARYA
Chain Saw Cutter	2021	18762	Working	ARYA
Paddy Thresher	2022	15500	Working	RF
Battery (Exide) - 2	2022	21000	Working	RF
Chaff Cutter	2023	20000	Working	ARYA
Cabinet Dryer	2022	59964	Working	ARYA
Rapid Air fryer	2023	7743	Working	ARYA
c. AV Aids				
Godrej Prima 15” (38 cm) English type writer with dust cover	2001	11050	Condemned	

Godrej Prima Hindi Type writer	2003	11530	Condemned	
Projector overhead projector voltage stabilizer Laser Printer	2003	11172	Working	
Cylinder-2 regulator	2002	1800	(-do-)	
Generator	2004	40000	(-do-)	
HP Computer System	2004	37765	(-do-) Need upgrading	
Combo Drive	2004	3550	(-do-)	
HP Laser Jet Printer	2004	13699	Condemned	
UPS Lenovo	2004	10160	Condemned	
Xerox Machine with stabilizer	2004	63492	Condemned	
Refrigerator (Central Purchasing D.E.D., R.A.U., Pusa)	2005	-	Need major repairing	
Stabilizer	2005	4400	Condemned	
Laser Pointer	2003	1936	Out of order	
Banana fibre extractor machine	2004	19720	Condemned	
Yasika MF2 No. 3514565	2006	1920	Condemned	
Fax Machine Panasonic Model	2005	8990	Condemned	
Fax Machine	2007	15600	Condemned	
Dim Display System (Hawkins)	2005	13065	Condemned	
Store well Grain	2006	10251	(-do-)	
Digital Camera	2005	18750	Condemned	
HP Psc 1402 Serial No- MY58RCCOWY	2006	4500	Condemned	
LCD Projector with Stand & display Stand	2007	7512332	Working	
Photocopier machine Canon (Model No. IR 2018N)	2008	53040	Condemned	
Fax machine Canon-TKD-29711	2008	15600	Condemned	
Digital Camera (Canon 5x110)	2009	29995	Condemned	
Computer (2)	2022	100399	Working	FPO
HP Laser Printer (1)	2022	24293.45	Working	FPO
Computer Printer	2023	9799.20	Working	FPO
CCTV Camera	2022	23335	Working	ARYA
Colour Computer Printer	2023	16135	Working	SCSP
Samsung Smart Television	2023	17479.8	Working	SCSP
Samsung Television	2023	14982	Working	SCSP
d. others				
Table (2)	2022	32200	Working	FPO
Revolving chair (2)	2022	21680	Working	FPO
Vishala Almirah (2)	2022	24980	Working	FPO
Banana fiber extraction (5)	2022		Working	ARYA
Trunk (2)	2022	11600	-	ARYA
Drill Hole Machine	2022	2650	Working	ARYA
Vacuum Machine	2022	3100	Working	ARYA
AC (1)	2022	33199	Working	ARYA
Metal Racks - 4 pic.	2022	18800	Working	ARYA

Portable & Fordable Stand	2023	1999	Working	ARYA
Almirah	2023	29500	Working	ARYA
Quail Cage	2023	15340	Working	ARYA
Revolving Computer Chair	2023	3000	Working	ARYA
Office Chair	2023	24750	Working	SCSP
Fire Extinguishers	2023	13600	Working	ARYA

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Zero tillage machine	2003		Condemned	Received from ARI, Patna
Zero tillage machine	2007	49000	Condemned	Supply by R.A.U., Pusa
Box	2008	3200	Working	
Cultivator	2009	17000	Good	Supply by R.A.U., Pusa
Trailer with old tyre	2009	51923	Condemned	Supply by R.A.U., Pusa
MB plough	2009	15385	Good	Supply by R.A.U., Pusa
Leveler	2009	7692	Good	Supply by R.A.U., Pusa
Tractor (MF 1035 DIJ)	2009	405000	Good	Supply by R.A.U., Pusa
Trolly with storage box	2009	8900	Condemned	Supply by R.A.U., Pusa
Potato Planter	2010	40000	Working	NHB, Patna
Potato Digger	2010	46500	Working	NHB, Patna
Conoweeder	2010	1450	Condemned	Supply by R.A.U., Pusa
Marker	2010	1550	Damaged	Supply by R.A.U., Pusa
Zero Till Seed cum Fertilizer Drill	2011	-	Good	Supply by R.A.U., Pusa
Disc Harrow 12 disc (Mounted)	2012	-	Good	Supply by R.A.U., Pusa
Self-Propelled Reaper	2012		Condemned	
Fruit pruning machine	2012	1960931	Needs servicing & new blade	NHB, Patna
Power Winnower	2014	19425	Working	KVK
Shakti man semi champion Rotavator 5.5’	2014	99750	Not in use	KVK
Zero tillage	2020	43120	Working	RPCAU, Pusa
Multi crop Thresher	2020	128800	Working	RPCAU, Pusa
Potato Planter	2020	97500	Working	RPCAU, Pusa
Power Weeder	2020	47600	Working	RPCAU, Pusa
Self-Propelled Reaper cum Binder	2020	520000	Working	RPCAU, Pusa
Happy Seeder	2020	-	Working	BISA, Pusa
Multi Crop Planter (04)	2020	-	Working	BISA, Pusa
Raised Bed Planter (02)	2020	-	Working	BISA, Pusa
Green Seeker	2020	-	Working	BISA, Pusa
Soil Moisture Meter (02)	2020	-	Working	BISA, Pusa
Drum Seeder (02)	2020	-	Working	BISA, Pusa

Laser Land Leveller	2021	-	Working	BISA, Pusa
Raised Bed Planter	2021	-	Working	BISA, Pusa
Mountated Sprayer	2021	-	Working	BISA, Pusa
Zero Tillage	2021	-	Working	BISA, Pusa
Wheat Seeder	2021	-	Working	BISA, Pusa
Tractor Tailor Hydrolic	2021	143400	Working	RPCAU, Pusa
Cultivator	2021	-	Working	RPCAU, Pusa
Tractor Operated Disc Plough	2021	94657	Working	RPCAU, Pusa
Tractor Operated Boom Type Sprayer	2021	-	Working	RPCAU, Pusa
Tractor Operated Reaper cum Binder	2021	342000	Working	RPCAU, Pusa
Rotavator	2021	-	Working	RPCAU, Pusa
Tractor Operated Arrow Blast Sprayer	2021	-	Working	RPCAU, Pusa
Cultivator	2022	-	Working	RPCAU, Pusa
Seed Treatment Dum	2023	4500	Working	SCSP
Music seller Treatment	2023	18500	Working	SCSP
Automatic Temperature meter	2023	2583	Working	SCSP
Supreme Mild Steel Wheel	2023	16000	Working	SCSP
Vegetable Trans planter Manually Operated	2023	4791.6	Working	SCSP
Soil Auger	2023	3246.25	Working	SCSP
Honey Extractor	2023	15000	Working	SCSP
Whole Hoe	2023	14998	Working	SCSP
Lawn Mower (1)	2022	10842	Working	ARYA

1.8. Details SAC meeting* conducted in the year

Date	Number of Participants	Total statutory member present (State line dept.)	Salient Recommendations	Action taken	If not conducted, state reason
29.09.2023	22	17	Mentioned below	Mentioned below	-

** Salient recommendation of SAC in bullet form*

21वीं वैज्ञानिक सलाहकार समिति (दिनांक 15.09.2022) की बैठक में दियगये सुझावों पर अनुपालन प्रतिवेदन

क्र0 सं0	सुझाव	अनुपालन
1.	बीज उत्पादन के लिए उगाई जाने वाली फूलगोभी की किस्म की पहचान करवाया जाए और इसके लिए विश्वविद्यालय के साथ संबंध स्थापित किया जाए।	• फूलगोभी बीज उत्पादन के लिये हाजीपुर प्रसिद्व है। फूलगोभी की इस किस्म की पहचान के लिए वि" वविद्यालय के साथ संबंध स्थापित किया गया जिसमें उन्होनें यह बताया कि बीज की भाुद्वता बनाए रखने के लिए अलगाव दूरी (Isolation distance) 1600 मीटर है। जिसका अनुपालन किसान नही करते है। इसलिए इस किस्म का पहचान करना मुि कल है। अतः दो अन्य प्रजाति सबौर अग्रिम एवं का" ाी कुंवारी की अनु" ांसा वि" वविद्यालय द्वारा की गई।
2.	वैशाली जिले के पातेपुर प्रखंड में ओल–मूँग तथा ओल–मक्का की अंतरवर्गीय खेती की जाए क्योंकि वहाँ ओल की खेती बड़े पैमाने पर की जाती है।	• कृशि विज्ञान केन्द्र, वै" ाली द्वारा जलवायु अनुकूल अंतर्गत पातेपुर प्रखंड के नीरपुर गॉव में ओल–मूंग की अंतरवर्गीय खेती का प्रत्यक्षण 0.04. एकड़ में लगाया गया। इस प्रत्यक्षण में प्राप्त मूंग की उपज 12.5 किलो/हे0 है और ओल की खुदाई अक्टूबर महीने में की जाएगी। ओल–मक्का की अंतरवर्गीय खेती का प्रत्यक्षण पातेपुर प्रखंड के वाजीदपुर गॉव में 0.04 एकड़ में लगाया गया जिसमें दोनो फसलों की खुदाई एवं कटाई ससमय की जाएगी।
3.	कृषि विज्ञान केन्द्र की तरफ से उन्हें बीज उपचार के लिए बीज कोटिंग मशीन उपलब्ध करवाया जाए जिससे कि वो सब्जियों के बीजों को वैज्ञानिक पद्वति से उपचार कर सके। प्राकृतिक उत्पाद जैसे– नीम से बीज का उपचार किया जाए।	• कृषि विज्ञान केन्द्र के द्वारा बीज उपचार के लिए बीज कोटिंग म" ाीन उपलब्ध करा दी गई जिससे की किसान सब्जियों के बीजों को वैज्ञानिक पद्वति से उपचार कर सके। किसानों को बीज कोटिंग म" ाीन से उपचार के विशय पर प्रि" ाक्षण दिया गया जिसमें 22 लाभार्थी (15 पुंरूश एवं 07 महिलाओं)।
4.	मशीन से केला रेशा निष्कर्षण के अलावा अन्य फाईबर निष्कर्षण के विभिन्न प्रक्रियाओं को प्रशिक्षण में शामिल किया जाए।	• म" ाीन के साथ–साथ मैनुअल विधि से केला रे" ाा निश्कर्शण पर प्रायोगिक प्रि" ाक्षण दिया गया जिसमें 21 प्रि" ाणार्थियों ने प्रि" ाक्षण में भाग लिया। जिसमें सभी महिला प्रि" ाक्षणार्थी थे। प्रि" ाक्षण के उपरांत दो महिलाओं ने केला रे" ाा निकालने का काम भाुरूआत किया और इससे हस्तकला निर्माण कर रहे है। केला रे" ाा निश्कर्शण विशय पर आठ प्रि" ाक्षण हुए। जिसमें प्रि" ाक्षणार्थियों की कुल सं0 182 (25 पुरूश एवं 157 महिला)। प्रि" ाक्षण के उपरांत 6 महिलाओं ने अपना उद्यमिता विकास किया और उन्हें जीविका के द्वारा वित्तीय सहायता म" ाीन खरीदने के लिए किया गया। बिहार औद्योगिक क्षेत्र विकास प्राधिकार, हाजीपुर में जिलाधिकारी वै" ाली के द्वारा एक औद्योगिक इकाई विकसित की गई।

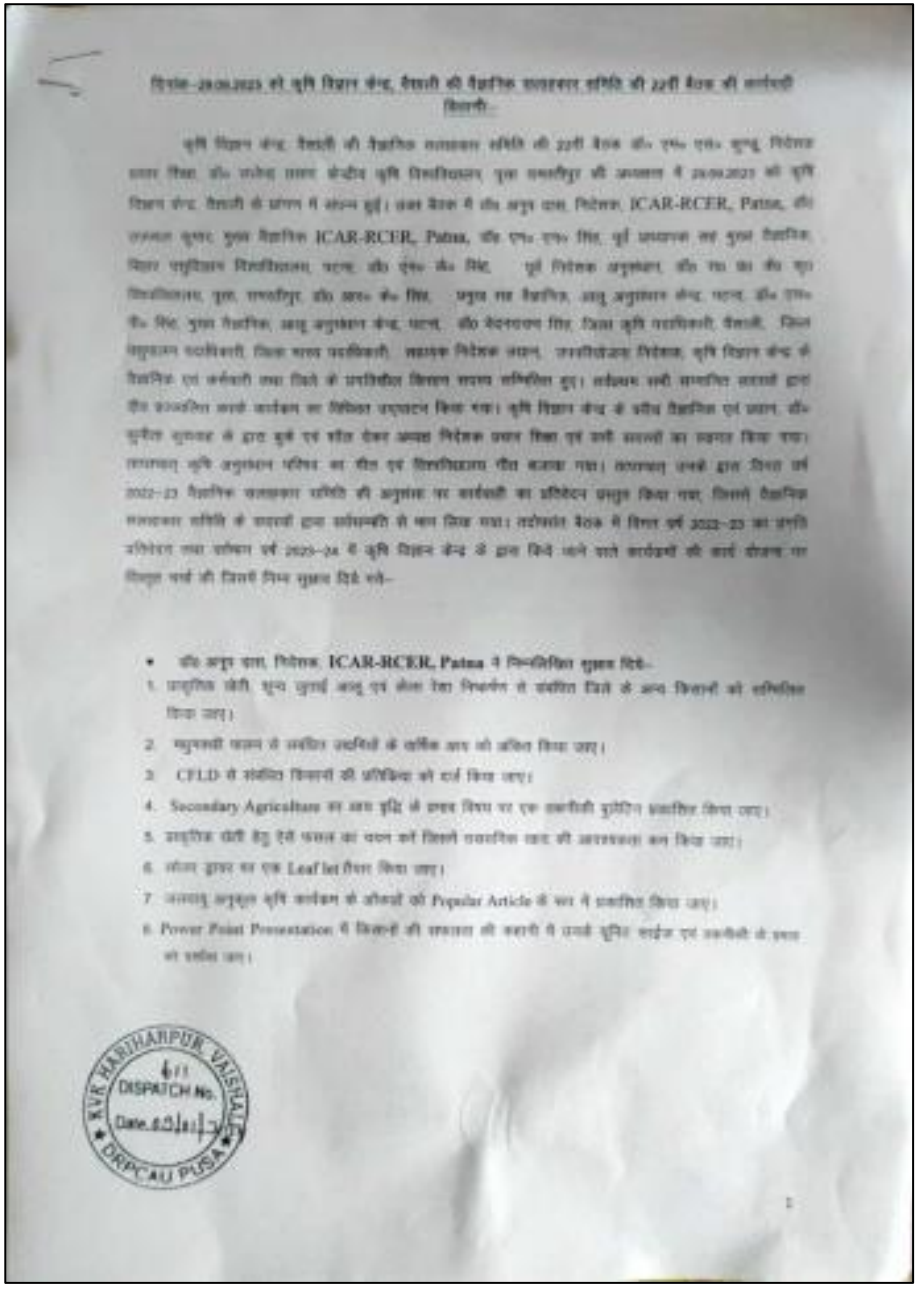
मैनुअल विधि		
नाम	**पता**	**मोबाईल सं0**
नीलम कुमारी	जन्दाहा	7903163267
महवा देवी	हरिहरपुर	–
म" ाीन से केला रे" ाा निश्कर्शण		
सुशीला देवी	छिकिया, राघोपुर	7325044594
ललिता कुमारी	छिकिया, राघोपुर	9576959929
कुमारी कृश्णा सिन्हा	मेहिउद्दीनपुर	6204861766
रेणु देवी	कमलपुर सिघिंया, विदुपुर	9006559276
सोनम कुमारी	सैदपुर रजौली	7352601635
आ" ाा देवी	कुसियारी, विदुपुर	9507312468

<table>
<tr>
<td>5.</td>
<td>केले के थम्ब के रस में पोषक तत्वों की मात्रा विश्वविद्यालय से प्रमाणित की जाए।</td>
<td>
● कृषि विज्ञान केन्द्र के द्वारा केले के थम्ब के रस में पोशक तत्वों की मात्रा का ऑकलन डॉ0 राजेन्द्र प्रसाद केन्द्रीय कृशि वि" वविद्यालय, पूसा के मृदा विज्ञान विभाग से किया गया, जो कि इस प्रकार है– रासायनिक गुण एवं पोशक तत्व (केला रस)
<table>
<tr><th>पोशक तत्व</th><th>सैंपल 1</th><th>सैंपल 2</th></tr>
<tr><td>pH</td><td>5.97</td><td>5.11</td></tr>
<tr><td>EC (dS/m)</td><td>6.98</td><td>6.20</td></tr>
<tr><td>N (ppm)</td><td>112</td><td>89</td></tr>
<tr><td>P (ppm)</td><td>145</td><td>113</td></tr>
<tr><td>K (ppm)</td><td>1100</td><td>1070</td></tr>
<tr><td>Zn (ppm)</td><td>0.37</td><td>0.41</td></tr>
<tr><td>Cu (ppm)</td><td>0.54</td><td>0.41</td></tr>
<tr><td>Mn (ppm)</td><td>2.77</td><td>2.81</td></tr>
<tr><td>Fe (ppm)</td><td>2.59</td><td>2.63</td></tr>
</table>
<table>
<tr><th colspan="2">कम्पोस्ट</th></tr>
<tr><th>पैरामीटर</th><th>वैल्यू</th></tr>
<tr><td>pH</td><td>7.25</td></tr>
<tr><td>EC (dS/m)</td><td>3.31 dSm^{-1}</td></tr>
<tr><td>TOC (%)</td><td>22</td></tr>
<tr><td>Total N (%)</td><td>1.28</td></tr>
<tr><td>Total P (%)</td><td>0.56</td></tr>
<tr><td>Total K (%)</td><td>1.37</td></tr>
</table>
</td>
</tr>
<tr>
<td>.6.</td>
<td>पोषण वाटिका के लिए बायोफोर्टिफाइड बीजों का उपयोग तथा वितरण किया जाए, प्रशिक्षण कार्यक्रम में भाग लेने वाली महिलाओं के बच्चों के लिए नर्सरी कक्ष का निर्माण किया जाए तथा बड़े प्रशिक्षण हॉल का निर्माण किया जाए।</td>
<td>
● पोषण वाटिका के लिए बायोफोर्टिफाइड बीज जैसे–
नीलकंठ आलू के बीज के लिए केन्द्रीय आलू अनुसंधान केन्द्र, पटना को बीज उपलब्ध कराने के लिए आवेदन दिया गया था परन्तु बीज उपलब्ध नही हो पाया। प्र" िक्षण कार्यक्रम के दौरान महिला प्र" िणार्थियों के ि" ा" ु के लिए ि" ा" ु देखभाल कक्ष का निर्माण किया गया। जिसमें कुल 24 ि" ा" ुओं का कृशि विज्ञान केन्द्र के परिचारिका के द्वारा ध्यान रखा गया। बड़े प्र" िक्षण हॉल के निर्माण हेतु कृशि विज्ञान केन्द्र के पास इस मद में रा" ि उपलब्ध नही है।
</td>
</tr>
<tr>
<td>7.</td>
<td>फूलों की खेती को फसल प्रणाली में शामिल किया जाए।</td>
<td>
● गेन्दे के पौधे को फसल प्रणाली में भामिल किया गया है एवं इसे बढावा देने के लिये किसानों के खेत में पिंचिंग तकनीक को ऑन फार्म ट्रायल एवं अग्रिम पंक्ति प्रद" ान के तहत द" ार्या गया जिसमें पौध की रोपाई के 30–40 दिनों के बाद पौधों को उपर से तोड़ दिया जाता है। इससे अधिक संख्या में भााखाऍ प्राप्त होती है तथा फूलों की संख्या भी बढ़ जाती है। किसानों की सं0–10, कुल क्षेत्र–2.8 हेक्टेयर
किसानों के नाम– जिन्होने इसे अपनाया।
<table>
<tr><th>क्र0 सं0</th><th>किसानों के नाम</th><th>क्षेत्र</th><th>मोबाईल सं</th></tr>
<tr><td>1.</td><td>हरेन्द्र भगत</td><td>2 एकड़</td><td>9431854428</td></tr>
<tr><td>2.</td><td>अमोद कुमार भगत</td><td>4 एकड़</td><td>6205844644</td></tr>
<tr><td>3.</td><td>अखिले" ा भगत</td><td>2 एकड़</td><td>9128407836</td></tr>
<tr><td>4.</td><td>मुन्ना कुमार</td><td>1 एकड़</td><td>9661239893</td></tr>
</table>
</td>
</tr>
<tr>
<td>8.</td>
<td>ेती पर जोर दिया जाए जिससे कि किसानों की आय में सततवृद्वि होगी। देशी नस्ल की दो कमजोर गायों को खरीदकर उसका पालन एवं देखभाल किया जाए।</td>
<td>
● दे" ाी नस्ल की साहिवाल बाछी का प्रबंधन किया जा चुका है।
</td>
</tr>
</table>

<table>
<tr><td>9.</td><td>शून्य जुताई से आलू की खेती की जाए।</td><td>• जलवायु अनुकूल कृशि कार्यक्रम के अंतर्गत्त पातेपुर प्रखंड के नीरपुर गाँव में 2 किसानों के 0.5 एकड़ में भून्य जुताई से आलू लगाया गया। इस विधि में प्राप्त आलू का उपज 300 क्विंटल/हे0 है, जो की परंपरागत आलू की खेती के तुलना में 39 प्रति" ात अधिक है।</td></tr>
<tr><td>10.</td><td>केले से संबंधित प्रसंस्करण हेतु प्रशिक्षण दिया जाए।</td><td>• कृषि विज्ञान केन्द्र के द्वारा केले से संबंधित प्रसंस्करण हेतु प्रशिक्षण दिया गया। इस दौरान प्र" ाक्षणार्थियों को केले का चिप्स और केले का पाउडर बनाने की विधि का प्र" ाक्षण दिया गया। जिसमें कुल 75 प्र" ाक्षणार्थी लाभान्वित हुए।
दो महिलाओ ने केला से चिप्स, एवं पाउडर का प्रस्संकरण का कार्य लघु स्तर पर भुरूआत की है।
<table>
<tr><th>नाम</th><th>पता</th><th>मोबाईल सं0</th></tr>
<tr><td>अनीता देवी</td><td>बिदुपुर</td><td>9102927280</td></tr>
<tr><td>संजू देवी</td><td>बिदुपुर</td><td>8229837268</td></tr>
</table></td></tr>
<tr><td>11.</td><td>आर्या परियोजना के अन्तर्गत बटेर पालन पर दर्ज आँकड़ों का विश्लेषण किया जाए तथा पत्रिकाओं में प्रकाशित किया जाए।</td><td>• आर्या परियोजना के अन्तर्गत बटेर पालन पर दर्ज आँकड़ों का विश्लेषण किया गया एवं (Indian Journal of Extension Education, NAAS-5.95) पत्रिका में प्रका" ात किया गया।पॉच किसानों की सफलता की कहानी लिखी गई।
<table>
<tr><th>नाम</th><th>पता</th><th>मोबाईल सं0</th></tr>
<tr><td>राजा रजक</td><td>गुड़मियॉ, हाजीपुर</td><td>8873912764</td></tr>
<tr><td>राजदेव राय</td><td>हरपुर मुकुन्द, राजापाकर</td><td>9470633763</td></tr>
<tr><td>राम कल" ा</td><td>चकपुल्ला, हाजीपुर</td><td>–</td></tr>
<tr><td>छोटु विवेक</td><td>हरपुर मुकुन्द, राजापाकर</td><td>9709874741</td></tr>
<tr><td>माधवी देवी</td><td>हिलालपुर, हाजीपुर</td><td>9117138865</td></tr>
</table></td></tr>
<tr><td>12.</td><td>बेहतर उपज और गुणवता वाले उत्पाद के लिए किसानों के खेत में अमरूद के पेड़ों की कटाई–छॅटाई का प्रर्दशन किया जाए।</td><td>• बेहतर उपज और गुणवता के लिये रामपुर रत्नाकर गॉव 5 किसानों के अमरूद के पेड़ों में कटाई–छँटाई का प्रद" ान दिया गया है। जिसमें से तीन किसानों ने इस तकनीक को बखूबी अपनाया।
<table>
<tr><th>किसान के नाम</th><th>मोबाईल सं0</th></tr>
<tr><td>उमे" ा दास</td><td>7061898553</td></tr>
<tr><td>राजे" ा कुमार</td><td>9470752280</td></tr>
<tr><td>विजय कुमार</td><td>9650783305</td></tr>
</table></td></tr>
<tr><td>13.</td><td>कृषि विज्ञान केन्द्र के सभी वैज्ञानिक अपने–अपने विषयों के प्रशिक्षण कार्यक्रम के लक्ष्यों को पूरा करें।</td><td>
<table>
<tr><th rowspan="2">विषय</th><th colspan="4">प्र"ाक्षण की सं0
(प्र"ाक्षणार्थियों की सं0)</th><th rowspan="2">अंगीकृत किसानों की सं0</th></tr>
<tr><th>कृशकों के लिए</th><th>ग्रामीण युवक/युवतियों के लिए</th><th>प्रसार कार्यकर्ताओं के लिए</th><th>व्यावसायिकों के लिए</th></tr>
<tr><td>पौधा संरक्षण</td><td>24 (575)</td><td>06 (153)</td><td>02 (165)</td><td>01 (22)</td><td>70</td></tr>
<tr><td>कृशि अभियंत्रण</td><td>24 (560)</td><td>06 (145)</td><td>02 (65)</td><td>01 (23)</td><td>14</td></tr>
<tr><td>गृह विज्ञान</td><td>24 (567)</td><td>06 (162)</td><td>02 (90)</td><td>01 (27)</td><td>28</td></tr>
<tr><td>पशु विज्ञान</td><td>24 (585)</td><td>06 (176)</td><td>02 (60)</td><td>01 (24)</td><td>15</td></tr>
<tr><td>फसल उत्पादन</td><td>24 (585)</td><td>06 (140)</td><td>02 (165)</td><td>01 (21)</td><td>50</td></tr>
<tr><td>उद्यान</td><td>14 (330)</td><td>03 (75)</td><td>01 (30)</td><td>01 (24)</td><td>22</td></tr>
</table></td></tr>
</table>

<table>
<tr><td>14.</td><td>बटेर पालन, केला रेशा निष्कर्षण, गेन्दे में पीचिंग इत्यादि पर अधिकतम पॉच से सात मिनट के लघु फिल्म विकसित किया जाए।</td><td>• कृषि विज्ञान केन्द्र के द्वारा बटेर पालन, केला रेशा निष्कर्षण, गेन्दे में पीचिंग तकनीकी विशय के अलावा निम्न विशय पर लघु फिल्म विकसित की गई।
1. RAWE Activities
2. KVK at a Glance
3. KVK Activities
4. Glimps of KVK
5. Preparation of Handicrafts</td></tr>
<tr><td>15.</td><td>जलवायु अनुकूल कृषि कार्यक्रम में विकसित आँकड़ों को डॉ0 वी0 एस0 मीणा, वैज्ञानिक, बीसा की मदद से प्रकाशित किया जाए।</td><td>• जलवायु अनुकूल कृशि कार्यक्रम में विकसित आँकड़ों से 2 रिसर्च पेपर तैयार कर प्रतिश्ठित पत्रिकाओं में प्रका” ान हेतु भेजा जा चुका है जिसका विशय है–
1. Impact of Climate Resilient Agriculture Practices: An experience from the marginal farmer of Bihar in Journal of Agricultural Science & Technology.
2. Effect of different tillage practices on the growth and yield attributes of Potato (Solanum tuberoum L.) in AATCC.</td></tr>
<tr><td>16.</td><td>किसानों की पहुॅच बढाने के लिए छः वैज्ञानिकों को छः अलग–अलग व्हाट्सएप ग्रुप बनाने की आवश्यकता है।</td><td>• सभी वैज्ञानिकों द्वारा अपने–अपने विशयों से संबंधित व्हाट्सएप ग्रुप बनाये गये।
<table>
<tr><th>विषय</th><th>व्हाट्सएप ग्रुप का नाम</th><th>सदस्य की सं0</th><th>पोस्ट की सं0</th></tr>
<tr><td>पौधा संरक्षण</td><td>1. KVK Vaishali Beekeepers
2. KVK Vaishali Mushroom</td><td>70
55</td><td>60
70</td></tr>
<tr><td>कृशि अभियंत्रण</td><td>Post Harvest Technology,KVK,Vaishali</td><td>45</td><td>30</td></tr>
<tr><td>गृह विज्ञान</td><td>Banana Fiber</td><td>41</td><td>61</td></tr>
<tr><td>पशु विज्ञान</td><td>1. KVK Goat Rearing
2. KVK Vaishali for Murgi Palan
3. KVK Quail Farming</td><td>35
28
10</td><td>110
78
25</td></tr>
<tr><td>फसल उत्पादन</td><td>Fasal Utpadan KVK Vaishali</td><td>50</td><td>20</td></tr>
<tr><td>उद्यान</td><td>KVK Vaishali 5 Horti</td><td>46</td><td>56</td></tr>
</table></td></tr>
<tr><td>17.</td><td>कड़कनाथ मुर्गी के 100 अंडे बेगुसराय से लाया जाए और कृषि विज्ञान केन्द्र में उसके पालन की व्यवस्था की जाए।</td><td>• 10 कड़कनाथ मुर्गी का प्रबंधन किया जा चुका है।</td></tr>
</table>

Copy of SAC proceedings along with list of participants:

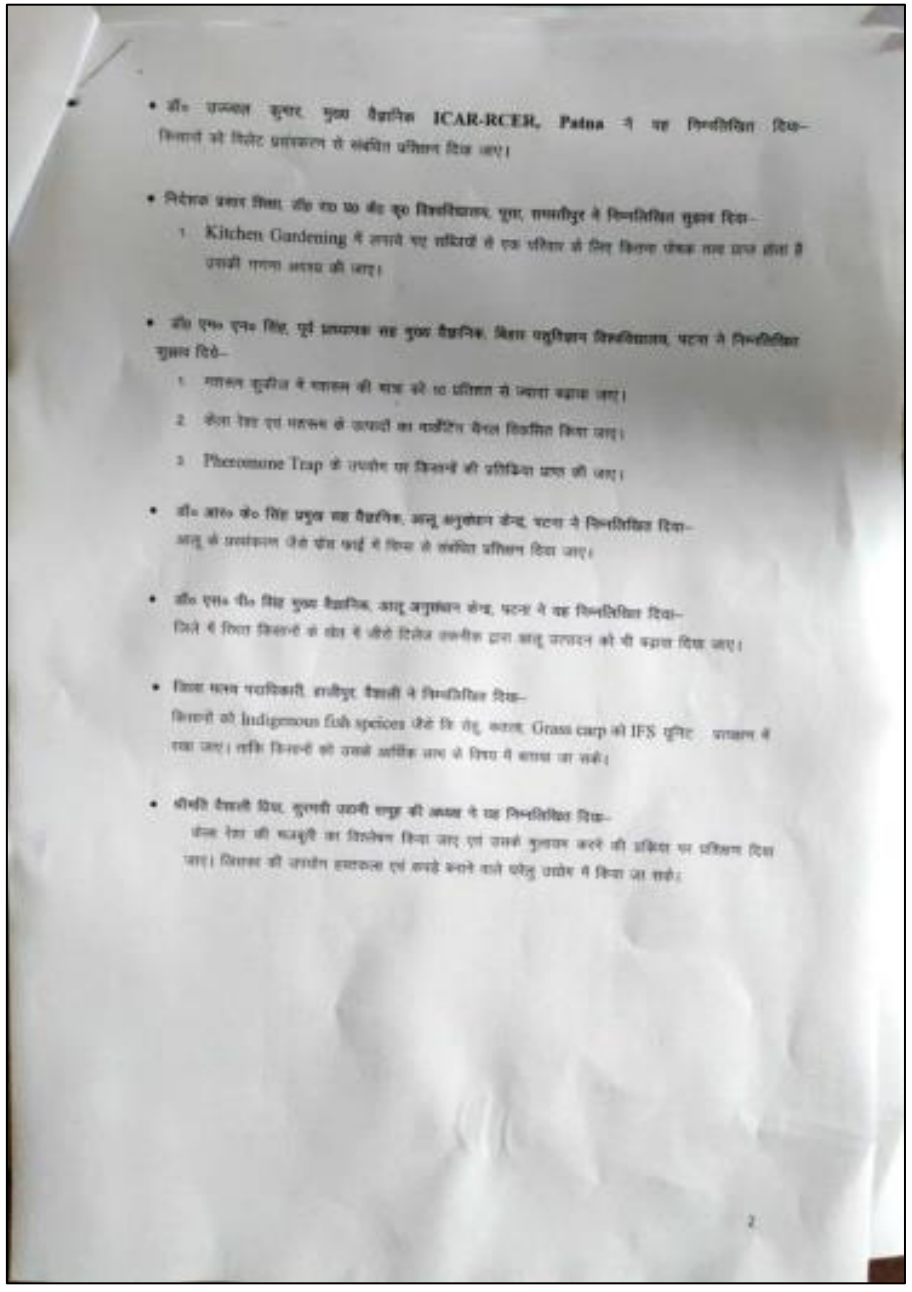


दिनांक-29.06.2023 को कृषि विज्ञान केन्द्र, वैशाली की वैज्ञानिक सलाहकार समिति की 23वीं बैठक की कार्यवाही विवरणी-

कृषि विज्ञान केन्द्र, वैशाली की वैज्ञानिक सलाहकार समिति की 23वीं बैठक डॉ० एन० एस० पुण्डीर, निदेशक प्रसार शिक्षा, डॉ० राजेन्द्र प्रसाद केन्द्रीय कृषि विश्वविद्यालय, पूसा समस्तीपुर की अध्यक्षता में 29.06.2023 को कृषि विज्ञान केन्द्र, वैशाली के प्रांगण में आयोजन हुई। उक्त बैठक में डॉ० अनुप दास, निदेशक, ICAR-RCER, Patna, डॉ० उपमन्यु कुमार, मुख्य वैज्ञानिक ICAR-RCER, Patna, डॉ० एन० एस० सिंह, पूर्व प्रध्यापक सह मुख्य वैज्ञानिक, बिहार पशुचिकित्सा विश्वविद्यालय, पटना, डॉ० एस० के० सिंह, पूर्व निदेशक अनुसंधान, डॉ० रा० वे० वि० कृ० विश्वविद्यालय, पूसा, समस्तीपुर, डॉ० आर० के० सिंह, प्रमुख सह वैज्ञानिक, आलू अनुसंधान केन्द्र, पटना, डॉ० एस० पी० सिंह, मुख्य वैज्ञानिक, आलू अनुसंधान केन्द्र, पटना, डॉ० देवेन्द्रनाथ सिंह, जिला कृषि पदाधिकारी, वैशाली, जिला पशुपालन पदाधिकारी, जिला मत्स्य पदाधिकारी, सहायक निदेशक उद्यान, उपनिदेशक उद्यान निदेशक, कृषि विज्ञान केन्द्र के वैज्ञानिक एवं कर्मचारी तथा जिले के प्रगतिशील किसान सदस्य सम्मिलित हुए। सर्वप्रथम सभी सम्मानित सदस्यों द्वारा दीप प्रज्वलित करके कार्यक्रम का विधिवत उद्घाटन किया गया। कृषि विज्ञान केन्द्र के प्रभारी वैज्ञानिक एवं प्रधान, डॉ० सुरेश कुमार के द्वारा कुछ एक शब्द बोलकर अध्यक्ष निदेशक प्रसार शिक्षा एवं सभी सदस्यों का स्वागत किया गया। तत्पश्चात् कृषि अनुसंधान परिषद का गीत एवं विश्वविद्यालय गीत बजाया गया। तत्पश्चात् उनके द्वारा वित्त वर्ष 2022-23 वैज्ञानिक सलाहकार समिति की अनुशंसा पर कार्यवाही का प्रतिवेदन प्रस्तुत किया गया, जिसमें वैज्ञानिक सलाहकार समिति के सदस्यों द्वारा सम्मिलाही से पास किए गया। तदोपरांत बैठक में वित्त वर्ष 2022-23 का प्रगति प्रतिवेदन तथा वर्तमान वर्ष 2023-24 में कृषि विज्ञान केन्द्र के द्वारा किये जाने वाले कार्यक्रमों की कार्य योजना पर विस्तृत चर्चा की जिसमें निम्न सुझाव दिये गये-

- डॉ० अनुप दास, निदेशक, **ICAR-RCER, Patna** ने निम्नलिखित सुझाव दिये-

1. प्रायोगिक खेती, मुख्य फुसाई आलू एवं लोबा रेका निष्कर्षण से संबंधित जिले के अन्य किसानों को सम्मिलित किया जाए।
2. स्थापनकी पालन से संबंधित उपस्थिति के वार्षिक आय को अंकित किया जाए।
3. CFLD से संबंधित किसानों की प्रतिक्रिया को दर्ज किया जाए।
4. Secondary Agriculture का अब वृद्धि के ऊपर विषय पर एक तकनीकी पुस्तिका प्रकाशित किया जाए।
5. प्रायोगिक खेती हेतु ऐसे फसल का चयन करें जिसमें तकनीकि खाद की आवश्यकता कम किया जाए।
6. लोबा द्वारा पर एक Leaf let तैयार किया जाए।
7. आगामी अनुकूल कृषि कार्यक्रम के आँकड़ों को Popular Article के रूप में प्रकाशित किया जाए।
8. Power Point Presentation में किसानों की सफलता की कहानी में उनके पूर्ण पता एवं तकनीकी के प्रयास को सम्मिलित जाए।



- डॉ० उपमन्यु कुमार, मुख्य वैज्ञानिक **ICAR-RCER, Patna** ने यह निम्नलिखित दिया-
किसानों को विशेष प्रशिक्षण से संबंधित प्रशिक्षण दिया जाए।

- निदेशक प्रसार शिक्षा, डॉ० रा० वे० कृ० विश्वविद्यालय, पूसा, समस्तीपुर ने निम्नलिखित सुझाव दिया-
1. Kitchen Gardening में लगाये गए सब्जियों से एक परिवार के लिए कितना पोषक तत्व प्राप्त होता है उसकी गणना अवश्य की जाए।

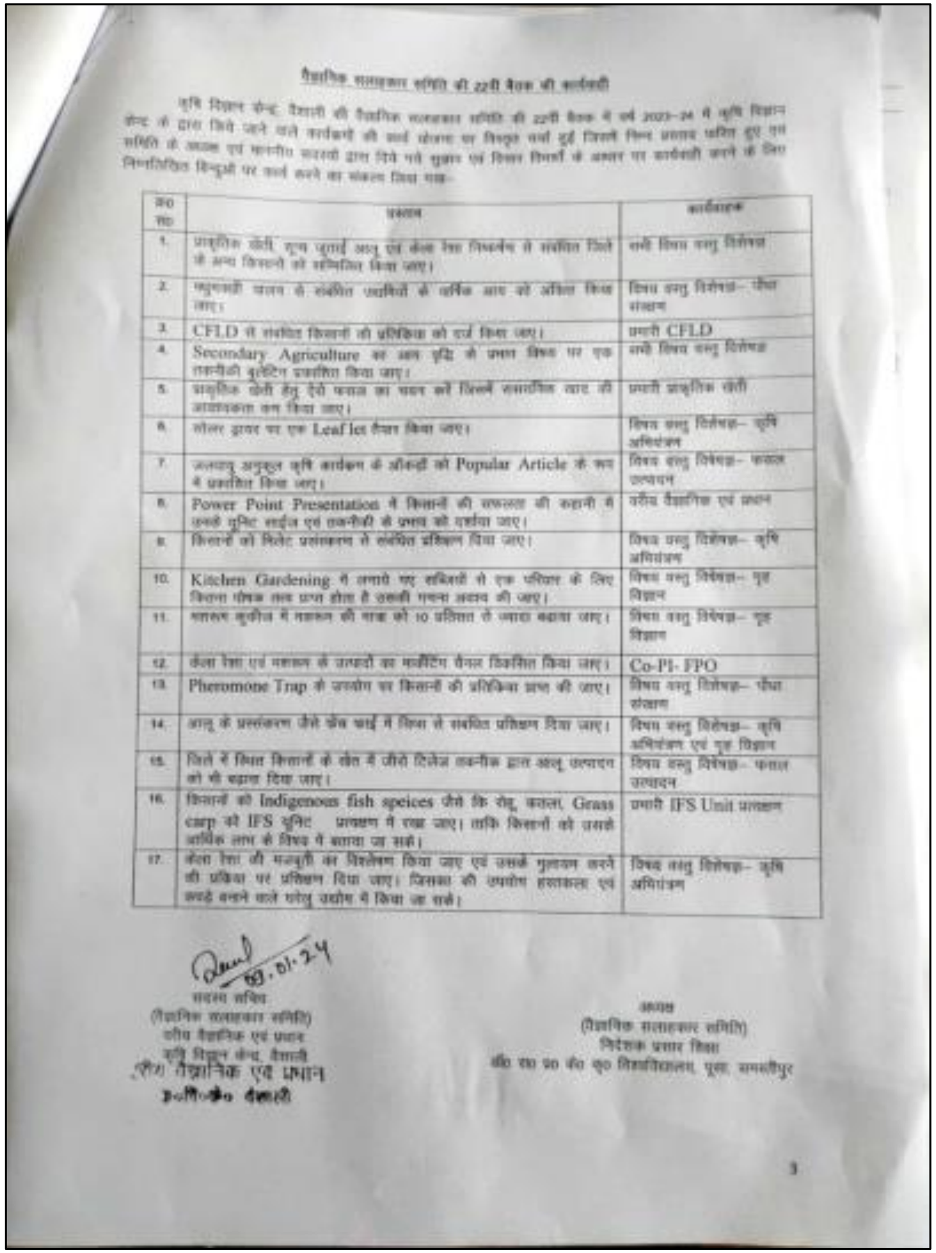
- डॉ० एन० एस० सिंह, पूर्व प्राध्यापक सह मुख्य वैज्ञानिक, बिहार पशुचिकित्सा विश्वविद्यालय, पटना ने निम्नलिखित सुझाव दिये-
1. गवाल्ल सुरक्षित में गवाल्ल की साख को 10 प्रतिशत से ज्यादा बढ़ाया जाए।
2. लोबा रेका एवं महकम के उत्पादों का मार्केटिंग चैनल विकसित किया जाए।
3. Pheromone Trap के उपयोग पर किसानों की प्रतिक्रिया प्राप्त की जाए।

- डॉ० आर० के० सिंह प्रमुख सह वैज्ञानिक, आलू अनुसंधान केन्द्र, पटना ने निम्नलिखित दिया-
आलू के उत्पादकता जैसे फोम फाई में किया से संबंधित प्रशिक्षण दिया जाए।

- डॉ० एस० पी० सिंह मुख्य वैज्ञानिक, आलू अनुसंधान केन्द्र, पटना ने यह निम्नलिखित दिया-
जिले में स्थित किसानों के खेत में जैसे टिलेज तकनीक द्वारा आलू उत्पादन को भी बढ़ावा दिया जाए।

- जिला मत्स्य पदाधिकारी, समस्तीपुर, वैशाली ने निम्नलिखित दिया-
किसानों को Indigenous fish species जैसे कि रोहू, कतला, Grass carp को IFS यूनिट प्रावधान में रखा जाए। ताकि किसानों को उसके आर्थिक आय से विषय में बताया जा सके।

- सीनी वैशाली जिला, सुलतानी पदाधि समूह की अध्यक्ष ने यह निम्नलिखित दिया-
लोबा रेका की मजबूती का विश्लेषण किया जाए एवं उसके मुल्यवर्धन करने की प्रक्रिया पर प्रशिक्षण दिया जाए। किसान की उत्पादन क्षमताओं एवं आयदे बनाने वाले घरेलु उद्योग में किया जा सके।



वैज्ञानिक सलाहकार समिति की 22वीं बैठक की कार्यवाही

कृषि विज्ञान केन्द्र, वैशाली की वैज्ञानिक सलाहकार समिति की 22वीं बैठक में वर्ष 2023-24 में कृषि विज्ञान केन्द्र के द्वारा किये जाने वाले कार्यक्रमों की कार्य योजना पर विस्तृत चर्चा हुई जिसमें निम्न प्रस्ताव पारित हुए एवं समिति के अध्यक्ष एवं माननीय सदस्यों द्वारा दिये गये सुझाव एवं विचार विमर्श के आधार पर कार्यवाही करने के लिए निम्नलिखित बिन्दुओं पर कार्य करने का संकल्प लिया गया-

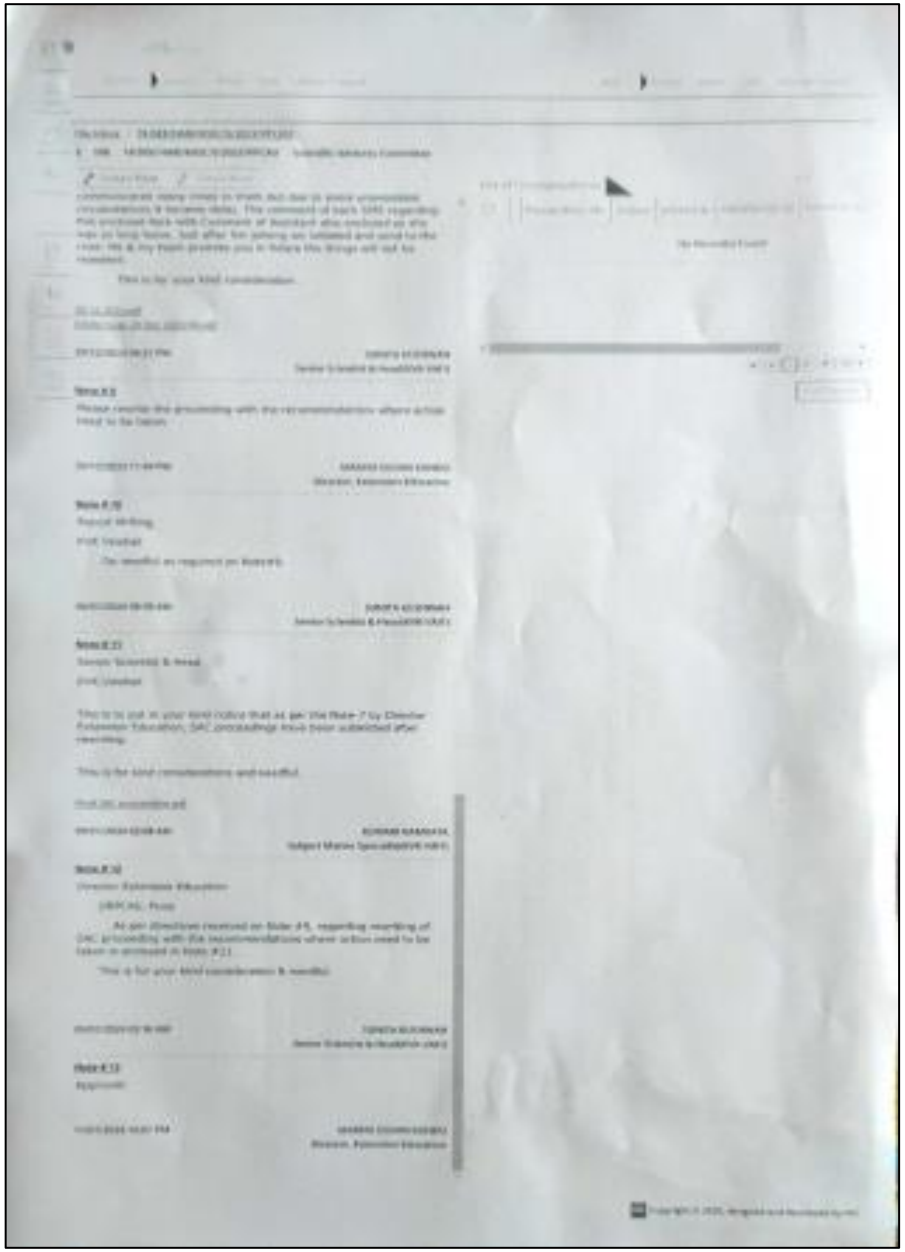
क्र० सं०	प्रस्ताव	कार्यवाहक
1.	प्राकृतिक खेती, शून्य जुताई आलू एवं केला रेशा निष्कर्षण से संबंधित जिले के अन्य किसानों को सम्मिलित किया जाए।	सभी विषय वस्तु विशेषज्ञ
2.	मधुमक्खी पालन से संबंधित उद्यमियों के वार्षिक आय को अंकित किया जाए।	विषय वस्तु विशेषज्ञ- पौधा संरक्षण
3.	CFLD से संबंधित किसानों की प्रतिक्रिया को दर्ज किया जाए।	प्रभारी CFLD
4.	Secondary Agriculture का आय वृद्धि में प्रभाव विषय पर एक तकनीकी बुलेटिन प्रकाशित किया जाए।	सभी विषय वस्तु विशेषज्ञ
5.	प्राकृतिक खेती हेतु ऐसी फसल का चयन करें जिसमें रासायनिक खाद की आवश्यकता कम किया जाए।	प्रभारी प्राकृतिक खेती
6.	सोलर ड्रायर पर एक Leaf let तैयार किया जाए।	विषय वस्तु विशेषज्ञ- कृषि अभियंत्रण
7.	जलवायु अनुकूल कृषि कार्यक्रम के आँकड़ों को Popular Article के रूप में प्रकाशित किया जाए।	विषय वस्तु विशेषज्ञ- फसल उत्पादन
8.	Power Point Presentation में किसानों की सफलता की कहानी में उनके यूनिट साईज एवं तकनीकी के प्रभाव को दर्शाया जाए।	वरीय वैज्ञानिक एवं प्रधान
9.	किसानों को मिलेट प्रसंस्करण से संबंधित प्रशिक्षण दिया जाए।	विषय वस्तु विशेषज्ञ- कृषि अभियंत्रण
10.	Kitchen Gardening में लगाये गए सब्जियों से एक परिवार के लिए कितना पोषक तत्व प्राप्त होता है उसकी गणना अवश्य की जाए।	विषय वस्तु विशेषज्ञ- गृह विज्ञान
11.	मखाना कुकीज में मखाना की मात्रा को 10 प्रतिशत से ज्यादा बढ़ाया जाए।	विषय वस्तु विशेषज्ञ- गृह विज्ञान
12.	केला रेशा एवं मखाना के उत्पादों का मार्केटिंग चैनल विकसित किया जाए।	Co-PI- FPO
13.	Pheromone Trap के उपयोग पर किसानों की प्रतिक्रिया प्राप्त की जाए।	विषय वस्तु विशेषज्ञ- पौधा संरक्षण
14.	आलू के प्रसंस्करण जैसे फ्रेंच फ्राई में विधि से संबंधित प्रशिक्षण दिया जाए।	विषय वस्तु विशेषज्ञ- कृषि अभियंत्रण एवं गृह विज्ञान
15.	जिले में स्थित किसानों के खेत में जीरो टिलेज तकनीक द्वारा आलू उत्पादन को भी बढ़ावा दिया जाए।	विषय वस्तु विशेषज्ञ- फसल उत्पादन
16.	किसानों को Indigenous fish speices जैसे कि रोहू, कतला, Grass carp को IFS यूनिट प्रायक्षण में रखा जाए। ताकि किसानों को उससे आर्थिक लाभ के विषय में बताया जा सके।	प्रभारी IFS Unit प्रायक्षण
17.	केला रेशा की मजबूती का विश्लेषण किया जाए एवं उसके गुणवत्ता करने की प्रक्रिया पर प्रशिक्षण दिया जाए। जिसका की उपयोग हस्तकला एवं कपड़े बनाने वाले घरेलू उद्योग में किया जा सके।	विषय वस्तु विशेषज्ञ- कृषि अभियंत्रण

09.01.24

सदस्य सचिव
(वैज्ञानिक सलाहकार समिति)
वरीय वैज्ञानिक एवं प्रधान
कृषि विज्ञान केन्द्र, वैशाली

अध्यक्ष
(वैज्ञानिक सलाहकार समिति)
निदेशक प्रसार शिक्षा
डॉ० रा० प्र० के० कृ० विश्वविद्यालय, पूसा, समस्तीपुर

3



2.a. District level data on agriculture, livestock and farming situation (2023)

Sl. No.	Items	Information
1	Major Farming system of the district	Agri. Horti (Vegetable) –Horticulture (Fruits) –A.H. (Animal Husbandry) (Dairy, Goatry& Fishery) (Irrigated and high cropping intensity area), Horti. (Veg.) – A.H.-Agri- Horti (fruits). (Diara area)Agri- A.H.- Hort..(Fruit)- Hort. (Veg)., (Rainfed Area Agri- A.H.,**(Flood Prone area)**, Agriculture- A.H., **(Water logged or Chaur Area)**
2	One district one product (NITI Ayog)	Honey
3	Agro-climatic Zone	Zone – I, Bihar
4	Agro ecological situation	Upland irrigated/RF, Midland irrigated/RF, Low land rainfed &Chaur land
5	Soil type	Sandy Loam
6	Productivity of major crops of districts	
	Paddy	34.24 q/ha
	Wheat	35.18 q/ha
	Pulse	13-15 q/ha
	Oilseed	16-18 q/ha
	Veg. (name)	Cauliflower (275 q/ha), Brinjal (245 q/ha) Tomato(250 q/ha), Bottle Gourd(175 q/ha)
	Fruit (Name)	Banana (80-90 t/ha), Mango (10-15 t/ha)
7	Mean yearly temperature, rainfall, humidity of the district	Mean Yearly temperature 25.8º C average rainfall 993 mm.
8	Production of major livestock products like, etc.	Live Stock Dairy Animal- 1. Cross breed Cow- (Average milk yield 10 liter per day) Local Cow- (Average milk yield 03 liter per day) Total Cow- 212170 2. Buffalow- 170804 (Average milk yield in 12 liter per day) Total Production **five** lakh liter per day
	Milk	
	Egg	
	Meat	

2.b. Details of operational area / villages (2023)

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1.	Rajapakar	Rajapakar	Faridpur,Sarsai, Rajapakar, Bakhari Barai,Harpurmukund	Integrated pest Management– Papaya, Guava, Litchi,Cauliflower,Potato, Pointed gourd, Capsicum,Banana,Vegetables,	- Farmers are unaware about the IPM technologies, Problem in cultivation of Papaya - Old orchard of Guava - Lots of pdeudostem produced and thrown at road side, Excessive use of chemicals fertilisers	CFLD,Integrated Pest Management/Integrated Disease management Effect of ARKA Vegetable Special and Arka Microbial Consortia in vegetable crops,Pruning in Guava, Cultivation of Papaya, Quality seed production, Production of Exotic vegetables, Application of Tricoderma and Consortia in Brinjal, Banana fiber extraction and handicrafts, Good quality seeds of pulses and oilseeds. Application of Sulphur, Boron, Zinc and other required micronutrients, Application of Natural Farming inputs like Beejamrit, Jeevamrit, and Neemastra. Seed production technique for quality crop production.
2.	Dharhara	Lalganj	Dharhara, Gurmia	Field crops Mango, Litchi,Rice wheat, Potato	Labour availability, Fruit drop and Alternate bearing,Lack of assured irrigation and lodging problem	OFT, CFLD, Use of machinery in cultivation Application of Sulphur, Boron, Zinc and other required micronutrients Good quality seed of pulses and oilseeds, Use of Silica fertilizer in cereal crops
3.	Thanpur	Mahnar	Thanpur	Oilseeds and Pulses	Non-availabity of good quality seeds	Good quality seeds of pulses and oilseeds. Application of Sulphur, Boron, Zinc and other required micronutrients
4.	Loma Bejha	Hajipur	Loma Bejha, HilalpurHariharpur, Chakwara	Rice,Wheat, Vegetables- Cauliflower, Brinjal Paddy,Moong,Litchi Dairy, Vegetables	Excessive use of harsh chemicals fertlisers and high prices of urea, Seed certification, Boron deficiency,Insect pest disease attack. Off season production Uneven floor in dairy house	FLD, OFT, Trainings, NARI, Use of nano fertilisers in cereal crops, Quality Seed production. Girdling technology Housing management

5.	Patepur	Patepur	Bajitpur, Nirpur, Bardiha,Repura, Rasalpur	Cereals, pulses	Lack of labour availability and farm mechanisation	CRA, Use of machinery and all other climate resilient agriculture technologies
6.	Mahnar	Jandaha	Jandaha	Value addition & income generating activity	Unskilled way for making value added product	Training in making value added product
7.	Hajipur	Lalganj	Jalalpur	Wheat	Quality seed material required	Seed production technique
8.	Hajipur	Hajipur	SenduariGhoshwar,HilalpurBhagwanpur, Alawalpur, PrataptandJadhua, Panapur Langa, Rampur nausahan	Paddy,Maize,Mustard,Tomato, Potato,Wheat Mushroom production,Quail production,Litchi Nursery, banana	Quality seed material, irrigation problem Plant Material replacement in banana. Pest Management in Mango. Quality seed material required in time. Economical weaker people Quality seed material Off season production Unemployed youth	Seed production technique for quality crop production. Training in Banana & Mango. Unemployed Rural youth Girdling technology Establishment of Nursery, Banana fiber Extraction
9.	Mahua	Raja pakar	Mukundpur, Sarsai	Quail	Availability of Quail chick	Hatchery to be established
10.	Bidupur	Bidupur	Dhobauli, Bidupur	Papaya,Litchi,Pointed gourd, Banana	Disease infestation in Papaya, Alternate bearing in Litchi Poor quality planting material,lots of pseudostem is produced and thrown away on road side	Cultivation of Papaya Girdling technology & Good quality planting material, FPO, SHG (marketing of bananana and mushroom)
11.	Dharhara	Bhagwanpur	Dharhara	Field crops-Mango,Litchi	1. Labour availability 2. Fruit drop 3. Alternate bearing	OFT,Use of machinery in cultivation Application of Boron Good quality planting material,Girdling technology
12.	Hilalalpur	Hajipur	Hilalpur,	Wheat,Potato	Lower land availability & productivity	OFT,Use of Nano fertilizer in Wheat & Potato
13.	Bakhari Barai	Rajapakar	Bakhari Barai	Rice,Wheat,Mustard	Good quality seed and deficiency of micro nutrient	OFT, Use of Sulphur and Boron fertilizer and supply of good quality seeds
14.	Vaishali	Vaishali	Chintamani pur	Honey	Honey production	FPO, SHG

2. c. Details of village adoption programme during 2023:

Name of the villages adopted by Sr. Scientist & Head and SMS (in year 2023) for its development and action plan

Name of village	Block	Action taken for development
Villages adopted by SMS (Plant protection)		
Madarna	Vaishali	Bee keeping and Integrated pest management technology
Rampur Ratnakar	Hajipur	Pulse seed production
Villages adopted by SMS (Horticulture)		
Sarsai	Rajapakar	Pruning in Guava orchard, Cultivation of Casicum, Good quality planting material of Pointed gourd, Effect of ARKA Vegetable Special and Arka Microbial Consortia in vegetable crops
Prataptand	Bhagwanpur	Regular bearing in Litchi, Effect of ARKA Vegetable Special and Arka Microbial Consortia in vegetable crops
Villages adopted by SMS (Crop Production)		
Loma Bejha, Faridpur	Hajipur, Rajapakar	Nano Urea application in Rice and Wheat
Maricha Ram	Bhagwanpur	Application of Vermicompost and Zinc in Rice
Villages adopted by SMS (Agriculture Engineering)		
Senduari	Hajipur	Food processing and preservation
Bidupur	Bidupur	Mulching in Tomato,Value addition in Banana
Villages adopted by SMS (Home Science)		
Gurmiya	Hajipur	Nutri garden
Hilalpur	Hajipur	Value addition

2.1 Priority thrust areas of KVKs

S. No	Thrust area
1.	IFS based model
2.	Vegetable seed Production
3.	Off season vegetables cultivation
4.	Yield increment in Vegetable crops by use of good planting material
5.	Cultivation of fruit (Mango, Litchi & Guava)
6.	Nursery raising
7.	Plant propagation techniques
8.	Fodder Production

9.	Poultry & Quail Production
10.	Integrated Pest Management in Crop, Fruit and Vegetable
11.	Integrated Disease Management in Crop, Fruit and Vegetable
12.	Mushroom & Mushroom Spawn Production
13.	Scientific Beekeeping
14.	Dairy &Goatry for Doubling Income
15.	Vermi compost Production
16.	Food processing and preservation
17.	Farm Mechanization
18.	Value Addition
19.	Women and Child care
20.	Nutrition and Health
21.	Nutri garden
22.	Nutrient Management
23.	Organic Farming
24.	Water Management
25.	Weed Management
26.	Training & Pruning
27.	Pulse Seed Production
28.	Yield increment in litchi crops by girdling.
29.	FPO,SHG

3. TECHNICAL ACHIEVEMENTS

3.1. Summary details of target and achievement of mandatory activities by KVK during the year 2023

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
12	12	85	14	3	0	0	58	10	72	13	85	15	15	300	85	42	0	0	130	53	215	95	310

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
192	182	4800	117	174	-	-	3170	1184	3287	1358	4645	4950	5347	19800	1235	2467	-	-	11110	5024	12345	7491	19836

Impact of capacity building											Impact of Extension activities										
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								
Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T
132	154	18	23	0	0	14	13	32	36	68	4940	5320	23	17	0	0	38	7	61	24	85

Seed production (q)			Planting material (in Lakh)		
Target (Crop and variety)	Achievement (q)	Sold (q)	Target (crop and variety)	Achievement	Sold (number)
Paddy(Rajendra Suwasni,Rajshree)	80.97	Kept in Farm Store	Mango	0.04	515
Potato(Kufri Khyati, Chipsona, Sinduri)	200.0	Kept in Cold Storage	Vegetable	0.45	581 (Chilli) ,40 (Brinjal),192 (Tomato) ,360 (Cauliflower), 135(Bottle Gourd),135 (Cucumber) ,114(Bitter Gourd), 175 (Sponge Gourd)
Tori(RH749)	5.5	Send to DSF, Dholi	Omamental plants	0.02	212
Finger Millet(RAU8)	2.9	Kept in Farm Store	Medicinal & Aromatic plants	0.05	24
Sesame (Krishna)	0.95	Kept in Farm Store	Litchi		
Total	**296.32**			**0.56**	

Livestock strains (in no's) and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
Chicks(200)	Quail Chicks- 150	Soil Samples (0.01)	0.00241
Egg (400)	Poultry Chicks- 115		
	Quail egg- 311		
	Poultry egg- 155		
	Fish (Recently Started)		

* Give no. only in case of fish fingerlings

3.2 ACHIEVEMENTS ON TECHNOLOGIES ASSESSED AND REFINED (OFT)

3.2. 1 Technology Assessed by KVK (Discipline wise)

A	**Technologies assessed under various crops (Cereal Crop Production)**			
	Thematic areas	**Number of the technologies (Technology Interventions)**	**No. of trials**	**No. of Locations**
1	Integrated Nutrient Management	2	14	14
2	Varietal Evaluation	0	0	0
3	Integrated Pest Management	0	0	0
4	Integrated Crop Management	0	0	0
5	Integrated Disease Management	0	0	0
6	Small Scale Income Generation Enterprises	0	0	0
7	Weed Management	0	0	0
8	Resource Conservation Technology	0	0	0
9	Farm Machineries	0	0	0
10	Integrated Farming System	0	0	0
11	Seed / Plant production	0	0	0
12	Post Harvest Technology / Value addition	0	0	0
13	Drudgery Reduction	0	0	0
14	Storage Technique	0	0	0
15	Others (Pl. specify)	0	0	0
16	Cropping Systems	0	0	0
17	Farm Mechanization	0	0	0
18	Others	0	0	0
	Total	**2**	**14**	**14**
B	**Technologies assessed under various crops (Hort crops.)**			
	Thematic areas	**Number of the technologies (Technology Interventions)**	**No. of trials**	**No. of Locations**
1	Integrated Nutrient Management	0	0	0
2	Varietal Evaluation	0	0	0
3	Integrated Pest Management	2	14	14
4	Integrated Crop Management	2	14	14

5	Integrated Disease Management	0	0	0
6	Small Scale Income Generation Enterprises	0	0	0
7	Weed Management	0	0	0
8	Resource Conservation Technology	0	0	0
9	Post-harvest Technology / Value addition	0	0	0
10	Others if any specify	1	7	7
	Total	**5**	**35**	**35**
C	**Technologies assessed under livestock & Fisheries by KVKs**			
	Thematic areas	**No. of technologies (Technology Interventions)**	**No. of trials**	**No. of locations**
1	Disease & Health Management	1	7	7
2	Breeding management/Evaluation of Breeds	0	0	0
3	Feed and Fodder management	1	7	7
4	Nutrition Management	0	0	0
5	Production and Management	0	0	0
6	Processing and Value addition	0	0	0
7	Fisheries management	0	0	0
8	Others (waste, ITK etc)	0	0	0
	Total	**02**	**14**	**14**
D	**Technologies assessed under miscellaneous enterprises by KVKs**			
	Thematic areas	**No. of technologies (Technology Interventions)**	**No. of trials**	**No. of locations**
1	Drudgery reduction	0	0	0
2	Entrepreneurship Development	0	0	0
3	Health and nutrition	0	0	0
4	Processing and value addition	1	7	7
5	Energy conservation	0	0	0
6	Small-scale income generation	0	0	0
7	Storage techniques	0	0	0
8	Household food security	0	0	0
9	Organic farming	0	0	0
10	Agroforestry management	0	0	0

11	Mechanization	0	0	0
12	Resource conservation technology	0	0	0
13	Value Addition	0	0	0
14	Others	0	0	0
	Total	**1**	**7**	**7**
E	**Technologies assessed under various enterprises for women empowerment**			
	Thematic areas	**No. of technologies (Technology Interventions)**	**No. of trials**	**No. of locations**
1	Drudgery Reduction	0	0	0
2	Entrepreneurship Development	0	0	0
3	Health and Nutrition	1	7	7
4	Value Addition	1	7	7
5	Others	0	0	0
	Total	**2**	**14**	**14**

3.2.2 OFT (All discipline)

OFT:-1 Plant Protection

- **Thematic area:** Integrated Pest Management
- **Problem definition/Name of OFT:** Management of Banana scarring beetle

1.	Title of On farm Trial (OFT)	Eco-friendly management of banana Scarring beetle (*Basileptasubcostatum Jacoby*)
2.	Problem diagnosed	Severe infestation of Banana Scarring beetle in Banana crop in Vaishali district
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	PF:-Chloropyriphos 20 EC @ 1ml/lit. TO1:- (i) Soil application of Chloropyriphos 20 EC @ 4 ml/lit. (ii) Bunch spraying with Acephate (0.11%) just after first hand opening followed by bunch cover with Polypropylene bag TO2:- (i) Soil application of Beauveria bassiana (1x 107 cfu/ml) @ 200 ml/plant (ii) Bunch spraying with Acephate (0.11%) just after first hand opening followed by bunch cover with Polypropylene bag
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OFT finalization workshop ATARI Patna
5.	Production system and thematic area	Integrated Pest Management
6.	Performance of the Technology with performance indicators	**Performance indicators:** (i) No. of Scars per fingure (ii) No. of scars/5 cm^2 leaf surface (iii) Mean fruit infestation (%) (iv) Bunch weight (Kg/Plant)
7.	Final recommendation for micro level situation	Soil application of Chloropyriphos 20 EC @ 4 ml/lit. + Bunch spraying with Acephate (0.11%) just after first hand opening followed by bunch cover with Polypropylene bag
8.	Constraints identified and feedback for research	No constraints
9.	Process of farmers participation and their reaction	Field visit, Interaction with farmers, Training and Demonstrations

Table: - Efficacy of different management practices modules against banana Scarring beetle (*Basileptasubcostatum Jacoby*)

Thematic area	Technological Options	No. of Scars per fingure	No. of scars/5 cm^2 leaf surface	Mean fruit infestation (%)	Bunch weight (Kg/Plant)	Area (ha)/Nos		Yield (ton/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs.ha)	Net Return (Rs./ha)	BC ratio
						Proposed	Actual					
Integrated Pest Management	**PF:-** Chloropyriphos 20 EC @ 1ml/lit.	10.8	12.2	11.5	14.50	-	01	25.0	1,25,000.00	2,90,000.00	1,65,000.00	2.32
	TO_1:- (i)Soil application of Chloropyriphos 20 EC @ 4 ml/lit. (ii) Bunch spraying with Acephate (0.11%) just after first hand opening followed by bunch cover with Polypropylene bag	3.6	7.65	7.6	17.95	-	01	38.0	1,10,000.00	3,75,000.00	2,65,000.00	3.40
	TO_2:- (i) Soil application of Beauveria bassiana (1x 107 cfu/ml) @ 200 ml/plant (ii) Bunch spraying with Acephate (0.11%) just after first hand opening followed by bunch cover with Polypropylene bag	4.2	9.73	9.2	16.35	-	01	32.0	1.15,000.00	3,25,000.00	2,10,000.00	2.82

Result:-The on farm trial conducted on eight different locations of farmer's field. In this trial it was recorded that Technology option 1 observed highest fruit yield (38.0 t/ha) followed by Technology option 2 (32.0 t/ha) and lowest yield in Farmer practices (25.0 t/ha). Bunch weight was recorded highest in Technology option 1 (17.95 kg/ha) followed by Technology option 2 (16.35 kg/ha) and lowest in Farmer practice (14.50 kg/ha). However No. of scars per figure, No. of scars/5cm2 leaf surface and mean fruit infestation (%) was recorded highest in farmer practice i.e 10.8, 12.2 and 11.5 respectively and lowest in Technology option 2 i.e. 4.2, 9.73 and 9.2 respectively. Net return was observed highest in Technology option 1 i.e Rs.2,65,000.00/ha while lowest in Farmer practice i.e Rs. 1,65,000.00/ha.

Photographs:

Plant Protection - OFT –2

- **Thematic area:** Integrated Pest Management
- **Problem definition/Name of OFT:** Sever infestation of fruit fly in cucurbits observed in this district and farmers are fully depend on conventional method of insecticide application

1.	Title of On farm Trial	Eco-friendly management practices to control fruit fly in cucurbits
2.	Problem diagnosed	Sever infestation of fruit fly in cucurbits observed in this district and farmers are fully depend on conventional method of insecticide application.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers practice-** Spray of any pesticides as per their knowledge **Technology option 1-** Mix Ethyl Alcohol-60 ml + Cue lure (P-Acetoxyl butanone-2)-40 ml + Malathion / DDVP-20 ml (*i.e.*, 6:4:2) @ 10 traps/ha **Technology option 2-** Bait Application Technique (BAT) spray liquid of 0.1% insecticide (Malathion) and 10% Jaggery or 10 % ripe banana or erect cue lure (Para Pheromone trap) @ 3 per acre to attract and trap male fruit files.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OFT Finalization workshop of Plant Protection, ATARI, Patna
5.	Production system and thematic area	Integrated Pest Management
6.	Performance of the Technology with performance indicators	• Mean no. of ovipositional punctures/fruit • Mean no. of maggots/fruit • Mean % fruit infestation • Yield (t/ha) • B:C ratio
7.	Final recommendation for micro level situation	Technological option 1 performed the best result among three options *i.e*16.45 t/ha fruit yield in sponge gourd, increase in fruit yield 60.95 % and minimum damage recorded in fruit.
8.	Constraints identified and feedback for research	No Constraints
9.	Process of farmers participation and their reaction	Awareness training, short lecture, group discussion demonstration and field visits.

Thematic area	Technological Options	Mean per cent of damaged fruit (%)	Mean no of maggot/fruit	Yield (t/ha)	Yield increase over control	Area (ha)/Nos		Cost of cultivation (Rs./ha)	Gross return (Rs.ha)	Net Return (Rs./ha)	BC ratio
						Proposed	Actual				
Integrated Pest Management	**Farmers practice-** Spray of any pesticides as per their knowledge	42.67	17.63	10.22	-	-	01	42000.00	153300.00	111300.00	2.65
	Technology option 1- Mix Ethyl Alcohol-60 ml + Cue lure (P-Acetoxyl butanone-2)-40 ml + Malathion / DDVP-20 ml (*i.e.*, 6:4:2) @ 10 traps/ha	15.40	8.10	16.45	60.95	-	01	35000.00	246750.00	211750.00	5.22
	Technology option 2- Bait Application Technique (BAT) spray liquid of 0.1% insecticide (Malathion) and 10% Jaggery or 10 % ripe banana or erect cue lure (Para Pheromone trap) @ 3 per acre to attract and trap male fruit files.bag	28.32	10.45	13.61	33.17	-	01	38000.00	204150.00	166150.00	3.18
	SEm(±)	0.16	0.07	0.58	-						
	CD (0.05)	0.49	0.18	1.72	-						

Results: The on farm trial conducted on eight different locations of farmer's field. In this trial it was recorded that technology option 1 observed the highest yield followed by technology option 2 and Farmer practice *i.e.* (16.45 t/h), (13.61 t/ha) and (10.22 t/ha) respectively. Mean per cent of damaged fruit (%) was recorded highest in Farmer practices followed by technology option 2 and lowest in technology option 1 *i.e.*42.67%, 28.32% and 15.40% respectively. Mean no. of maggot/fruit was recorded highest in Farmer practices, followed by Technology option 1 i.e. 17.63%, 10.45% and 8.10 respectively. However Net return was observed highest in Technology option 1 (Rs.211750.00) followed by Technology option 2 (Rs. 166150.00) and lowest in Farmer practice (Rs. 153300.00)

Photographs:

Horticulture OFT –3

Thematic area: Fruit (Regulation of flowering and fruiting in litchi)
Problem definition/Name of OFT: Irregular bearing at young stage of the plant in all litchi cultivars is a phenomenon constraint in general and alternate bearing in cultivar of China group in particular.

1.	Title of On farm Trial	**Bearing regulation in litchi through girdling of primary branch.**
2.	Problem diagnosed	Irregular bearing at young stage of the plant in all litchi cultivars is a phenomenon constraint in general and alternate bearing in cultivar of China group in particular.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers practice-** No girdling **Technology option 1-** Circular **g**irdling 2 mm diameter on 50% primary branches during 1st week of September. **Technology option 2-** Circular girdling 4 mm diameter on 50% primary branches during 1st week of September.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-NRC on Litchi Muzaffarpur, AICRP on fruits
5.	Production system and thematic area	Fruit (Regulation of flowering and fruiting in litchi)
6.	Performance of the Technology with performance indicators	• Days to flowering after girdling • Fruits per panicle • Fruit retention percentage • Yield • Fruit weight
7.	Final recommendation for micro level situation	Among all the treatments Technology Option 1 (Circular **g**irdling 2 mm diameter on 50% primary branches during 1st week of September) was found to be the best and gave maximum yield.
8.	Constraints identified and feedback for research	No Constraints
9.	Process of farmers participation and their reaction	Field visit, Interaction with farmers, Training and Demonstrations

Thematic area	Technology options with detailed treatments	Area (ha in crop & Fodder)/ Nos (in livestock)		Days to flowering after girdling	No of fruits per panicle	Fruit retention percentage	Fruit weight (g)	Yield (kg/plant)	Days to flowering after girdling
		Proposed	Actual						
Fruit (Regulation of flowering and fruiting in litchi)	**Farmers practice**- No girdling	0.2	0.2	**43.00**	**30.31**	**32.11**	**14.99**	**8.52**	**43.00**
	Technology option 1- Circular girdling 2 mm diameter on 50% primary branches during 1st week of September.			**75.39**	**47.31**	**27.25**	**18.44**	**30.63**	**75.39**
	Technology option 2- Circular girdling 4 mm diameter on 50% primary branches during 1st week of September			**81.73**	**26.50**	**35.31**	**17.82**	**28.45**	**81.73**

Results: The data in the table given revealed that girdling treatments significantly induced the flowering in litchi during the first year as compared to control. Within Treatments, no siognificxant differences were observed. The results inbdicated that litchi trees which were subjected to different severity and use of girdling have more flowering intensity, fruit set and fruit retention anfd it also reduced fruit drop as compared to control. The current research revealed that the girdling of 50% of primary branches+ 2mm wide during 2nd, 3rd week of September. From 1st year itr can be suggested that girdling 2mm diameter in 50% primary branches was found to be beneficial for the farmers

Photographs:

OFT on girdling of primary branch in Litchi

Horticulture – OFT-4

Thematic area: Integrated Disease Management

Problem definition/Name of OFT: Wilt problem in Brinjal is identified in Vaishali district of Bihar and therefore there is reduction in yield.

1.	Title of On farm Trial	Assessment of microbial consorita against wilting in Solanaceous crops (Brinjal)
2.	Problem diagnosed	Wilt problem in Brinjal is identified in Vaishali district of Bihar and therefore there is reduction in yield.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers practice-** Chemical Pesticides **Technology option 1-** IIHR consortia (Arka microbial consortia) **Technology option 2-** NRC Litchi consortia
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR, Banglore, NRC, Litchi, Muzaffarpur
5.	Production system and thematic area	Integrated Disease Management
6.	Performance of the Technology with performance indicators	• Initial plant population • First wilt incidence (days after transplanting) • Wilting percentage at 15, 30, 45, 60 & 75 DAT • Yield (q/ha) • Economics (Rs./ha)
7.	Final recommendation for micro level situation	Technology option 2 (NRC Tricoderma) was found better than other options and achievmaximum yield
8.	Constraints identified and feedback for research	No constraints
9.	Process of farmers participation and their reaction	Field visit, Interaction with farmers, Training and Demonstrations

Thematic area	**Technology options with detailed treatments**	**Area (ha in crop & Fodder)/ Nos (in livestock)**		**Initial plant population**	**First wilting (days)**	**Wilting of plants (%)**				
		Proposed	**Actual**			15 days	30 days	45 days	60 days	75 days
Integrated Disease Management	**Farmers practice-** Chemical Pesticides)	0.2		18	6.2	7.1	12.7	28.2	36.6	44.4
	Technology option 1- IIHR consortia (Arka microbia consortia)			18	3.7	3.6	8.2	13.6	17.4	21.3
	Technology option 2- NRC Litchi consortia			18	2.2	1.7	4.8	9.4	12.8	18.5

Results: The results reveled that the disease incidence was less in the plants treated /seedlings treated with tricoderma since it significantly suppress the growth of plants pathogenic micro organisms and regulate the rate of plant growth. The secondary metabolites secreted by tricoderma sapp suppress the growth of pathogenic micro-organisms and also stimulates the plant growh.Yield as well as B:C ratio is more in the plants trated with consortia.AMC is carries based product which contains Nitrogen fixing,Phosphoros,Zinc solubilizing and plant growth promoting microbes in a single formulation. Hence farmers need not applying Nitrogen fixing Phosphorous solubilizing and growth promoting bacteria.Inoculants individually which incases less cost of cultivation.Therefore increseing the B:C ratio increses yield by 5-15 % as well.

Photographs:



OFT on microbial consorita against wilting in Solanaceous crops (Brinjal)

Agricultural Engineering - OFT -5

Thematic area: Food processing and preservation

Problem definition/Name of OFT:-Self life*of Oyster* mushroom is poor

1.	Title of On farm Trial	Assesment of different packaging materials on self life of *Oyse*r mushroom.
2.	Problem diagnosed	Self life*of Oyster* mushroom is poor
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers practice-** Farmer's practice **Technology option 1-** Suitable punnet **(**Washed in plain water, pre-treated with 0.05% KMS and dried in solar dryer) **Technology option 2-** Biodegradable 40-60 micron or 100-150 gauge (Washed in plain water, pre-treated with 0.1 % Citric acid and 0.05% KMS and dried in solar dryer)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OFT Finalization workshop at RPCAU,Pusa
5.	Production system and thematic area	Food processing and preservation
6.	Performance of the Technology with performance indicators	• Colour • Rehydration • Sensory analysis
7.	Final recommendation for micro level situation	The technology option 2 with recommended treatment and Bio degradable LDPE bag increased shelf life of dehydrated mushroom.
8.	Constraints identified and feedback for research	No Constraints
9.	Process of farmers participation and their reaction	Training

Thematic area	**Technology options with detailed treatments**	**Area (ha in crop & Fodder)/ Nos (in livestock)**		**Rehydration Ratio**				**Colour**				**Overall acceptability**			
		Propsed	**Actual**	Initial	30 days	60 days	90 days	Initial	30 days	60 days	90 days	Initial	30 days	60 days	90 days
Food processing and preservation	**Farmers practice-** Farmer's practice	7	7	2.91	2.68	2.46	2.29	6.4	6.2	6.1	5.9	6.3	6.2	5.9	5.8
	Technology option 1- Suitable punnet **(**Washed in plain water, pre-treated with 0.05% KMS and dried in solar dryer)	7	7	3.79	3.71	3.60	3.54	7.5	7.3	7.0	6.9	7.3	7.1	6.9	6.7
	Technology option 2- Biodegradable 40-60 micron or 100-150 gauge	**7**	**7**	**3.85**	**3.79**	**3.71**	**3.59**	**8.7**	**8.5**	**8.3**	**8**	**8.5**	**8.3**	**8.0**	**7.8**

Results: The results showed that the out of the three parameters recorded rehydration ratio, colour and overall acceptability significantely effects the results.treatments have nonsignificant effects on rehydration ratio.it is evident from the results that biodegradable LDPE bag with treatments of(O.1% citric acid and 0.05% KMS),was for storage of mushrool till 3 months.this way of packaging will enhance the shelf life of dehydrated mushroom. Therefore, Technology option (Biodegradable 40-60 micron or 100-150 gauge(Washed in plain water, pre-treated with 0.1 % Citric acid and 0.05% KMS and dried in solar dryer) may be best option to increase shelf life of oyster mushroom
The technology option 2 with recommended treatment and Bio degradable LDPE bag increased shelf life of dehydrated mushroom




OFTonpackaging materials self life of *Oyser* mushroom

Agricultural Engineering – OFT-6

Thematic area- Water management
Problem definition/Name of OFT: Inadequate weed control, Soil moisture management, Soil nutrient deficiency in balance soil temperature and cost effectiveness.

1.	Title of On farm Trial	Assesmentof low-cost Mulching in vegetable crop production.
2.	Problem diagnosed	Due to weed the yield of Tomato decreases affecting the net return.Inadequate weed control, Soil moisture management, Soil nutrient deficiency in balance soil temperature and cost effectiveness.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers practice-** No mulching use **Technology option 1-** Banana leaf mulch **Technology option 2-** Crop residue mulch
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	RPCAU, Pusa
5.	Production system and thematic area	Water management
6.	Performance of the Technology with performance indicators	• Soil moisture • No.of irrigation • Weed density • Yield • Gross income • Net income • BC ratio
7.	Final recommendation for micro level situation	Technology option 1 (Banana leaf mulch) is increased the yield and high BC ratio (1.72) the use of this mulch increased the soil moisture 22.61% and reduced weed density
8.	Constraints identified and feedback for research	No constraints
9.	Process of farmers participation and their reaction	Training

Thematic area	**Technology options with detailed treatments**	**Area (ha in crop & Fodder)/ Nos (in livestock)**		**Yield (q/ha)**	**Cost of cultivation (Rs./ha)**	**Gross return (Rs/ha)**	**Net return (Rs./ha)**	**BC ratio**
		Proposed	**Actual**					
Soil health management	**Farmers practice-** No mulching use	0.2	0.2	253.7	154700	245360	90660	1.58
	Technology option 1- Banana leaf mulch			418.7	184500	317340	132840	1.72
	Technology option 2- Crop residue mulch			413.7	178300	305430	127130	1.71

Results: The results indicats that out of all the parameters recorded the soil moisture(%) at 15 cm depth, No. of irrigation, weed density & yield effects the the results.the yield of tomato in farmers field is 253.7 q/ha was significantely low as compared to other two treatments. The gross cost in banana leaf mulching is higher but increase in yield 418.7 q/ha which is increased the B:C ratio.since the use of banana leaf mulcing has been beneficial to farmers in terms of yield & B:C ratio.Thus it is recommended to farmers field. Technology option 1 (Banana leaf mulch) is increased the yield and high BC ratio (1.72) the use of this mulch increased the soil moisture 22.61% and reduced weed density.Technology option 1 (Banana leaf mulch) is increased the yield and high BC ratio (1.72) the use of this mulch increased the soil moisture 22.61% and reduced weed density.

OFT Field Visit

Home Science - OFT –8

Thematic area- Value addition

Problem definition/Name of OFT: Mushroom is a highly perishable food item with low shelf life. Thus, people consume it mostly as fresh vegetable. Therefore, biscuit prepared from mushroom is way to increase it shelf life with high nutrient content

1.	Title of On farm Trial	Assessment of preparation methods of Mushroom Biscuit for more shelf life, enhancement of nutrition & income
2.	Problem diagnosed	Mushroom is a highly perishable food item with low shelf life. Thus, people consume it mostly as fresh vegetable. Therefore, biscuit prepared from mushroom is way to increase it shelf life with high nutrient content.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmer's Practice-** Local people consume fresh mushroom as such as vegetables. **Technology Option-01** Preparation of mushroom biscuit (90% Maida, 10% Mushroom powder) **Technology Option-02** -Preparation of mushroom biscuit with ragi (70% Maida, 10% Mushroom powder & 20% Ragi)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-Directorate of Mushroom Research Chambaghat, Solan
5.	Production system and thematic area	Value addition
6.	Performance of the Technology with performance indicators	1. Sensory evaluation (5 point hedonic scale) 2. Shelf life
7.	Final recommendation for micro level situation	The treatment TO2 mushroom biscuit with ragi (70% Maida, 10% Mushroom powder & 20% Ragi) recorded higher score for color and appearance, flavor, crispiness, Taste and overall acceptability up to 60 days of storage. Therefore, it is recommended for farmers.
8.	Constraints identified and feedback for research	No constraints
9.	Process of farmers participation and their reaction	Field visit, Interaction with farm women, Training and Demonstrations

Thematic area	Technology options with detailed treatments	Area (ha in crop & Fodder)/ Nos (in livestock		Color & appearance			Flavor			Crispiness			Taste			Overall acceptability		
		Proposed	Actual	Initial	30 days	60 days	Initial	30 days	60 days	Initial	30 days	60 days	Initial	30 days	60 days	Initial	30 days	60 days
Value addition	**Farmer's Practice-** Local people consume fresh mushroom as such as vegetables.	**7**	**7**	3.84	3.42	3.01	3.92	3.62	3.15	3.80	3.25	2.96	3.96	3.68	3.15	3.88	3.49	3.06
	Technology Option-01 Preparation of mushroom biscuit (90% Maida, 10% Mushroom powder	**7**	**7**	4.20	3.80	3.24	4.41	4.00	3.50	4.27	3.85	3.14	4.35	3.75	3.25	4.30	3.85	3.28
	Technology Option-02 - Preparation of mushroom biscuit with ragi (70% Maida, 10% Mushroom powder & 20% Ragi	7	**7**	4.50	4.24	3.94	4.60	4.15	3.75	4.55	4.00	3.78	4.56	4.01	3.64	4.55	4.12	3.77

Results:

The purpose of the study was to prepare cookies from locally available raw material to improive its quality by adding mushroom and millet (Ragi).Mushrrom and ragi were made powder form to increase in high protein fiber and mineral substance. The treatment TO2 mushroom biscuit with ragi (70% Maida, 10% Mushroom powder & 20% Ragi) recorded higher score for color and appearance, flavor, crispiness, Taste and overall acceptability up to 60 days of storage. Therefore Therefore, it is recommended for farmers.


OFT on Mushroom Biscuit for more shelf life, enhancement of nutrition &incomcome

Animal Science – OFT-09

Thematic area- Animal health management

Problem definition/Name of OFT: Mastitis, Slippery floor, more standing time, Lower body condition score

1.	Title of On farm Trial	Effect of rubber mat for welfare and production performance of cows
2.	Problem diagnosed	Mastitis, Slippery floor, More standing time, Lower body condition score
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers practice-** Farmer's practice (earthen flooring) **Technology option 1-** Bricks flooring **Technology option 2-** Bricks flooring + Rubber mat flooring
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	National Dairy Research Institute, Karnal
5.	Production system and thematic area	Production management
6.	Performance of the Technology with performance indicators	1. Milk yield (litre) 2. Sitting time (minutes) 3. Somatic cell count (10^5 per ml) 4. Rumination (per hour)
7.	Final recommendation for micro level situation	In Technological Option 2 (Bedding with brick floor+ Rubber mat) decreases the somatic cell count, increases the sitting and rumination time significantly.
8.	Constraints identified and feedback for research	No Constraints
9.	Process of farmers participation and their reaction	Field visit, Interaction with farmers, Training and Demonstrations

Table:

Thematic area	**Technology options with detailed treatments**	**Area (ha in crop & Fodder)/ Nos (in livestock)**		**Sitting (minute/day)**	**Rumination (minute/day)**	**Somatic cell count (Cells X 10^5/ml)**	**Sitting (minute/day)**
		Proposed	**Actual**				
Production management	FP (Earthen floor)	7	7	560^{a} ±5.45	490^{a} ±3.30	2.1^{a} ±0.41	560^{a} ±5.45
	T1 (Brick floor)	7	7	531^{b} ±6.47	434^{b} ±5.46	1.9^{a} ±0.28	531^{b} ±6.47
	T2 (Brick floor+Rubber mat)	7	7	**585^{c} ±4.72**	**522^{c} ±4.45**	**1.5^{b} ±0.37**	**585^{c} ±4.72**

Results: The Use of rubber mats along with brick flouring rubber mat flouring over bricks have decresed somatic cell count significantly (p=0.005) might be due to teat pove is not directly come to ground or there is reduction in entry of pathogens to teat open after milking however in brick flour damaged to teat notice in experiment and in earhen flouring there is wet surface and teat comes in contact of soil during urin prevents to entry of pathogens to treat animal.

OFT on Effect of rubber mat

Crop Production- OFT 10

- **Thematic area:** Nutrient Managament
- **Problem definition/Name of OFT:** Improvement of Nitrogen Use Efficiency in Wheat (*Triticum aestivum*)

1.	Title of On farm Trial (OFT)	Improvement of Nitrogen use efficiency in Wheat
2.	Problem diagnosed	Excessive use of chemical fertilizer and Spiralling price of Urea leads to increase in cost of cultivation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers practice-** RDF (100:40:20) Kg/ha **Technology option 1-** 50% of RDN & 100% PK + Nano urea @4ml/lt. water (Single spray at 35 DAS). **Technology option 2-** 50% of RDN & 100% PK + 2 spray of nano urea at 35 DAS) and (60-65 DAS) @ 4ml/lt. water
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Proceeding of OFT finalization workshop at BAU, Sabour (1-3 September, 2022)
5.	Production system and thematic area	Integrated Nutrient Management
6.	Performance of the Technology with performance indicators	• Yield/ha • No. of effective tillers/m^2 • 1000 grain weight (g) • Panicle weight (g) • Straw yield (q/ha) • Economics
7.	Final recommendation for micro level situation	The use of nano urea has not been beneficial both in terms of yield and profit, thus spraying of nano-urea should not be recommended for Wheat under the agro-climatic conditions of Vaishali.
8.	Constraints identified and feedback for research	Nano urea is more intensively absorbed through stomatal pores in leaves, thus performs better for broad leaf crops and wheat being a narrow leaf plant has probably failed to perform with nano-urea application.
9.	Process of farmers participation and their reaction	Training and Short lecture, group discussion, field visits

Thematic area	**Technology options with detailed treatments**	**Area (ha in crop & Fodder)/ Nos (in livestock)**		**Yield (q/ha)**	**Cost of cultivation (Rs./ha)**	**Gross return (Rs/ha)**	**Net return (Rs./ha)**	**BC ratio**
		Proposed	**Actual**					
Nutrient Management	**Farmers practice-** RDF (100:40:20) Kg/ha	0.2	0.2	45.2	40664	97050	56386	2.38
	Technology option 1- 50% of RDN & 100% PK + Nano urea @4ml/lt. water (Single spray at 35 DAS)			40.5	38027	87384	49357	2.29
	Technology option 2- 50% of RDN & 100% PK + 2 spray of nano urea at 35 DAS) and (60-65 DAS) @ 4ml/lt. water			42.5	39900	94555	54655	2.36

Growth and Yield Parameters:

Results: The results indicate that out of all the parameter recorded, grain yield and straw yield produced significantly varied results, rest all other parameter showed insignificant difference. The grain yield and straw yield obtained in Farmer's Practice (45.2 q/ha and 52.7 q/ha, respectively) was significantly higher as compared to other two treatments involving nano urea sprays.

Conclusion:-It is evident from the results that Nano fertilizer has no effect on enhancing the yield and profitability obtained from rice. Moreover, the use of nano urea has added to the cost of cultivation and reduced the net profit and BC ratio.

Visit of Scientist in OFT Demonstration Plot

Crop Production OFT 11

- **Thematic area :**Nutrient Management
- **Problem definition/Name of OFT:** Improvement of Nitrogen use efficiency in Rice (*Oryza sativa*)

1.	Title of On farm Trial (OFT)	Improvement of Nitrogen use efficiency in Rice (*Oryza sativa)*
2.	Problem diagnosed	Excessive use of chemical fertilizer and Spiralling price of Urea leads to increase in cost of cultivation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers practice-** RDF (100:40:20) Kg/ha **Technology option 1-** 50% of RDN & 100% PK + Nano urea @4ml/lt. water (Single spray at 35 DAS). **Technology option 2-** 50% of RDN & 100% PK + 2 spray of nano urea at 35 DAS) and (60-65 DAS) @ 4ml/lt. water
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Proceeding of OFT finalization workshop at BAU, Sabour (1-3 September, 2022)
5.	Production system and thematic area	Integrated Nutrient Management
6.	Performance of the Technology with performance indicators	• Yield (q/ha) • No. of effective tillers/m^2 • 1000 grain weight (g) • Panicle weight (g) • Straw yield (q/ha) • Economics
7.	Final recommendation for micro level situation	The use of nano urea has not been beneficial both in terms of yield and profit, thus spraying of nano-urea should not be recommended for Rice under the agro-climatic conditions of Vaishali.
8.	Constraints identified and feedback for research	Nano urea is more intensively absorbed through stomatal pores in leaves, thus performs better for broad leaf crops and wheat being a narrow leaf plant has probably failed to perform with nano-urea application.
9.	Process of farmers participation and their reaction	Training and Short lecture, group discussion, field visits

Growth and Yield Parameters:

Thematic area	Technology options with detailed treatments	Area (ha in crop & Fodder)/ Nos (in livestock)		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Proposed	Actual					
Nutrient Management	**Farmers practice-** RDF (100:40:20) Kg/ha	0.2	0.2	45.24	29998	65850	35852	2.19
	Technology option 1- 50% of RDN & 100% PK + Nano urea @4ml/lt. water (Single spray at 35 DAS)			40.55	32785	60350	27565	1.84
	Technology option 2- 50% of RDN & 100% PK + 2 spray of nano urea at 35 DAS) and (60-65 DAS) @ 4ml/lt. water			42.78	33254	61236	27982	2.18

Growth and yield parameters:

Results: The results indicate that all the parameters recorded non-significant results. The grain yield and straw yield obtained in Farmer's Practice (45.24 q/ha and 68.87 q/ha, respectively) was higher as compared to other two treatments involving nano urea sprays.

Conclusion:-It is evident from the results that Nano fertilizer has no effect on enhancing the yield and profitability obtained from rice. Moreover, the use of nano urea has added to the cost of cultivation and reduced the net profit and BC ratio.

Spraying of nano fertilisers at 30-35 DAS

Crop Production: OFT 12

- **Thematic area :**Crop Diversification
- **Problem definition/Name of OFT:** Diversification of rice-based cropping systems.

1.	Title of On farm Trial (OFT)	Diversificationof rice-based cropping systems.
2.	Problem diagnosed	Low profitability of existing cropping system
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers practice-** Rice- Wheat (Prominent cropping system of district) **Technology option 1-** Rice- Maize+ Potato **Technology option 2-** Rice-Maize+Vegetable Pea **Technology option 3-** Rice-Wheat-Greengram
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Proceeding of OFT finalization workshop at BAU, Sabour (1-3 September, 2022)
5.	Production system and thematic area	Crop diversification
6.	Performance of the Technology with performance indicators	• Soil data before and after (Ph, EC, OC, NPK) • Rice Equivalent Yield (q/ha) of all sole crops and intercropping • Cost of cultivation
7.	Final recommendation for micro level situation	Ongoing
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Training and Short lecture, group discussion, field visits

3.3 ACHIEVEMENTS OF FRONTLINE DEMONSTRATIONS (FLD)

A. Overall achievements of FLDs conducted during the year 2023

S.No	Crop category	No. of FLD	Area	No of beneficiaries	Yield in Demo (q/ha)	Yield in check (q/ha)
1.	Cereals	02	20	50	46.85 (Rice) Ongoing (Wheat)	44.75 (Rice) Ongoing (Wheat)
2.	Oil Seed (Mustard)	01	15	20	18.62	16.5
3.	Pulses	01	15	20	16.55	14.22
4.	Horticulture Crops	02	2.16	200	23(Marigold)	15
5.					175(Pointd gourd)	40
6.	Other crops(Improved varieties of vegetables)	01	0.625	25	198	159
7.	Hybrid crop					
8.	Livestock (Poutry)	01	-	28	150 Eggs per Year	95
9.	Fisheries					
10.	Other enterprises(Mineral Mixture)	01	-	24	3.5 kg milk/day/goat	2.5 kg milk/day/goat
11.	(vegetables) Fruit fly trap	01	5	25	125	94
12.	(Vegetables) Pheromone Trap	01	5	25	150	115
13.	(Vegetables) Yellow sticky trap	01	5	25	300	223
14.	Hermtic bag	01	-	20	Grain damage (0.5%) Thousand grain weight (42.6 gm)	Grain daage(9 %) Thousand grain weight(44.5gm)
15.	Mushroom(Oyster Mushroom)	01	-	20	7	6
16.	Women empowerment					
17.	Farm Machinery (Thumb Knife cutter)	01	-	7	Harvesting capacity(13.65 kg/h)	Harvesting capacity(9.65 kg/hr)
	Grand Total	**15**	**67.785 ha**	**489**		

Photographs:

Demonstration of King Oyster Mushroom

Demonstration of Hermatic Bags

Demonstration of Pheromone trap

Demonstartion of inputs (Vermicompost and Zinc) for rice crop under FLD

Demonstration of Mineral Mixture under FLD

Demonstration of Pointed Gourd Variety (Rajendr Parwal-1 planting material

B. Details of FLDs conducted during the year 2023

1. Cereals

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
Rice	Nutrient Management	Effect of Vermicompost and Zinc in Rice	25	10	46.85	44.75	4.69	29400	62350	32950	2.12	28800	59320	30520	2.05
Wheat	Weed Management	Weed Managaement in Wheat using Sulphosulfuron	Ongoing												
Total			**25**	**10**											

2. Oilseeds

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
Mustard	Nutrient Management	Sulphur application in Mustard	20	15	18.65	16.50	13.03	21000	65550	44550	3.11	22445	65000	42555	2.89
Total			**20**	**15**											

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

3. Pulses

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
Lentil	Nutrient management	Biofertilizer (Rhyzobium) application in lentil	20	15	16.55	14.22	16.38	23583	68863	45280	2.92	24939	66089	41150	2.65
		Total	**20**	**15**											

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

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

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
Marigold	Yield Increment	Pinching technology in marigold	10	2.8 ha	23	15	53.33	1.71	6.75	5.03	2.9	1.59	4.4	2.8	1.7
Pointed gourd	Yield in increment	Rajendra Parwal-1	10	200 Nos.	175	140	25 %	4,90,000	7,00,000	2,10,000	1.43	5,10,000	6,12,000	1,02,000	1.2
Vegetable crops	Improved quality of fruits	Arka Vegetable Special and Arka Mcrobial Consortia	ongoing												
	Total		**20**	**2.8 ha /200 No.**											

* 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.

5. Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cucumber, Pumpkin, Okra, Brinjal, Bitter gourd, Amaranthus	Household food security	Improved variety seed	35	1	198	159	18.23	4.5% disease incidence	9% disease incidence	22000	97000	75000	4.4	24500	78000	53500	3.18
Brinjal	Integrated Pest Management	Pheromone trap	25	05	150	115	30.43	6% (Insect infestation)	20% (Insect infestation)	53000	332000	279000	4.32	55000	265000	210000	3.06
Cucurbitaceous	Integrated Pest Management	Fruit fly trap	25	05	125	94	32.97	5% (Insect infestation)	25% (Insect infestation)	21000	183000	162000	4.23	23000	165000	142000	3.12
Cauliflower	Integrated Pest Management	Pheromone trap	25	05	250	180	38.88	5% (Insect infestation)	30 % (Insect infestation)	34840	72912	38072	2.09	35500	60700	25200	1.70
Cucurbitaceous	Integrated Pest Management	Fruit fly trap	Ongoing														
		Total	**128**	**16 ha**													

6. Demonstration details on crop hybrid varieties

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

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

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

** BCR= GROSS RETURN/GROSS COST

7. Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Buffalo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Poultry	Poultry Production	Improved Poultry Breed Van raja	25	25	150 Eggs per Year	95	57.89	1.75 kg	1.3 kg	1460	2300	840	1.575	1460	1640	180	1:12
Rabbitry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sheep and goat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Duckery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (Goat)	Feed management	Use of Mineral mixture for milk production	24	24	**3.5 kg milk/day/goat**	**2.5 kg milk/day/goat**	40 %	-	-	3250	5020	1770	1.54	3210	4500	1290	1.40
Total			**49**	**49**													

* 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

8. Fisheries

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

9. Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Enterprise development Oystrous sp.	25	25	620 kg	250 kg	148	-	-	22500	108350	85850	4.81	8500	48000	39500	5.64
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (Hermatic bag)	Post harvest technology	20	100 Nos													
Total		**45**	**125 Nos**													

* 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

10. Women empowerment

Name of technology	No. of demonstrations	Name of technology	Observations		No. of Beneficiaries
			Check	Demonstration	
Women					
Drudgery Reduction					
Enterprises					
Farming System					
Health and nutrition					
Kitchen Garden					
Nutrigarden	35	Improved varieties of vegetable seed	159 q/ha	198 q/ha	35
Storage Technique					
Value addition					
Women Empowerment					
Others					

Total - Women	**35**				**35**
Children					
Health and nutrition					
Others					
Total - Children					
Other if any					
Total others					
Grand Total	35	0			**35**

11. Farm implements and machinery

Category	**No. of FLDs**	**Name of the implement**	**Crop**	**No. of Farmer**	**Area (ha)**	**Filed observation (output/man hour)**		**% change in major parameter**	**Labor reduction (man days)**	**Cost reduction (Rs./ha or Rs./Unit)**
						Demonstration	**Check**			
Sowing and planting tools and machineries										
Total Sowing and planting Machineries										
Intercultural operation tools and machineries										
Irrigation management tools and machineries										
Plant protection tools and machineries										
Harvesting tools and machineries										
Postharvest processing tools and machineries										
Total mechanization tools and machineries										
Others										
Total of Others										

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

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	12.10.2023	01	33	Scientists visited farmers field to monitor the impact of vermicompost and Zinc in Rice crop.
		17.03.2023	01	35	Integrated Pest Management Technology demonstration
		04.05.2023	02	30	Integrated Pest Management Technology demonstration
		25.06.2023	01	32	Monitoring of Vanraja chicks
		25.05.2023	01	45	Scientist visited farmers field and demonstrated the mineral mixture in Goatary production which was liked by the farmers.
		30.12.2023	02	35	Demonstration of hermatic bag
2.	Farmers Training	22.07.2023	01	20	Importance of Vermicompost and Zinc in rice was communicated to farmers.
		20.02.2023	01	14	Improved variety of different vegetable crops
		15.11.2023	01	06	Application of AVS and AMC in Vegetable crops
		22.11.2023	03	12	Girdling technology in Litchi
		25.10.2023	01	33	Use and benefits of hermatic bag for storage
		07.12.2023	01	35	Use and benefits of hermatic bag for storage
		5.8.2023	01	43	Cropping in kitchen garden
3.	Media coverage		05		
4.	Training for extension functionaries	14.10.2023	01	215	Importance of Vermicompost and micronutrient Zn was communicated to ATMs, BTMs and ACs.

Technical Feedback on the demonstrated technologies (if any)

Sl. No	Crop	Feed Back
1.	Marigold	Double pinching at 30 & 40 days gives higher BC ratio in the Vaishali district of Bihar and therefore this is recommended to the farmers for higher returns
2.	Microbial Consortia and Trichoderma	Microbial Consortia was found to be more effective as well gives more yield with improved quality of fruits
3.	Girdling Technology in litchi	Girdling at 2 mm diameter on 50 % primary branches was found to be beneficial for the farmers
4.	Rice (Vermicompost and Zinc in Rice)	Vermicompost being organic in nature has benefitted plants along with improved the conditions of soil and addition of micronutrient Zn has kept the rice plants healthy and has positive impact on yield.
5.	Hermatic bag	It prevents the insects and reduces storage loss. It preserves the product without use of pesticides.
6.	Fruit fly trap	It is very cost effective and eco-friendly management practice of fruit fly in Fruit as well as vegetable
7.	Pheromone trap	Cost effective and eco-friendly management practice of brinjal fruit and shoot borer and Tobaco caterpillar
8.	Hermatic bag	It prevents the insects and reduces storage loss. It preserves the product without the use of pesticides.
9.	Kitchen garden	Availability of vegetables at low cost at household level
10.	Oyster Mushroom	It is nutritious and improves the dietary intake of farmers and farm women.
11.	Teat cup dip with solution	This is low cost and significantly reduce the somatic cell count.

A. PERFORMANCE OF THE DEMONSTRATION UNDER CFLD ON PULSE AND OILSEED CROPS (CFLD)
(During Kharif, Rabi and Summer)

1. 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 (Rai)	Local variety	10.54	15.57	11.25	18-25	Rajendra suflam + Application of Sulphur, Boron, Zinc and Imidacholoropid	58	20	20.42	16.00	18.20	-	-	(-) 27.16
2.	Mustard (Rai)	Local variety	10.50	-	-	-	DRMR 150-35+ Application of Carbendazim, pendimethalin, sulphur, boron, zinc	150	60	Ongoing					

							and Imidacholoropid.								
3.	Lentil	Local variety	15.5	9.34	9.34	18-20	IPL 316 + Seed treatment with Rhizobium, application of pendimethalin, sulphur, boron and zinc.	38	20	18.00	14.50	16.25	-	-	(-) 18.75
4.	Lentil	Local variety	15.5	-	-	18-20	IPL 316 + Seed treatment with Rhizobium and PSB, application of sulphur, boron and zinc.	40	16	Ongoing					
5.	Moong	Local variety	8.2	8.1	8.0	13-16	Sikha+ Seed treatment with Rhizobium and PSB, application of pendimethalin, boron, sulphur and zinc	41	20	8.2	5.	Moong	Local variety	8.2	8.1

2. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1.	Rajendra suflam + Application of Sulphur, Boron, Zinc and Imidacholoropid	17500.00	48750.00	31250.00	2.78	20500.00	65400.00	44900.00	3.19
2.	DRMR 150-35+ Application of Carbendazim, pendimethalin, sulphur, boron, zinc and Imidacholoropid								
3.	IPL 316 + Seed treatment with Rhizobium, application of pendimethalin, sulphur, boron and zinc	18520.00	38680.00	20160.00	2.08	25460.00	62505.00	37045.00	2.45
4.	IPL 316 + Seed treatment with Rhizobium and PSB, application of sulphur, boron and zinc.								
5.	Sikha+ Seed treatment with Rhizobium and PSB, application of pendimethalin, boron, sulphur and zinc	26500.00	51550.00	25050.00	1.94	27450.00	69749.00	42299.00	2.5

3. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1.	Mustard (Rajendra suflam)	36400	10	35	12	-	Education of the children, improvement of living standard	35
2.	Musturd (DRMR 150-35)	Ongoing						
3.	Lentil (IPL 316)	32500	10	50	16	-	Education of the children, improvement of living standard	36

B. Pulses/Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	Improved variety of Mustard (Rajendra Sufalam), Lentil (IPL 316), Moong (Sikha)	Very much appreciated due to less incidence of diseases and pest	Very much preferred	Little bit costlier but affordable	No	Yes	Soil testing of each field to be done.

C. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Application of sulphur and boron (Mustard)	Better oil percentage obtained	More oil extracted from seeds as compared to local check.	Preferred by farmers.
IPL 316 (Lentil)- Resistant to wilt and rust, large seeds	Better performance of growth parameters with less infestation of diseases and pest	Better performance as compared to local check.	Preferred by farmers
Sikha (Moong)- Highly resistant to Yellow Vein Mosaic Disease	Better performance of growth parameters with less infestation of diseases and pest	Better performance as compared to local check	Preferred by farmers

D. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training programme on Seed Treatment of Pulses	02.11.2022 and KVK Training Hall	25
2.	Field visit	23.11.2022 and Dharara	08
3.	Field visit	29.12.2022 and Faridpur	12
4.	Field day	21.03.2023 and Hariharpur	55
5.	Field visit	18.02.2023 and Thanpur	15
6.	Field visit	21.02.2023 and Loma	08
7.	Field visit	25.02.2023 and Dharara	10

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

F. Farmers' training photographs

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

H. Details of budget utilization

Crop (Provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Oilseeds(Mustard)	i) Critical input	-	322356.00	-329024.00
	ii) TA/DA/POL etc. for monitoring	-	6668.00	
	iii) Extension Activities (Field Day)	-	-	
	iv)Publication of literature	-	-	
	Total	-	329024.00	
Pulses(Lentil)	i) Critical input	-		-130552.00
	ii) TA/DA/POL etc. for monitoring	-	129201.00	
	iii) Extension Activities (Field Day)	-	1351.00	
	iv)Publication of literature	-	-	
	Total	-	130552.00	

3.4 ACHIEVEMENTS ON TRAINING /CAPACITY BUILDING PROGRAMMES

(Mandated KVK trainings/sponsored training /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													
Resource Conservation Technologies	4	85	10	95	35	2	37	0	0	0	120	12	132
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs	2	38	9	47	15	3	18	0	0	0	53	12	65
Others, (cultivation of crops)	2	40	19	58	16	5	22	0	0	0	56	24	80
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management	01	10	05	15	08	02	10	-	-	-	18	07	25
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising	03	14	09	23	56	11	67	-	-	-	70	20	90
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	02	15	07	22	33	05	38	-	-	-	48	12	60
Others, if any (Cultivation of Vegetable)	03	28	18	46	21	13	34	-	-	-	49	31	80
Training and pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards	01	10	03	13	10	02	12	-	-	-	20	05	25
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants	01	10	02	12	10	02	12	-	-	-	20	05	25
Others, if any	01	10	02	12	10	02	12	-	-	-	20	05	25
d) Plantation crops													
Production and Management technology													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Processing and value addition													
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	1	13	3	16	5	1	6	0	0	0	18	4	22
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management	1	15	0	15	3	0	3	0	0	0	18	0	18
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management	2	48	1	49	1	0	1	0	0	0	49	1	50
Feed management													
Production of quality animal products													
Others, if any Goat farming	2	15	5	20	33	2	35	0	0	0	48	7	55
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	1	0	0	0	0	20	20	0	0	0		20	20
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing	1	0	16	16	0	5	5	0	0	0	0	21	21
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition	3	0	16	16	14	27	41	0	0	0	14	44	58
Income generation activities for empowerment of rural Women													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	1	20	3	23	2	0	2	0	0	0	22	3	25
Use of Plastics in farming practices	1	18	0	18	5	0	5	0	0	0	23	0	23
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition	1	18	0	18	7	0	7	0	0	0	25	0	25
Post-Harvest Technology	1	17	5	22	2	3	5	0	0	0	19	8	27
Others, if any	3	51	15	66	6	9	15	0	0	0	57	24	81
VII. Plant Protection													
Integrated Pest Management	06	72	18	90	13	7	20	-	-	-	85	25	110
Integrated Disease Management	06	61	14	75	11	4	15	-	-	-	72	18	90
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 production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													

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
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													
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	**50**	**608**	**180**	**787**	**316**	**125**	**442**	**0**	**0**	**0**	**924**	**308**	**1232**

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	03	59	07	66	16	8	24	-	-	-	75	15	90
Bee-keeping	02	30	06	36	12	2	14	-	-	-	42	08	50
Integrated farming													
Seed production	01	32	0	32	03	0	03	-	-	-	35	0	35
Production of organic inputs	4	60	12	71	17	11	28	0	0	0	77	23	100
Integrated Farming													
Planting material production													
Vermi-culture	2	36	0	36	12	2	14	0	0	0	48	2	50
Sericulture													
Protected cultivation of vegetable crops	02	15	07	22	33	05	38	-	-	-	48	12	60
Commercial fruit production													
Repair and maintenance of farm machinery and implements	1	7	0	7	15	10	25	0	0	0	22	0	22
Nursery Management of Horticulture crops	03	14	09	23	56	11	67	-	-	-	70	20	90
Training and pruning of orchards													
Value addition	03	40	28	68	06	17	23	0	0	0	46	45	91
Production of quality animal products													
Dairying													
Sheep and goat rearing	3	31	6	37	30	5	35	0	0	0	61	11	72
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Enterprise development													

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
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	1	17	3	20	2	2	4	0	0	0	19	5	24
Post-Harvest Technology	1	4	11	15	4	2	6	0	0	0	8	13	21
Tailoring and Stitching													
Rural Crafts													
Other (Safe and Judicious uses of Glyphosate)	01	23	02	25	01	0	01	-	-	-	24	02	26
Other(banana fiber extraction)	3	13	15	28	11	33	44	0	0	0	24	48	72
Other (Household food security by kitchen gardening and nutrition gardening)	02	42	05	47	12	02	14	0	0	0	54	07	61
TOTAL	**32**	**423**	**111**	**533**	**230**	**110**	**340**	**0**	**0**	**0**	**653**	**211**	**864**

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	02	51	03	54	04	02	06	-	-	-	55	05	60
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology	02	15	07	22	33	05	38	-	-	-	48	12	60
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	**4**	**66**	**10**	**76**	**37**	**7**	**44**	**0**	**0**	**0**	**103**	**17**	**120**

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	3	42	13	55	17	4	21	0	0	0	59	17	76
Resource Conservation Technologies	3	17	5	22	39	18	57	0	0	0	56	23	79
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management	2	13	2	15	32	8	40	0	0	0	45	10	55
Integrated Crop Management	2	13	1	14	31	4	35	0	0	0	44	5	49
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)	4	21	4	25	53	12	65	0	0	0	74	16	90
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management	01	12	03	12	08	02	10	-	-	-	20	05	25
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables	01	12	03	12	08	02	10	-	-	-	20	05	25
Nursery raising	01	12	03	12	08	02	10	-	-	-	20	05	25
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Processing and value addition													
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													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management	3	24	0	24	18	18	36	0	0	0	42	18	60
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management	4	71	2	73	12	0	12	0	0	0	83	2	85
Feed management													
Production of quality animal products	1	14	0	14	1	0	1	0	0	0	15	0	15
Others, if any Goat farming													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	2	0	0	0	4	38	42	0	0	0	4	38	42
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet	1	6	10	16	0	0	0	0	0	0	6	10	16
Minimization of nutrient loss in processing	3	0	40	40	7	7	14	0	0	0	7	47	54
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition	3	13	26	29	0	15	15	0	0	0	13	54	67
Income generation activities for empowerment of rural Women	2	0	11	11	5	30	35	0	0	0	5	46	51

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care	2	0	4	4	9	49	58	0	0	0	9	53	62
Others, if any(importance of vitamin in diet)	3	0	10	0	10	69	79	0	0	0	10	79	89
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	1	22	4	26	2	2	4	0	0	0	24	6	30
Use of Plastics in farming practices	2	47	3	50	6	2	8	0	0	0	53	5	58
Production of small tools and implements	1	22	6	28	3	4	7	0	0	0	25	10	35
Repair and maintenance of farm machinery and implements	2	27	7	34	12	6	18	0	0	0	39	13	52
Small scale processing and value addition	5	113	7	120	22	8	30	0	0	0	135	15	150
Post-Harvest Technology	4	113	5	118	15	7	22	0	0	0	128	12	140
Others, if any	2	52	11	63	13	4	17	0	0	0	65	15	80
VII. Plant Protection													
Integrated Pest Management	06	111	08	119	10	03	13	-	-	-	121	11	132
Integrated Disease Management	06	115	02	117	08	1	09	-	-	-	123	03	126
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides	01	29	07	36	09	00	09	-	-	-	38	07	45
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 production													
Production of fry and fingerlings													
Production of Bee-colonies and wax													

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
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													
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	**71**	**921**	**197**	**1089**	**362**	**315**	**677**	**0**	**0**	**0**	**1283**	**530**	**1813**

E) RURAL YOUTH Including the sponsored training programmes(Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops	01	12	03	12	08	02	10	-	-	-	20	05	25
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops	01	12	03	12	08	02	10	-	-	-	20	05	25
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													

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
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post-Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any													
TOTAL	**2**	**24**	**6**	**24**	**16**	**4**	**20**	**0**	**0**	**0**	**40**	**10**	**50**

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

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	4	460	179	639	189	50	239	0	0	0	649	229	878
Integrated Pest Management	03	119	33	152	26	12	38	-	-	-	145	45	190
Integrated Nutrient management	02	80	11	91	07	02	09	-	-	-	87	13	100
Rejuvenation of old orchards													
Nursery Management of Horticulture crops	01	12	03	12	08	02	10	-	-	-	20	05	25
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	3	345	145	490	45	85	130	-	-	-	390	230	620
WTO and IPR issues													
Management in farm animals	1	10	1	11	1	0	1	0	0	0	11	1	12
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													

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
Other (Value addition)	02	120	53	173	60	34	94	0	0	0	180	87	267
TOTAL	**16**	**1146**	**425**	**1568**	**336**	**185**	**521**	**0**	**0**	**0**	**1482**	**610**	**2092**

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	3	42	13	55	17	4	21	0	0	0	59	17	76
Resource Conservation Technologies	7	102	15	117	74	20	94	0	0	0	176	35	211
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management	2	13	2	15	32	8	40	0	0	0	45	10	55
Integrated Crop Management	2	13	1	14	31	4	35	0	0	0	44	5	49
Fodder production													
Production of organic inputs	2	38	9	47	15	3	18	0	0	0	53	12	65
Others, (cultivation of crops)	6	61	23	83	69	17	87	0	0	0	130	40	170
TOTAL	**22**	**269**	**63**	**331**	**238**	**56**	**295**	**0**	**0**	**0**	**507**	**119**	**626**
II. Horticulture													
a)Vegetable crops													
Integrated nutrient management													
Water management	02	22	08	30	16	04	20	-	-	-	38	12	50
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables	01	12	03	15	08	02	10	-	-	-	20	05	25
Nursery raising	04	26	22	38	64	13	77	-	-	-	90	25	115
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	02	15	07	22	33	05	38	-	-	-	48	12	60
Others, if any (Cultivation of Vegetable)	03	28	18	46	21	13	34	-	-	-	49	31	80
Integrated nutrient management													
TOTAL	**12**	**103**	**58**	**151**	**142**	**37**	**179**	**0**	**0**	**0**	**245**	**85**	**330**
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards	01	10	03	13	10	02	12	-	-	-	20	05	25

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
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
TOTAL	**01**	**10**	**03**	**13**	**10**	**02**	**12**	**-**	**-**	**-**	**20**	**05**	**25**
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants	01	10	02	12	10	02	12	-	-	-	20	05	25
Others, if any	01	10	02	12	10	02	12	-	-	-	20	05	25
TOTAL	**02**	**20**	**04**	**24**	**20**	**04**	**24**	**-**	**-**	**-**	**40**	**10**	**50**
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management	01	10	02	12	10	02	12	-	-	-	20	05	25
Production and management technology	01	10	02	12	10	02	12	-	-	-	20	05	25
Post harvest technology and value addition													
Others, if any													
TOTAL	**02**	**20**	**04**	**24**	**20**	**04**	**24**	**-**	**-**	**-**	**40**	**10**	**50**
III. Soil Health and Fertility Management													
Soil fertility management	1	13	3	16	5	1	6	0	0	0	18	4	22
Soil and Water Conservation													
Integrated Nutrient Management	1	17	2	19	7	0	7	0	0	0	24	2	26
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
TOTAL	**2**	**30**	**5**	**35**	**12**	**1**	**13**	**0**	**0**	**0**	**42**	**6**	**48**
IV. Livestock Production and Management													
Dairy Management	4	39	0	39	21	18	39	0	0	0	60	18	78
Poultry Management													

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
Piggery Management													
Rabbit Management													
Disease Management	6	119	3	122	13	0	13	0	0	0	132	3	135
Feed management	1	14	0	14	1	0	1	0	0	0	15	0	15
Production of quality animal products	1	14	0	14	1	0	1	0	0	0	15	0	15
Others, if any (Goat farming)	2	15	5	20	33	2	35	0	0	0	48	7	55
TOTAL	**14**	**201**	**8**	**209**	**69**	**20**	**89**	**0**	**0**	**0**	**270**	**28**	**298**
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	3	0	0	0	4	58	62	0	0	0	4	58	62
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet	1	6	10	16	0	0	0	0	0	0	6	10	16
Minimization of nutrient loss in processing	4	0	56	56	7	12	19	0	0	0	7	68	75
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition	6	13	42	45	14	42	56	0	0	0	27	98	125
Income generation activities for empowerment of rural Women	2	0	11	11	5	30	35	0	0	0	5	46	51
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any(Importance of vitamin in diet)	3	0	10	0	10	69	79	0	0	0	10	79	89
Total	**19**	**19**	**129**	**128**	**40**	**211**	**251**	**0**	**0**	**0**	**59**	**359**	**418**
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	2	42	7	49	4	2	6	0	0	0	46	9	55
Use of Plastics in farming practices	3	65	3	68	11	2	13	0	0	0	76	5	81
Production of small tools and implements	1	22	6	28	3	4	7	0	0	0	25	10	35
Repair and maintenance of farm machinery and implements	2	27	7	34	12	6	18	0	0	0	39	13	52
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition	6	131	7	138	29	8	37	0	0	0	160	15	175
Post-Harvest Technology	5	130	10	140	17	10	27	0	0	0	147	20	167
Others, if any	5	103	26	129	19	13	32	0	0	0	122	39	161
Others, if any													
TOTAL	**24**	**520**	**66**	**586**	**95**	**45**	**140**	**0**	**0**	**0**	**615**	**111**	**726**
VII. Plant Protection													
Integrated Pest Management	12	183	26	209	23	10	33	-	-	-	206	36	242
Integrated Disease Management	12	176	16	192	19	05	24	-	-	-	195	21	216
Bio-control of pests and diseases													
Production of bio control agents and	01	29	07	36	09	00	09	-	-	-	38	07	45

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
bio pesticides													
Others, if any													
TOTAL	**25**	**388**	**49**	**437**	**51**	**15**	**66**	**0**	**0**	**0**	**439**	**64**	**503**
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													
TOTAL													
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													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													
Production technologies													

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
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. specify)													
TOTAL	**sK**	**1570**	**388**	**1927**	**705**	**398**	**1104**	**0**	**0**	**0**	**1836**	**737**	**2573**

On campus training (Home Science)

OFF campus training (Home Science)

OFF campus training (Plant Protection)

On campus training (Plant Protection)

ON campus training (Horticulture)

OFF campus training (Horticulture)

OFF campus training (Ag Engg)

ON campus training (Ag Engg)

OFF campus training (Crop Production)

ON campus training (Crop Production)

RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	03	59	07	66	16	8	24	-	-	-	75	15	90
Bee-keeping	02	30	06	36	12	2	14	-	-	-	42	08	50
Integrated farming													
Seed production	01	32	0	32	03	0	03	-	-	-	35	0	35
Production of organic inputs													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops	03	27	10	37	41	07	48	-	-	-	68	17	85
Commercial fruit production													
Repair and maintenance of farm machinery and implements	1	7	0	7	15	10	25	0	0	0	22	0	22
Nursery Management of Horticulture crops	04	26	12	38	64	13	77	-	-	-	90	25	115
Training and pruning of orchards													
Value addition	03	40	28	68	06	17	23	0	0	0	46	45	91
Production of quality animal products													
Dairying													
Sheep and goat rearing	3	31	6	37	30	5	35	0	0	0	61	11	72
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn													

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
culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing	1	17	3	20	2	2	4	0	0	0	19	5	24
Post-Harvest Technology	1	4	11	15	4	2	6	0	0	0	8	13	21
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)													
Other (Safe and judicious uses of Glyphosate)	01	23	02	25	01	0	01	-	-	-	24	02	26
Other(banana fiber extraction)	3	13	15	28	11	33	44	0	0	0	24	48	72
Others if any (development of nutri garden by waste bag))	02	42	05	47	12	02	14	0	0	0	54	07	61
TOTAL	**28**	**351**	**105**	**456**	**217**	**101**	**318**	**0**	**0**	**0**	**568**	**196**	**764**

Photographs:

RY training on Banana fiber Extraction and its value addition

RY training on Mushroom Production

RY training on Banana fiber

RY training on Urban gardening

RY training on Natural farming

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management	05	170	36	206	30	14	44				200	50	250
Integrated Nutrient management	02	80	11	91	07	02	09	-	-	-	87	13	100
Rejuvenation of old orchards													
Value addition	02	120	53	173	60	34	94	0	0	0	180	87	267
Protected cultivation technology	02	15	07	22	33	05	38	-	-	-	48	12	60
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	3	345	145	490	45	85	130	0	0	0	390	230	620
WTO and IPR issues													
Management in farm animals	1	10	1	11	1	0	1	0	0	0	11	1	12
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
TOTAL	**15**	**740**	**253**	**993**	**176**	**140**	**316**	**0**	**0**	**0**	**916**	**393**	**1309**

Extension Functionaries Training

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 SC/ST			Number of participants (others)			Over all participants
					M	F	Total	M	F	Total	
PLANT PROTECTION	PF	Integrated Pest/ Disease management in Banana	02	On & OffCampus	15	0	15	07	0	07	22
	PF	Pest management of Mango & litchi	02	On & OffCampus	03	3	06	12	8	20	26
	PF	Integrated Pest & Disease management in summer vegetables	02	On & Off Campus	03	3	06	12	8	20	26
	PF	Integrated Pest/Disease management in Horticultural crops	02	On & Off Campus	06	01	07	13	04	17	23
	PF	Bio control of Pest & Disease	02	On & Off Campus	06	01	07	13	04	17	23

	PF	Production of Bio-control agents & Bio-pesticides Vegetables	02	On & Off Campus	06	01	07	13	04	17	23
	PF	Integrated Pest/Disease management in Cucurbits crop	02	On & Off Campus	15	0	15	07	0	07	22
	PF	Integrated Pest/Disease management in *Kharif* crop	02	On & Off Campus	03	3	06	12	8	20	26
	PF	Integrated Pest/Disease management in *Kharif* vegetables	02	On & Off Campus	06	01	07	13	04	17	23
	PF	Production of Bio-control agents & Bio-pesticides	02	On & Off Campus	03	3	06	12	8	20	26
	PF	Integrated Pest/Disease management in Rabi crop	02	On & Off Campus	06	01	07	13	04	17	23
	PF	Integrated Pest/Disease management in Rabi Vegetable	02	On & Off Campus	06	01	07	13	04	17	23
	PF	Lecture delivered on Silkworm rearing and their management	01	OFF Campus	03	3	06	12	8	20	26
	PF	Insect and Disease Management of mango	01	OFF Campus	06	01	07	13	04	17	23
	PF	Integrated Pest Management in Paddy	01	OFF Campus	03	3	06	12	8	20	26
	PF	Integrated Pest/Disease Management in Kharif crop	01	OFF Campus	17	8	25	3	5	8	33
	PF	Banana cultivation and their IPM	01	ON Campus	21	4	25	4	0	4	29

		Techniques									
	PF	Integrated Pest/Disease management of Kharif crop	01	Virtual mode	03	3	06	12	8	20	26
	RY	Mushroom Production	03	ON Campus	03	3	06	12	8	20	26
	RY	Mushroom Production	03	ON Campus	03	3	06	12	8	20	26
	RY	Bee keping	03	ON	03	3	06	12	8	20	26
	RY	Bee keping	03	Campus	03	3	06	12	8	20	26
	PF	Integrated Pest/Disease management of cucurbits crop	01	OFF Campus	03	3	06	12	8	20	26
	PF	Integrated Pest/Disease management of cucurbits crop	01	OFF Campus	03	3	06	12	8	20	26
	PF	Integrated Pest/Disease management of Rabi crop	01	OFF Campus	03	3	06	12	8	20	26
	PF	Integrated Pest/Disease management in cauliflower	01	OFF Campus	03	3	06	12	8	20	26
	EF	Integrated Pest/Disease management	01	OFF Campus	15	31	46	112	48	160	206
	EF	Integrated Pest/Disease management	01	OFF Campus	18	15	33	126	50	176	209
	PF	Integrated Pest/Disease management of Rabi crop	01	OFF Campus	03	3	06	12	8	20	26
	PF	Integrated Pest/Disease management of Rabi crop	01	OFF Campus	03	3	06	12	8	20	26
	PF	Integrated Pest/Disease management of Rabi crop	01	OFF Campus	03	3	06	12	8	20	26

Discipline	**Clientele**	**Title of the training programme**	**Duration in days**	**Venue (Off / On Campus)**	**Number of SC/ST**			**Number of participants (others)**			**Over all participants**
					M	**F**	**Total**	**M**	**F**	**Total**	
Ag Engg	RY	Maintenance of tractor and other implements	3	On Campus	15	0	15	07	0	07	22

Ag Engg	PF	Installation and maintenance of Micro irrigation system	2	On Campus	03	3	06	12	8	20	26
Ag Engg	PF	Importance and benefit of mulching in vegetable crop	2	On Campus	06	01	07	13	04	17	23
Ag Engg	PF	Installation and maintenance of Micro irrigation system	1	Off Campus	03	3	06	12	8	20	26
Ag Engg	RY	Preservation and processing of fruits & vegetables	3	On Campus	11	2	13	06	02	08	21
Ag Engg	PF	Value addition in banana	1	Off Campus	4	3	7	14	5	19	26
Ag Engg	RY	Banana fiber Extraction and its value addition	5	On Campus	4	4	8	10	0	10	18
Ag Engg	PF	Rice processing	1	On Campus	3	2	5	16	8	24	29
Ag Engg	RY	Maintenance of tractor and other implements	3	On Campus	4	3	7	14	4	18	25
Ag Engg	EF	Pulse processing	1	Off Campus	15	28	43	115	48	163	206
Ag Engg	PF	Preservation and processing of fruits & vegetables	1	Off Campus	4	3	7	14	5	19	26
Ag Engg	RY	Banana fiber Extraction and its value addition	3	On Campus	5	4	9	15	1	16	25
Ag Engg	PF	Pulse processing	1	On Campus	04	0	04	16	06	22	26
Ag Engg	PF	Preservation and processing of fruits & vegetables	1	Off Campus	03	3	06	12	8	20	26
Ag Engg	PF	Importance and benefit of mulching in vegetable crop	1	Off Campus	3	2	5	18	4	22	27
Ag Engg	EF	Banana processing	01	Off Campus	15	31	46	112	48	160	206

		and value addition									
Ag Engg	PF	Drying methods	01	Off Campus	3	2	5	18	4	22	27
Ag Engg	PF	Preservation and processing of fruits &vegetables	01	Off Campus	4	3	7	18	0	18	25
Ag Engg	PF	Storage of graion	01	Off Campus	5	2	7	17	2	19	26
Ag Engg	PF	Banana processing and value addition	01	Off Campus	3	2	5	18	4	22	27
Ag Engg	PF	Preservation and processing of fruits & vegetables	01	Off Campus	4	3	7	14	5	19	26
Ag Engg	PF	Repair and maintenance of farm machinery	01	Off Campus	15	31	46	112	48	160	206
Ag Engg	PF	Repair and maintenance of farm machinery	01	Off Campus	03	02	05	18	3	21	26
Ag Engg	PF	Importance and benefit of mulching in vegetable crop	01	Off Campus	5	2	7	17	2	19	26
Ag Engg	EF	Banana processing and value addition	01	Off Campus	15	31	46	112	62	174	220
Ag Engg	PF	Importance and benefit of mulching in vegetable crop	01	Off Campus	5	2	7	12	6	18	25
Ag Engg	PF	Repair and maintenance of farm machinery	01	Off Campus	03	02	05	18	3	21	26
Ag Engg	PF	Banana processing and value addition	01	On Campus	15	31	46	112	48	160	206
Ag Engg	PF	Preservation and processing of fruits & vegetables	01	Off Campus	5	2	7	17	6	23	30
Ag Engg	PF	Storage of grain	01	Off Campus	03	02	05	18	3	21	26
Ag Engg	PF	Repair and maintenance of farm	01	On Campus	03	02	05	18	3	21	26

		machinery									
Ag Engg	PF	Banana Fibre extraction and maintenance	01	Off Campus	5	2	7	17	6	23	30

Discipline	**Clientele**	**Title of the training programme**	**Duration in days**	**Venue (Off / On Campus)**	**Number of SC/ST**			**Number of participants (others)**			**Over all participants**
					M	**F**	**Total**	**M**	**F**	**Total**	
Crop Production	PF	Weed Management in Rabi crops	01	Off	5	2	7	12	6	18	25
Crop Production	PF	Scientific Procedure of Soil sampling	01	On Campus	5	1	6	13	3	16	22
Crop Production	PF	Cultivation of summer moong	01	Off Campus	6	1	7	14	4	18	25
Crop Production	PF	Benefits and Use of Leaf Colour Chart in Cereals	02	Off Campus	6	1	7	15	2	17	24
Crop Production	PF	Benefits and Use of Leaf Colour Chart in Cereals	02	Off Campus	5	2	7	11	8	19	26
Crop Production	PF	Natural Farming	01	Off Campus	5	2	7	12	6	18	25
Crop Production	PF	Climate Resilient Agriculture Practices	01	Off Campus	6	2	8	13	8	21	29
Crop Production	PF	Nursery Management in Rice	01	Off Campus	6	1	7	14	4	18	25
Crop Production	PF	Management of Parthenium Grass	01	Off Campus	6	1	7	14	5	19	26
Crop Production	PF	Vermicompost Production	01	On Campus	8	2	10	20	5	25	35
Crop Production	PF	Seed Treatment in Pulses	01	Off Campus	7	0	7	17	0	17	24
Crop Production	PF	Weed Management in Rabi Crops	01	Off Campus	6	1	7	16	2	18	25
Crop Production	PF	Natural Farming	01	Off Campus	6	0	6	16	0	16	22
Crop Production	PF	Integrated Nutrient Management in Rabi Crops	01	Off Campus	7	0	7	17	2	19	26
Crop Production	PF	Natural Farming	01	Off Campus	5	1	6	12	3	15	21
Crop Production	PF	Resource Conservation Technologies	01	On Campus	7	1	8	18	4	22	30
Crop Production	PF	Resource Conservation Techniologies	01	On Campus	13	0	13	32	0	32	45
Crop Production	PF	Resource Conservation Techniologies	01	On Campus	6	1	7	14	4	18	25
Crop	PF	Resource	01	On	9	0	9	21	2	23	32

Production		Conservation Techniologies		Campus							
Crop Production	PF	Natural Farming	01	Off	5	1	6	13	3	16	22
Crop Production	PF	Natural Farming	01	On Campus	9	2	11	22	7	29	40
Crop Production	PF	Natural Farming	01	On Campus	7	3	11	18	12	29	40
Crop Production	PF	Vermicompost Production	01	On Campus	7	1	8	18	4	22	30
Crop Production	PF	Use of vermicompost in Nursery	01	Off Campus	7	1	8	18	4	22	30
Crop Production	RY	Organic Farming	03	On Campus	3	4	7	16	2	17	24
Crop Production	RY	Organic Framing	03	On Campus	4	3	7	14	4	18	25
Crop Production	RY	Vermicomposting	03	On Campus	5	02	7	18	0	18	25
Crop Production	RY	Vermicomposting	03	On Campus	7	0	7	18	0	18	25
Crop Production	RY	Natural Farming	03	On Campus	4	3	7	14	3	17	24
Crop Production	RY	Natural Farming	03	On Campus	6	1	7	16	3	19	26
Crop Production	EF	Climate Resilient Agriculture Practices	01	Off Campus	57	12	69	138	43	181	250
Crop Production	EF	Cultivation of Rabi crops	01	Off Campus	58	10	68	143	34	177	245
Crop Production	EF	Resource Conservation Technologies	01	Off Campus	39	13	52	95	48	143	195
Crop Production	EF	Organic Framing and Natural Farming	01	Off Campus	35	15	50	84	54	138	188

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of SC/ST			Number of participants (others)			Over all participants
					M	F	Total	M	F	Total	
Home Science	PF	Value addition in banana products	01	On Campus	-	8	8	-	7	7	15
Home Science	PF	Importance and technique of nutrition gardening and kitchen garden	01	Off Campus	-	21	21	-	-	-	21
Home Science	PF	Importance and technique of nutrition gardening and kitchen garden	01	On Campus	-	20	20	-	-	-	20
Home Science	RY	Establishment of Nutri-garden and preparation of waste bag technology	02	On Campus	02	-	02	18	5	23	25
Home Science	PF	Banana fiber extraction and preparation of products from fiber	02	Off Campus	-	20	20	-	-	-	20
Home Science	PF	Proper cooking methods for better retention of nutrients	02	Off Campus	-	05	05	-	10	10	15
Home Science	PF	Proper cooking methods for better retention of nutrients	02	Off Campus	-	-	-	-	16	16	16
Home Science	PF	Diet during pregnancy and lactation & Importance of mother's milk	01	Off Campus	09	32	41	-	-	-	41
Home Science	EF	Banana cultivation and fiber extraction	01	Off Campus	25	15	40	75	27	102	142
Home Science	RY	Banana fiber extraction and preparation of products from fiber	03	On Campus	-	08	08	24	03	27	35
Home Science	PF	Importance of vitamin in diet	01	Off Campus	03	38	41	-	-	-	41
Home Science	PF	Preparation of Jam, Jellies and Pickles	01	Off Campus	-	15	15	-	06	06	21
Home Science	PF	Importance of vitamin in diet	01	Off Campus	02	19	21	-	-	-	21
Home Science	PF	Importance of vitamin in diet	01	Off Campus	05	12	17	-	10	10	27
Home Science	PF	Importance and technique of nutrition gardening and kitchen garden	01	Off Campus	04	17	21	-	-	-	21
Home Science	PF	Banana fiber extraction and preparation of	01	Off Campus	05	10	15	-	11		26

		products from fiber									
Home Science	PF	Importance and preparation of low-cost nutritious diet	01	Off Campus	-	-	-	06	10	16	16
Home Science	PF	Value addition in banana products	01	Off Campus	-	-	-	13	05	18	18
Home Science	RY	Banana fiber extraction and preparation of products from fiber	02	Off Campus	03	01	04	14	12	26	30
Home Science	PF	Preservation of Amla products	01	Off Campus	-	15	15	-	-	-	15
Home Science	EF	Food processing &value added products	01	Off Campus	35	19	54	45	26	71	125
Home Science	RY	Importance and technique of natural nutrition gardening and kitchen garden	02	On Campus	10	02	12	24	-	-	36
Home Science	PF	Diet during pregnancy and lactation &Importance of mother's milk	01	Off Campus	-	17	17	-	4	04	21
Home Science	PF	Value addition in Mushroom	02	On Campus	14	05	19	-	-	-	19
Home Science	PF	Proper cooking methods for better retention of nutrients	01	Off	07	02	09	-	14	14	23
Home Science	PF	Proper cooking methods for better retention of nutrients	02	On Campus	-	05	05	-	16	16	21
Home Science	PF	Value addition in banana product	02	On Campus	-	15	15	-	09	09	24
Home Science	RY	Banana fiber extraction and preparation of products from fiber	02	On Campus	03	08	11	02	13	15	26
Animal Science	PF	Improved goat farming	2	ON campus	26	4	30	24	2	26	56
Animal Science	PF	Improved goat farming	2	ON campus	22	3	25	9	0	9	31
Animal Science	PF	Prevention of mastitis by use teat did cup	1	OFF campus	13	1	14	2	0	2	15
Animal Science	PF	Importance of vaccination and deworming	1	OFF campus	20	1	21	10	0	10	30
Animal Science	PF	Control of endo & ectoparasite in livstock	1	OFF campus	17	0	17	0	0	0	17
Animal Science	RY	Goat farming	3	ON campus	24	2	26	10	0	1	25

Animal Science	RY	Goat farming	3	ON campus	17	5	22	13	4	17	39
Animal Science	PF	Eradication of ectoparasite in farm	1	ON campus	15	1	16	0	0	0	16
Animal Science	PF	Livestock waste collection & conservation	1	ON campus	34	0	34	1	0	1	35
Animal Science	PF	Livestock waste collection and conservation	1	OFF campus	33	0	33	0	0	0	33
Animal Science	PF	Conservation of green fodder (Hay & Silage)	1	OFF campus	15	0	15	1	0	1	16
Animal Science	EF	Importance of vaccination for cattle, goat and poultry	1	OFF campus	11	1	12	1	0	1	13
Animal Science	RY	Improved goat farming	3	ON campus	20	4	24	7	1	8	32
Animal Science	PF	Scaling of Natural farming	2	ON campus	18	0	18	3	0	3	21
Animal Science	PF	Management of new born calf	1	OFF campus	16	1	17	3	1	4	21
Animal Science	PF	Management of new born calf	1	OFF campus	14	11	25	10	11	21	46
Animal Science	PF	Integrated dairy farming	1	OFF campus	12	6	18	5	6	11	29
Plant protection	PF	Integrated Pest management in Rabi Crop	01	Virtual mode	31	4	35	1	0	1	36
Horticulture	PF	Nursery management of vegetable crops	1	Off Campus	5	3	8	12	6	18	26
Horticulture	PF	Protected cultivation of fruits vegetable and flower crops	1	Off Campus	5	2	7	13	3	16	23
Horticulture	PF	Insect and disease management mango litchi	1	OFF Campus	6	3	9	14	4	18	27
Horticulture	PF	Training on IPM mango fruit fly	1	On campus	6	1	7	15	2	17	24
Horticulture	RY	Off season cultivation of vegetable crops for higher remuneration harvesting of wheat	3	On campus	5	3	8	11	8	19	27
Horticulture	PF	Establishment of nursery & management	1	OFF Campus	5	3	8	12	6	18	26
Horticulture	PF	Management of young orchard & plants	1	On campus	6	2	8	15	8	23	31
Horticulture	PF	Different techniques of	1	On campus	6	1	7	14	4	18	25

		probation of ornamental									
Horticulture	RY	Nursery management of vegetable crops	3	On campus	6	3	9	12	5	17	26
Horticulture	PF	Protected cultivation of fruits vegetable and flower crops	1	OFF campus	8	2	10	23	5	28	38
Horticulture	PF	Protected cultivation of fruits vegetable and flower crops litchi	1	OFF campus	7	0	7	17	0	17	24
Horticulture	PF	Training on IPM mango fruit fly	1	On campus	6	3	9	16	2	18	27
Horticulture	EF	Off season cultivation of vegetable crops for higher remuneration harvesting of wheat	1	On campus	6	0	6	16	0	16	22
Horticulture	PF	Establishment of nursery & management		On campus	7	4	11	17	2	19	30
Horticulture	RY	Management of young orchard & plants	3	On campus	5	1	6	12	3	15	21
Horticulture	PF	Different techniques of probation of ornamental		On campus	7	1	8	18	4	22	30
Horticulture	RY	Protected cultivation of fruits vegetable and flower crops	3	On campus	13	0	13	32	0	32	45
Horticulture	PF	Protected cultivation of fruits vegetable and flower crops	1	OFF campus	6	1	7	14	4	18	25
Horticulture	EF	Protected cultivation of fruits vegetable and flower crops	1	OFF campus	9	4	13	21	2	23	36
Horticulture	PF	Protected cultivation of fruits vegetable and flower crops	1	OFF campus	5	1	6	13	3	16	22

H) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self-employed after training			Number of persons employed else where
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Banana	Banana fiber extraction	Banana fiber extraction and its value addition	5	6	44	50	Small unit	6	20	5
Goatry	Lack of knowledge for goat rearing	Improved goat farming	3	61	11	72	Small unit	2	8	3
Honey	Bee keeping and honey production	Bee keeping and honey product ion	3	45	15	60	Small units	3	9	3
Mushroom	Mushroom production	Mushroom production technology	3	55	25	80	Small units	3	15	3
Vermicompost	Vermicompost production	Vermicompost production	3	35	15	50	Small units	2	10	3

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

I) Sponsored Training Programmes

S.No.	Title	Thematic area	Month	Duration (days)	Client PF/RY/EF	No. of courses	No. of Participants									Sponsoring Agency
							Male			Female			Total			
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1	FarmersScientist interaction programme	Crop management	July, 2023	2	PF	1	32	12	0	2	2	0	34	14	0	48	ATMAVaishali
2	10 Days training program	Banana fiber	Jan, 2023	10	RY	0	0	0		6	4	0	6	4	0	10	Jivika
3	One days training program	Integrated crop management	March, 2023	1	EF	1	12	3	0	5	02	0	17	5	0	22	PPL ,RMO,Patna
4	Expouse visit cum training program	Crop production and management	April,2023	3	PF	1	85	13	0	53	14	0	138	27	0	165	ATMAVaishali
5.	Traing program	Capacity Building and Group Dynamics	Aug, 2023	1	FPO Farmers	1	28	4	0	9	3	0	37	7	0	44	NCDC,Patna
6.	Training program	Energy conservation	Oct, 2023	1	PF	1	18	7	0	18	0	0	36	7	0	43	BREDA,AgDSM,Bihar
Total						**6**	**175**	**39**	**0**	**93**	**25**	**0**	**268**	**64**	**0**	**332**	

Area of training	No. of Courses	No. of Participants											
		General			SC			ST			Grand Total		
		M	F	Total	M	F	Total	M	F	Total	M	F	Total
Crop production and management													
Increasing production and productivity of crops	16	418	106	524	129	30	159	0	0	0	547	136	683
Commercial production of vegetables	1	22	3	25	17	1	18	0	0	0	39	4	43
Production and value addition								0	0	0	0	0	0
Fruit Plants	1	20	2	22	15	2	17	0	0	0	35	4	39
Ornamental plants								0	0	0	0	0	0
Spices crops	1	18	5	23	5	2	7	0	0	0	23	7	30
Soil health and fertility management	1	23	0	23	0	0	0	0	0	0	23	0	23
Production of Inputs at site	5	75	12	87	11	5	16	0	0	0	86	17	103
Methods of protective cultivation	1	5	30	35	2	10	12	0	0	0	7	40	47
Other													
Total	**26**	**581**	**158**	**739**	**179**	**50**	**229**	0	0	0	**760**	**208**	**968**
Post harvest technology and value addition	4	41	54	95	0	6	0	0	0	0	41	60	101
Processing and value addition	1	21	2	23	0	0	0	0	0	0	21	0	23
Other													
Total	**5**	**62**	**56**	**118**	**0**	**6**	6	**0**	**0**	**0**	**62**	62	124
Farm machinery	6	81	51	132	14	30	44	**0**	**0**	**0**	95	81	176
Farm machinery, tools and implements	7	135	80	215	39	18	57	**0**	**0**	**0**	174	98	272
Other													
Total	13	**216**	**131**	**347**	**53**	**48**	**101**	**0**	**0**	**0**	**269**	**179**	**448**
Livestock and fisheries													
Livestock production and management	10	95	12	107	85	25	110	0	0	0	180	37	217
Animal Nutrition Management	1	14	0	14	1	0	1	0	0	0	15	0	15
Animal Disease Management	6	119	3	122	13	0	13	0	0	0	132	3	135
Fisheries Nutrition													
Fisheries Management													
Other													
Total		**17**	**228**	**15**	**243**	**99**	**25**	**0**	**0**	**0**	**124**	**327**	**40**
Home Science													
Household nutritional security	3	0	35	35	0	43	43	0	0	0	0	78	78
Economic empowerment of women													
Drudgery reduction of women													
Other	16	51	117	168	23	195	218	0	0	0	74	312	386
Total	19	**51**	**152**	**203**	**23**	**238**	**261**	**0**	**0**	**0**	**74**	**390**	**464**
Agricultural Extension													
Capacity Building and Group Dynamics													
Other													
Total													
Grant Total	**82**	**1138**	**912**	**2050**	**354**	**367**	**715**	**0**	**0**	**0**	**1837**	**928**	**2765**

J. Information on ASCI Skill Development Training Programme funded by ICAR undertaken during 2023

Total no of training organised	Name of QP/Job role	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
1		**Garden keepar**	**210 hr**	**2**	**0**	**0**	**0**	**18**	**5**	**20**	**5**	**25**	**244951.00**

K. Information on Skill Development Training Programme (other agency if any) if undertaken -NA

Total no of training organised	Name of QP/Job role	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
-	-	-	-	-	-	-	-	-	-	-	-	-	-

3.5. A. ACHEVEMENTS OF EXTENSION/OUTREACH ACTIVITIES

(Including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers					Extension Officials					Total				
		M	F	Total	SC (no.)	ST (no.)	M	F	Total	SC (no.)	ST (no.)	M	F	Total	SC (no.)	ST (no.)
Kisan Mela organized	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kisan Mela participated	04	2450	1550	4000	620	0	88	42	130	5	0	2538	1592	4130	625	
Field Day	12	88	56	144	19	0	25	8	33	2	0	113	64	177	21	
Kisan Ghosthi	38	2700	1100	3800	765	0	85	17	102	8	0	2785	1117	3902	773	
Exhibition organized	01	165	55	220	35	0	7	3	10	2	0	172	58	230	37	
Participation in exhibition	25	3070	505	3575	875	0	76	28	104	7	0	3146	533	3679	882	
Film Show	65	588	280	868	78	0	18	8	26	8	0	606	288	894	86	
Method Demonstrations	145	563	162	725	72	0	25	7	32	8	0	588	169	757	80	
Farmers Seminar	05	398	107	505	55	0	25	8	33	7	0	423	115	538	62	
Workshop	02	293	142	435	59	0	30	12	42	5	0	323	154	477	64	
Group discussion	85	61	56	260	86	0	57	25	82	7	0	118	81	199	93	
Lectures delivered as resource persons	18	1180	745	1825	132	0	46	15	61	4	0	1226	760	1986	136	
Advisory Services	834	4468	2587	7055	145	0	132	40	172	13	0	4600	2627	7227	158	
Scientific visit to farmers field	132	578	247	825	49	0	138	36	174	15	0	716	283	999	64	
Farmers visit to KVK	4520	4735	785	5520	78	0	45	19	64	17	0	4780	804	5584	95	
Diagnostic visits	123	480	168	648	80	0	29	8	37	43	0	509	176	685	123	
Exposure visits	11	305	197	502	80	0	45	21	66	8	0	350	218	568	88	
Ex-trainees Sammelan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Soil health	02	42	08	50	7	0	12	7	19	5	0	54	15	69	12	

Camp																
Animal Health Camp	0	0	0	0	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	0	0	0	0	
Soil test campaigns	02	42	08	50	7	0	12	7	19	5	0	54	15	69	12	
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Self Help Group Conveners meetings	05	95	30	125	45	0	0	0	0	0		95	30	125	45	
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Special day celebration	18	550	295	845	125	0	27	8	35	8	0	577	303	880	133	
Sankalp Se Siddhi	45	340	250	590	145	0	28	17	45	9	0	368	267	635	154	
Swatchta Hi Sewa	45	380	140	520	104	0	17	9	26	4	0	397	149	546	108	
Celebration of important date	8	260	190	450	25	0	18	7	25	6	0	278	197	475	31	

B. Other Extension/content mobilization activities

Nature of Extension Activity	No. of activities
Newspaper coverage	50
Radio talks	-
TV talks	02
Popular articles published	06
Extension Literature	
Electronic media	02
Any other	

Various Extension Activities Photographs

Sr.Scientist & head visited at farmers field

Sr.Scientist and Head visited at Mushroom Entreprenurial unit

Scientist visit at potato farm

Farmers visit at Custom hiring centre

Farmers visit to mushttom unit at KVK Vaishali

BSc Agriculture Students visit at urban garden

School student visit to KVK Vaishali

Hon ble Vice Chancellor, RPCAU visit to food procesing lab

Sale tax officer,IRS visit to KVK Vaishali

Dr.P.R Singh,Ex Principal Scientist (FM&P),ICAR-IISR,LUCKNOW visit to KVK Vaishali

Dr.Sweta Singh CQ University,Brisbane Australia visit to KVK Vaishali

MLA.Hajipur visited at IFS poultry unit

Director,Bameti along with DDE-2. RPCAU visited to Natural farming demonstration unit

Field day of millet

Scientist of KVK Vaishali along with entreprenures at stall on ICAR foundation day

Scientist of KVK Vaishali at stall in sonpur mela

Scientist at stall in Bihar Divas

Republic day

Sr.Scientist & Head

Environment Day

DDG, ICAR Visit at stall on ICAR Foundation Day

Media Coverage


खेती-बाड़ी

मोटे अनाज में बाजरे की खेती लाभदायक, विटामिन से भरपूर


खाद्य प्रसंस्करण में व्यवसाय की बढ़ीं संभावनाएं, होगा लाभ


पटना संस्करण

चौथी दुनिया

अच्छी उपज के लिए जैविक खेती पर दें ज्यादा जोर : एसडीओ नीरज


हिन्दुस्तान

पटना, बृहस्पतिवार, 25 जनवरी 2023

प्रशिक्षण : किसानों को मिला प्रशस्तिपत्र


प्रभात खबर

पटना, शुक्रवार 23.02.2023

उपलब्धि. केवीके, वैशाली के वैज्ञानिकों का कमाल, 3500 रुपये होगी कीमत

वैज्ञानिकों ने बनायी अंडे से चूजा तैयार करने की मशीन, किसानों को होगा लाभ


प्रभात खबर

पटना, शनिवार 30.09.2023

वैज्ञानिक सलाहकार समिति की बैठक में आलू अनुसंधान पर हुई चर्चा


प्रभात खबर

पटना, शुक्रवार 03.02.2023

कृषि विज्ञान केंद्र, हरिहरपुर में आयोजित कार्यशाला में विशेषज्ञों ने कहा

रासायनिक खेती से खेत की उर्वरा व मानव स्वास्थ्य हो रहा प्रभावित


हिन्दुस्तान

पटना, बृहस्पतिवार, 25 जनवरी 2023

प्रशिक्षण : किसानों को मिला प्रशस्तिपत्र


पटना, गुरुवार, 28 दिसंबर, 2023 | 17

केंद्रीय कृषि विवि की प्रदर्शनी का कुलपति ने किया निरीक्षण

C. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology
Awareness program	03	165	All demonstrations unit at KVK

D. Celebration of important days in KVKs

Celebration of Important Days	No. of activities	Farmers			Extension Officials			Total		
		M	F	Total	M	F	Total	M	F	Total
Republic day (26th Jan.)	1	18	8	26	4	2	6	19	16	35
International Women's Day (8th Mar.)	1	0	40	40	2	4	6	2	44	46
Ambedkar Jayanti (14th Apr.)	0	0	0	0	0	0	0	0	0	0
World's Veterinary Day (Last week of April)	1	42	8	50	5	6	11	47	14	61
World 'Milk Day	1	32	8	40	2	4	6	34	12	46
International Yoga Day (21st Jun.)	7	51	21	72	14	28	42	65	49	114
Independence Day (15th Aug.)	0	0	0	0	0	0	0	0	0	0
Parthenium Awareness Week	0	0	0	0	0	0	0	0	0	0
Hindi Diwas (14th Sep.)	4	32	23	55	2	4	6	34	27	61
Gandhi Jayanti (2nd Oct.)	1	0	25	25	2	4	6	2	29	31
Mahila Kisan Diwas (15th Oct.)	1	31	5	36	1	2	3	32	7	39
World Food Day (16th Oct.)	1	26	0	26	2	5	7	28	5	33
Vigilance Awareness Week	0	0	0	0	0	0	0	0	0	0
National Unity Day (31st Oct.)	0	0	0	0	0	0	0	0	0	0
World Science Day (10th Nov.)	0	0	0	0	0	0	0	0	0	0
National Education Day (11th Nov.)	1	2	21	23	1	0	1	3	21	24
Fisheries day (21 Nov)	1	20	21	41	2	4	6	22	25	47
National Constitution Day (26th Nov.)	5	25	22	47	2	4	6	27	26	53
World Soil Day (5th Dec.)	1	7	29	36	2	5	7	9	34	43
Kisan Diwas (23rd Dec.)	1	18	8	26	4	2	6	19	16	35
Any other day	1	0	40	40	2	4	6	2	44	46

Photographs:

Parthenium Awareness Week

Rashtriya Posan Maah

E. Interaction/Live telecast programme of Hon'ble PM/Hon'ble or Argil Minister

Sl.	Date of event	Name of Event/Programme	Interaction of Hon'ble PM/AM	Participants			
				Farmers	Staffs	VIP/Others	Total
1.	27.02.2023	PM kishan Samman Nidhi	Sri Narendra Modi	350	15	01	366
2.	30.04.2023	100 th episode of Man ki bat	Sri Narendra Modi	55	15	01	71
3.	16-18.07.2023	Technology day celebration	Live telecast	149	15	01	165
4.	27.07.2023	PM kishan Samman Nidhi	Sri Narendra Modi	232	15	01	248
	15.11.2023	PM kishan Samman Nidhi	Sri Narendra Modi	154	15	01	170

Photographs:

Awareness program on natural Farming

Online Live Telecast Programmes at KVK

3.5 a. Production and supply of Technological products

A. Seed production at seed village

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
Lentil	IPL-316	110	825000	07	0	0	7	7
Green gram	Virat	50	480000	06	0	0	6	6
Total		**160**						

B. Seed production at KVK farm

Type of seed produced	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Cereals (Paddy) Rajshree Finger millet	Rajendra Suwashini	75.36 05.77 2.9					
Oil seed Sesame(Krishna)	Tori(RH-749)	5.5 0.95					
Pulses(Green gram)	Shikha	6.0	57,600.00				
Green Manure							
Commercial crop							
Vegetables(Potato)	K Khyati,Chipsona,Sinduri	200.00	5,00,000				

Fodder							
Spices							
Fruits							
Forest crop							
Ornamental/flower							
Medicinal							
Grand Total		**296.48**					

C. 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	Pusa Synthetic	5000	5000	14	0	35	49
Cabbage							
Tomato	HI TOM-2	4000	4000	17	0	32	49
Brinjal	Pusa Purple Long	5000	5000	22	0	45	67
Chilli							
Onion							
Others	-						
Cucumber	Kashi Nutan	2000	10000	45	0	34	79
Bottle gourd	Kashi Kanchan	5000	15000	26	0	37	63
Bitter gourd	Kashi Pratishta	2000	4000	34	0	21	55
Sponge gourd	Kashi Shiwani	6000	12000	38	0	54	92
Capsicum	NS 292	5000	5000	21	0	47	68
Commercialseedlings							
Mulberry							
Sugarcane,							
Sweet Potato							
Turmeric							
Zinger							
Others							
Fruitsseedlings							
Mango	Mallika, Amrapali, Malda	2000	3,00,000	90	0	270	360
Guava							
Lime							

Papaya							
Banana							
Ornamental plants	Croton	4000	1,20,000	80	0	107	187
Marigold							
Annual chrysanthemum							
Tuberose							
Others							
Medicinal and Aromatic	Lemongrass	200	500	5	0	29	34
Ajwain	Ajwain	300	500	11	0	32	43
Plantation							
Tuber Elephant yams							
Spices							
Grand Total		**40500**	**481000**	**403**	**0**	**743**	**1146**

D. Forest species

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
-	-	-		SC	ST	Other	Total
-	-	-	-	-	-	-	-

E. Fodder crops saplings

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
-	-	-	-	-	-	-	-

F. Production of Bio-Products

Name of product	Quantity (Kg)	Value (Rs.)	No. of Farmers benefitted			
			SC	ST	Other	Total
Bio-fertilizers	-	-	-	-	-	-
Bio-food(Spirulina etc)	-	-	-	-	-	-
Bio-pesticide	-	-	-	-	-	-
Bio-agents (Trichocardetc)	-	-	-	-	-	-
Worms (earthworm, silk worms etc)	-	-	-	-	-	-
Bio-fungicide	-	-	-	-	-	-
Others, please specify (Mushroom spawn, Culture Mineral Mixture, Coir pith compost, Cow dung, Cow urine	-	-	-	-	-	-
Total						

G. Production of livestock & fisheries 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)	Vanraja	55.62 Kg	15067.00	00	00	05	05
Japanese Quail	CARI Brown (Japanese Quail)	53	3563.00	00	00	10	10
Turkey	-	-	-	-	-	-	-
Emu	-	-	-	-	-	-	-
Ducks	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-
Piglet	-	-	-	-	-	-	-
Hog	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-
Rabbitry	-	-	-	-	-	-	-
Fisheries	-	-	-	-	-	-	-
Indian carp	-	-	-	-	-	-	-
Exotic carp	-	-	-	-	-	-	-
Mixed carp	-	-	-	-	-	-	-
Fish fingerlings	-	-	-	-	-	-	-
Spawn	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-
Grand Total	-	-	-	-	-	-	-

H. SOIL & WATER TESTING

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

Sl. No	Name of the Equipment	Qty.
1.	PH meter	01
2.	EC meter	01
3.	Spectrophotometer	01
4.	Flame photometer	01
5.	Atomic Absorption Spectrophoto meter	01

6.	Pelican Nitrogen Distillation unit	01
7.	Distillation unit	01
8.	Hot Air Oven	01
9.	Hot Air oven	01
10.	Hot plate	01
11.	Electronic balance	01
12.	Physical balance	01
13.	Digital balance	01

b. Details of samples analyzed so far

Total number of soil samples analyzed till now		
Through mini soil testing kit/labs	Through soil testing laboratory	Total
0	241	241

c. Detail of Soil, Water and Plant analysis at KVK (2023)

Sl.	Analysis	No. of Samples analyzed	No. of Villages covered	No. of Farmers benefitted	Amount realized (Rs.)
1.	Soil	241	15	241	26390.00
2.	Water	-	-	-	-
3.	Plant	-	-	-	-
4.	Fertilizers	-	-	-	-
5.	Manures	-	-	-	-
6.	Food	-	-	-	-
7.	Others (if any)	-	-	-	-

d. Details of World Soil Day Celebration

Sl. No.	No. of Activity conducted	Soil Health Cards distributed	No. of farmers benefitted	No. of VIPs Number of	Name (s) of VIP(s) involved if any	Total No. of Participants attended the program
1.	02	15	25	-	-	25

I. Activities under Rain Water Harvesting structure and micro irrigation system

S.No	No of training programme conducted	No. of demonstrations	No. of plant material produced	Visit by the farmers (No.)	Visit by the officials (No.)
1.	4	1	20,000	700	68

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

1. Name of Seed Hub Centre:

Name of Nodal Officer:	Senior Scientist & Head
Address :	Krishi Vigyan Kendra, Vaishali
e-mail :	head.kvk.vaishali@rpcau.ac.in
Phone No. : Mobile :	 **6287797172**

2. Quality Seed Production of Pulses

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2023						
Rabi 2023	Lentil	IPL -316	600	20	110	C/S
Summer/Spring 2023	Moong	Virat	400	20	50	C/S

3. 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 - 125.54	50.00	3.11	72.43	
2018-19				
2019 - 83.63	0.85	1.19	81.59	
2020 - 94.99	0	2.63	92.36	
2021 - 84.54	0	9.33	84.49	
2022 - 13.88 (Jan-March 2022)	0	64.56	33.86	50 Lakh in FD Account (Including Expenditure)
2023	0	10.83	38.32	

4. Infrastructure Development

Item	Progress
Seed processing unit	**completed**
Seed storage structure	**completed**
Nursery	**completed**
Animal sector	
Mushroom / other enterprises	**completed**
Others	

3.6 PUBLICATIONS, HUMAN RESOUSES DEVELOPMENT & AWARDS & RECOGNITION

A. Details of Research papers published by KVK (with full title, author & journal)

S.No	Item	Details of publication bibliographic form	NASS Rating
1.	Research paper	ARYA project enhancing skill of the rural youth in the prospective of Mushroom Production. Indian Journal of Extension education. Prem Prakash Gautam, **Sunita Kushwah,** Kavita Verma, Sripriya Das, M. S. Kundu, Anjani Kumar &Amrendrakumar	4.48
2.		Unclenching the potentials of global core germplasm for root nodulation traits for increased biological nitrogen fixation and productivity in Chickpea (Cicer arietinum L.)" Indian J. Genet. Plant Breed., (2023); 83(4): 526-534. Chandana B.S, Rohit Kumar Mahto, Rajesh Kumar Singh, K.K. Singh, **Sunita Kushwah,** Gera Roopa Lavanya, Shailesh Tripathi, V.S. Hegde, Rajendra Kumar**.(2023).**	7.00
3.		Adaptation of Water Conservation Technique: Mulching to mitigate water crisis due to River Sand Mining in state Bihar. AATCC, Vol. 11 (4), pp: 1-8. **Sunita Kushwah,** Sripriya Das, Madhu S. Kundu, Swapnil Bharti, Prem Prakash Gautam Kumari Namrata, kavita Verma, Anup Kumar Singh and Mukesh Kumar. (**2023).**	6.00
4.		Enhancing the productivity of rice-wheat cropping system through assured irrigation and risk management: an innovative community approach. Frontiers in Sustainable Food Systems, section Climate-Smart Food Systems. Abdus Sattar, Ratnesh Kumar Jha, Ravindra Kumar Tiwari, Abhay Kumar Singh, Arbind Kumar Singh, Sudhir Das, Ram Pal, **Sunita Kushwaha (2023)**.	10.70
5.		Comparative study on shade dryiny and direct solar drying of mint leaves. AATCC reviewVol. 11 (4), pp1-4. Kumari Namrata, Kavita Verma, **Sunita Kushwah,** Swapnil Bharti, Sripriya Das, Anup Kumar Singh & Prem Prakash gautam. **(2023).**	6.00
6.		Effect of different tillage practices on the growth and yield attributes of potato. AATCC Review (Accepted) **Sunita Kushwah,** Sripriya Das, PP Gautam. **(2023).**	6.00
7.		Impact of Climate Resilient Agriculture Practices: An experience from the marginal farmers of Bihar (AATCC)by **Sripriya Das**, Sunita Kushwah, Prem Prakash Gautam, Kumari Namrata, Kavita Verma, Swapnil Bharti, Anup Kumar Singh, Abhik Patra, Madhu Sudan Kundu, Raj Kumar Jat.(Accepted)	6.00
		Total	**11**

B. Details of Other Publications

Particulars	Details of publication bibliographic form	No of copies published (if any)	No of copies distributed (if any)
Seminar/conference/ symposia papers	**Poster Presentation** entitled Impact Of Climate Resilient Agriculture Practices on the Marginal Farmers of Bihar in 5th International Conference on Sustainable Natural Resources Management under Global Climate Change	Mass	Mass

	5 th international conference climate change and its impact(CCI-2023) Poster presentation on " value enrichment and Nutritional augmentation of wonder food mushroom" 9-11 June 2023	Mass	Mass
	2nd international conference on prospects and challenges of environment and biological sciences in food production system for livelihood security of farmers. Organized by Pragati international Scientific research foundation,Meerut India.dated-18-20 .09.2023.	Mass	Mass
	Best oral presentation award on "Development of mushroom cookies enrichment of nutritional quality and livelihood security" in 2nd international conference on prospects and challenges of environment and biological sciences in food production system for livelihood security of farmers. Organized by Pragati international Scientific research foundation, Meerut India.dated-18-20 .09.2023.	Mass	Mass
	Successfully presented abstract in food security & safety at the international conference on climate smart agriculture and the 4AR.held on 19 th and 20 th October 2023 in khulnaUniversity,Bangladesh**.**	Mass	Mass
	Manus Group Conference and Organizing Committee (Dr. Sunita Kushwah) for moderating at 8th Edition of Global Conference on Plant Science and Molecular Biology (Hybrid Event) held on 11-13 September,2023 in Velencia ,Spain.	Mass	Mass
Total		**6**	
Books			
Book Chapter			
Popular articles	वातावरणीय परिवर्तन के कारण कृषि पद्दति में परिवर्तन , Swapnil Bharti, Sunita Kushwah, M.S.Kundu, Kumari Namrata, Kavita Verma & Anup Kumar Singh		
	मोटे अनाज में रागी का महत्त्व और मूल्य संवर्धन,Kavita Verma, Sunita Kushwah, M.S.Kundu, Sripriya Das, P P Gautam and Anup Kumar Singh		
	प्राकृतिक खेती: अगेती फूल गोभी में नाशीजीवप्रबंधन, Prem Prakash Gautam and Sunita Kushwah		
	सेहत के लिए औषधी, खेती में लाभ, M.S.Kundu**,** Sunita Kushwah **&** Kavita verma	,	
	मोटे आनाज पशु ओं के पौष्टिक भोजन का महत्वपूर्ण श्रोत, Sunita Kushwah, Dr. M.S Kundu, & Anup Kr Singh& Anurag Raj		
	रजनीगंधा की खेती व्यावसायिक दृष्टिकोण से महत्वपूर्ण P.P. Gautam & Sunita Kushwah		
Total		**6**	
success story			
Bulletins			
Agro-advisory bulletins			
Extension Folders			
Technical reports	Annual report, 2022-23 Dr Sunita Kushwah, P.PGautam,Kumari Namrata, Kavita Verma, Dr Anup Kr Singh, Sripriya Das	.	
	Action Plan, 2023-24 Dr Sunita Kushwah, P.PGautam,Kumari Namrata, Kavita Verma, Dr Anup Kr Singh, Sripriya Das		
	7 thExtension Education council report, Dr Sunita Kushwah, Dr.Swapnil Bharti P.P Gautam, Kumari Namrata, Kavita Verma, Sripriya Das		
	ARYA Annual Report, 2022-23 Dr Sunita Kushwah, P.PGautam,Kumari Namrata, Kavita Verma, Sripriya Das		

	Pulse Seed Hub, Progress Report, 23 P. P. Gautam & Sunita Kushwah		
	Monthly Progress Report. Dr. Sunita Kushwah, Kumari Namrata		
	SAC Report, September 2022-23 Dr Sunita Kushwah, P.P Gautam,Kumari Namrata, Kavita Verma, Sripriya Das		
	CRA Progress report, 2023 (Quarterly) Dr Sunita Kushwah, P.PGautam,Kumari Namrata, Sripriya Das		
	CRA Annual report. Dr Sunita Kushwah, Sripriya Das ,P.P Gautam,Kumari Namrata,		
	Zonal Workshop report and ppt, KVK Vaishali		
News letter			
Electronic Publication (CD/DVD etc)	CRA Programme at a Glance by Sripriya Das and Sunita Kushwah		
	Acheivements of KVK.Dr. Sunita Kushwah, Kumari Namrata		
TOTAL		23	

C. Details of HRD programmes undergone by KVK personnel

Sl. No.	Name of KVK personnel and designation	Name of course/training program attended	Date and Duration	Organizer/Venue
1.	Dr. Sunita Kushwah Sr. Scientist and Head	8th edition of global conference on plant science and molecular biology hybrid event Valencia Spain virtually.	11.09.2023-13.09.2023	Valencia, Spain
2.	Dr. Sunita Kushwah Sr. Scientist and Head	5th International conference on climate chaange and its impacts	08.07.2023-09.07.2023	Agricultural and Environment Technology Development Society, U. S. Nagar (AETDS).
3.	Dr. Sunita Kushwah Sr. Scientist and Head	International conference		KhunaAgrucultural University, Bangladesh
4.	Miss Kavita Verma SMS(Home Science	Online three day 5th International Conference on "Climate Change and its Impact(CCI-2023)"	09.06.2023 to 11.06.203	Agricultural & Environmental Technology Development Society
5.	Dr. Swapnil Bharti (Horticulture)	Online three day 5th International Conference on "Climate Change and its Impact(CCI-2023)"	09.06.2023 to 11.06.2023	Agricultural & Environmental Technology Development Society
6.	Miss Kavita Verma (Home Science)	Online three day 2nd International Conference on Prospects and challenges of Environment and Biological Sciences in Food Production System for Livelihood Security of Farmers (ICFPLS)"	18.09.2023 to 20.09.2023	Pragati International Scientific Research Foundation
7.	Mrs. Sripriya Das (SMS, Crop Productiuon)	5th International Conference on Sustainable Natural Resources Management under Global Climate Change	07.10.2023-10.10.2023 (4 Days)	Soil Conservation Society of India, New Delhi through hybrid mode

D. Details of attachment training (RAWE/ FET for ARS/Others) through KVK

Type of attachment	No of student trained	No of days stayed
RAWE	2	55

E. Awards/Recognition

Institutional Award received by KVK

Sl. No.	Name of the Award	Conferring Authority	Amount	Purpose

Award received by KVK Scientists

Sl.	Name of the Award	Name of the Scientist	Value in Amount/	Purpose	Conferring Authority
1.	Best oral presentation award	Kavita Verma	-		Best oral presentation award on "Development of mushroom cookies enrichment of nutritional quality and livelihood security" in 2nd international conference on prospects and challenges of environment and biological sciences in food production system for livelihood security of farmers. Organized by Pragati international Scientific research foundation, Meerut India.dated-18-20 .09.2023.
2.	Certificate of recognition	Dr. Sunita Kushwah	-		Successfully presented abstract in food security &safety at the international conference on climate smart agriculture and the 4AR.held on 19 th and 20 th October 2023 khulnaUniversity,Bangladesh.2023 khulnaUniversity,Bangladesh
3.	Certificate of moderator	Dr. Sunita Kushwah	-		Manus Group Conference and Organizing Committee for moderating at 8th Edition of Global Conference on Plant Science and Molecular Biology (Hybrid Event) held on 11-13 September,2023 in Velencia ,Spain. Global Conference on Plant Science and Molecular Biology (Hybrid Event) held on 11-13 September,2023 in Velencia ,Spain.
4.	Certificate of recognition	Dr. Sunita Kushwah	-		Manus Group Conference and Organizing Committee for moderating at 8th Edition of Global Conference on Plant Science and Molecular Biology (Hybrid Event) held on 11-13 September,2023 in Velencia ,Spain. Global Conference on Plant Science and Molecular Biology (Hybrid Event) held on 11-13 September,2023 in Velencia ,Spain.
5.	Appreciation Certificate	Dr. Sunita Kushwah	-	Best performer as a CBBO	NCDC
6.	Appreciation Certificate	Dr. Sunita Kushwah		Best Performer Scientist and doing well in their field	DM,Vaishali
7.	Women Scientist Award	Miss Kavita Verma	-	-	2nd international conference on prospects and challenges of environment and biological sciences in food production system for livelihood security of farmers. Organized by Pragati international Scientific research foundation, Meerut India.dated-18-20.09.2023.

Award received by Farmers

Sl.	Name of the Award	Name of the Farmer	Address	Contact No.	Aadhar No.	Amount	Purpose	Conferring Authority
1.	Innovative Kisan Puruskar 2022	Mr. Prbhu Dayal	Faridpur, Rajapakar, Hajipur, Bihar	9801236047		--	Organic farming	Dr.RPCAU ,Pusa
2.	2 nd Prize in Mushroom production at Sonpur Mela	Mrs. Meena Kushwaha	Lodipur, Ward No. 31, Hajipur, Vaishali	7272941323	240201809745	--	Mushroom production	Govt. of Bihar, Deptt. of Agriculture
3.	District Millionaire Farmer of India award ,2023	Mr. Rajeev Ranjan	Sarai, Hajipur	9123161948		--	Button Mushroom production	Krishi Jagran Awards, MFOI
4.	Best Farmer Award, sonpur mela	Sanjeev Kumar	Chakwara, Sarai,Vaishali	9852109928	-	-	Cauliflower Seed Production	Govt. of Bihar
5.	First prize in button mushroom at mujhapparpur	Mrs janak Kishori	Bidupur	8709759215			Button Mushroom production	Govt. of Bihar, Deptt. Of Agriculture
6.	Best FPO Award	Diwan FPO	Vaishali Chintaamni	-	-	-	Honey Production	Govt. of Bihar

Innovative Kisan Puruskargiven to Mr. Prabhu Dayal by the Hon'ble Vice-chancellor

District Millionaire Farmer of India award given to Mr. Rajeev Ranjan by Krishi Jagran

2nd Prize in Mushroom production at Sonpur Mela

Award received by Janak Kishori in three daysmela at Muzaffarpur

3.7. TECHNOLOGY DEVLOPMENT

A. Give details of Innovative Methodology/Process/Product or Innovative Technology developed by KVK

Sl. No.	Name/ Title of the technology	Brief details of the Innovative Technology	Impact of the technology	Status of commercialization/Patent
01.	Intercropping of Elephant foot yam and Green gram	In this method, at first the field was cultivated properly using cultivator and rotavator and beds were prepared manually using manual labour. Basal application of mustard cake @ 5-6 q/ha, 110 kg/ha DAP, 55 kg/ha Urea and 55 kg/ha MOP was done. Elephant foot yam corms were treated with a mixture of carbendazim and cow dung in the ratio of 0.5:20. Each bed was dug and Elephant foot yam corms have 1-2 eye was put inside the hole at a depth of 10-20 cm and covered with soil. After that moong seeds were planted along the side the beds and in furrows. A total of 7-8 irrigations were provided in the entire season and no herbicide or insecticide was applied. The yield obtained was 452 q/ha for Elephant Foot Yam and 12.5 q/ha for green gram.	This intercropping is beneficial for places where elephant foot yam which is a long duration crop is taken as a major crop and a smaller duration crop like moong can be taken in between for additional yield and better soil conditions.	Yes 10 farmers have adopted by seeing this technology. 
2.	**Group dynamic approach**	Formation of two farmer's producer organizations in two blocks of Vaishali district namely **Diwan Farmer Producer Organization Pvt. Ltd.** inVaishali block for Honey production and Integrated farming system and **Samriddhi Farmer Producer Organisationpvt. Ltd.** inBidupur block for vegetable production. To strengthen the farming community by assure food chain supply and market linkage.	Farmers mobilization in Diwan FPO-415 Samridhi FPO-405	Yes. MOU Signed between Vaishali FPO and Khadi instituton of marketing of honey
3.	**Urban Horticulture**	**Urban horticulture** is the science to study of the growing plants in an urban environment. It focuses on the functional use of horticulture so as to maintain and improve the surrounding urban area. Urban horticulture has seen an increase in attention with the global trend of urbanization and works to study the harvest, aesthetic, architectural, recreational and psychological purposes and effects of plants in urban environments.	One of the obvious health benefits of gardening is the increased intake of fruits and vegetables. But the act of gardening itself, is also a major health benefit. Gardening is a low-impact exercise, which when added into daily activities, can help reduce weight, lower stress, and improve overall health	10 farmers adopted in the urban garden 

4.	**Pinching technology in Marigold**	Farmers are growing marigold in large scale in vaishali district of Bihar using indigeneous methodology. They plant the seedlings and within a period of one and a half month the plants start to bear buds which further becomes flower.In these methods the plants does not bear more branches that is there is less secondary growth in the plants thereby resulting in less number of flowers ultimately causing reduction in yield.ore, KVK Scientist made the marigold flower growers acquainted with the technology of pinching. Pinching help out the plant to prevent the plant to grow upright and helps in secondary growth. Pinching is done using the thumb and forefinger to pinch out the top growth of the plants.	Pinching the tip of plants at 30 and 40 days after planting of seedlings encourages the plant growth with more number of branches which ultimately increases the number of buds thereby enhances the flower yield percentage by 11 percent . Ultimately the farmers were profited.	Yes 11 farmers have adopted this technology in 5 hactares
5.	**Zero Tillage Potato**	Potatoes were sown on farmers' fields without tillage. In this technique, potatoes are spread along the line and after adding vermicompost, they are covered with paddy straw, after which sprinkling of water is required. In this method, the moisture already present in the soil is used and as we all know, a large amount of fertilizer is used to grow the potato crop, but a very small amount of fertilizer is used for sowing with this method. By sowing potatoes with this method, farmers save a lot of time, the cost is also very less and the production is 1.5 has been found to exceed.	This technology requires very less number of labours.Thus, preferred by farmers.	10 farmers have adopted by seeing this technology. 
6.	**Solar Dryer**	Direct solar dryer is a low cost dryer ad it was made with locally available material.The top end of this dryer is attached to exhaust fan which is operated by a solar cell (5W). The exhaust fan reduces the humidity inside the chamber. A transparent glass (Thickness 5 mm) is used to cover top of the dryer is to prevent heat losses. Direct Solar dryer is constructed with locally available ply wood (Thickness, 12 mm) and inside surface is black painted. The side panel is inclined with 15^{o}.The maximum temperature inside the temperature is reached 57 degree celcius and minimum relative humidity is 17 %.	02 Solar dryer fabricated 	Yes, File was put up for price fixation at RPCAU,Pusa

7.	**Banana flour**	The Vaishali district area around the Ganga basin is known for banana production. The major varieties are Alpan, Chinia, Malbhog, muthia and kothia in Bihar. The Farmers have less knowledge of banana Flour production technology. Utilization of banana for production of Banana flour is a possible resource to make healthy functional food with high resistant starch and low glycemic index. Banana flour is produced with green Banana that are peeled, Chips cutting , dried and then ground. It can be used as a grounded banana flour for value added products like baby food and as an ingradient in smoothies (Bnana shake).It can also be used as an calf feed of milk replacer.It is used in bakery product.	2 trainings conducted for banana flour preparation 	
8.	**Banana Fiber paper**	<u>Process flow chart</u>**:** 1. Extraction of banana fiber from the pseudo stem of the plant is done by banana fiber extraction machine. 2. After extraction, the fibers are made to cut into fine chops in to 3-4 cm. 3. Then it is allowed to boil with sodium hydroxide for an hour. 4. The mixture is then cooled for about 1 and half hour to make a thin sheet **<u>Properties:]</u>** 1. Antimicrobial properties 2. Highly water absorbing 3. Biodegradable 4. Ecofriendly	2 trainings conducted  	
9.	**Food Processing Lab**	**Purpose:** food processing lab was established at Krishi Vigyan kendra, Vaishali for the training and demonstration among the farmers and rural youth. This lab is beneficial for food product development and value addition in fruits and vegetables. It is also helful for entrprenureship development in food processing sector.Various equipment was purchased like cabinet dryer, Micro-wave oven, Commercial Mixture, Box type mill, pulverizer,Mixturegrinder,banana chips cutter, weighing balance, sealing machine and miscellaneous items used in lab.	5 trainings conducted on food processings  	

B. Give details of Organic farming practiced/Indigenous Technology/ITK practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

Sl. No.	Enterprise	Brief details of the ITK Practiced	Purpose/Impact of ITK	Impact of the technology
1.	Potato	Spraying of neem oil and ginger garlic extract	Insect Pest Management	Positive effect in control of diseases and pest under Organic Farming

Give details of by the farmer (if Any)

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1.	Vegetable production (Cauliflower, Pumpkin & Okra)	50	Cauliflower – 250 q/ha Pumpkin – 100 q/ha Okra – 100 q/ha	110	Yes
2.	Brinjal	30	300 q/ha	80	Yes
3.	Tomato	20	250 q/ha	50	Yes
4.	Cucurbitacae	15	150 q/ha	40	Yes
5.	Banana	50	100 t/ha	110	Yes

C. 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.	PRA	To assess situation based need.
2.	Farm & Home visit	To gather information.
3.	Interaction/Group discussion	To assess needs of farmers.
4.	Survey for Gender and Nutrition	To asses needs and food security
5.	Online farmer interaction	To gather information and know the present senerio

4. IMPACT

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

Name of specific technology/skill transferred/training	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Natural Farming	160	15	25575/-	20865.00
Uses of Fruit Fly Trap in cucurbits vegetable	25	40%	21000/Person	31000/Person
Uses of Pheromone trap in Brinjal and Cauliflower	25	40%	25000/Person	37000/Person
Leaf Colour Chart (LCC)	52	25	28575/-	33865.00
Fruit fly trap	15	5%	22,000/person	29,000/person
Pinching technology of marigold	25	7%	36000/-	50000.00
Mushroom Production	90	60%	30000/-	90,000.00
Nursery raising	90	10 %	15000 /-	30000.00
Use of Hermatic bag for storage of wheat	20	100%		

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
(RCT) Zero Tillage	40% farmers of Patepur block adopted zero tillage technology because of more return, saving on fertilizer, seed, irrigation, labour charges etc.
Laser Land Levelling	A total of 185 acres of land (farmer's field) is levelled using laser land leveller machine under CRA Project resulting in uniform water application and other resource saving. Many more farmers have adopted this technology in their crop field after seeing the effect of this technology in demonstrated plots.
Natural Farming	About 50 farmers in Harpur Mukund Village of Rajapakar block, 50 farmers of Loma Bejha village of Hajipur block have adopted Natural Farming practices for cultivation of vegetable crops.
IPM Technology	40% of trained farmer adopted the IPM technologies in vegetable and fruit cultivation. Farmers are producing chemical free vegetables by the use of Fruit fly trap and Pheromone traps.
Oyster and Button mushroom production	25 % trained rural youth adopted mushroom production technology round the year
Vermicompost	Production of 85360 qt to 140670 qt.
Quail Farming	Small scale quail farming in rural landless women with 200 birds capacity

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.	RCT (Zero tillage)	Conservation of time, water, seed and diesel	Transfer of technology has enhanced the income of farmer by 25%
2.	Raised bed Potato using Potato planter machine	Saving of labour and improvement of yield	It saves labour (upto 35%) as earthing up is not required if potato is sown with raised bed machine and increases yield by 10-15%.
3.	Levelling of land by laser land leveller	Saving of irrigation, increase in farming area, productivity, saving of fuel and fertilisers	Saving of irrigation, 35% increase in farming area, 5-10% increase in productivity
4.	Pinching in marigold	Due to this practice the number of branches increases as a result more number of buds therefore more yield to farmers	Increase in income to approx twice.
5.	Raising nursery in potrays and polybags in vermicompost and cocopeat	No water logging No incidence of soil borne disease Ease in handling The media has good water absorbing capacity	More survival of the plants (25%) in Potrays and Polybags as compare to beds.
6.	Integrated Pest Management	Bio intensive management of insect, cost effective and time saving approach	Eco- friendly management practices for borer complex in Okra, Brinjal, Tomato etc.
7.	Raised bed maize	Improves yield, Saving of seed fertilizer and irrigation	ImprovesYield (5-10%), Saves Seed and fertilizer(25-30%), Saves Irrigation(30-35%)
8..	Levelling of land by laser land leveller	Saving of irrigation, increase farming area, productivity, saves fuel used in irrigation, saving of	Saving of irrigation,(35%) increase farming area(3.5%) productivity(50%), saves fuel

		labour Cost.	used in irrigation,Reduced operating time (10%)
9.	Fruit Picking and pruning machine	Saving of labour, time and cost effective	Saving of labour, time and cost effective
10.	Potato planter	Saving of labour, seed and fertilizer and time and increase in yield	Saving of labour (60-70%) and increased yield(10-15%)
11.	Nutri Garden	The nutigarden establishment at the backyard of house and in the farm helps women to get fresh vegetables throughout the season.theamout spent towards purchase of vegetables has been reduced. Consumption of leafy vegetables increased.	The percentage of adequacy of vegetables after the implementation has increses 37 %. Protection to bodies against deficiency diseases and save money.
12.	Mushroon and Ragi cookies	It is a nutrient rich Cookies contains like Protein, Calcium, Iron etc. Enrichment of cookies with mushroom flour would be achievable and valuable to provide people with nutracitical rich products in their daily life.	Mushroom Ragi cookis are rich in Vitamin D, Proteins, Fiber and minerals. Thease cookies can prevent Vitamin deficiency. It helps to stengthens bones and teeths.
13.	Solar dryer	It allows fruits, vegetables, spces and other items to be preserved for a longer time and shelf life extension.	More economical, Most heigine, ecofriendly way. low operation and maintenance cost. less product contamination with a transparent cover.
14.	Hermatic bag	It protects the seed and grains from the outside atmosphere and microorganisms.it prevents post harvest losses in airtight container that stricts organism such as insects and microorganisms.it preserves grain without the need of chemical fumigants.	Minimal seed damge, maintenance of moisture, extension of shelf life of seed.

4.4. <u>Details of entrepreneurship development</u>

i. Entrepreneurship development	
Name of the enterprise	**Goat farming**
Name & complete address of the entrepreneur	Sri Satrudhan Mahto, Vill.-MansinghpurRajauli, Hajipur Distt.- Vaishali Mob. No. 7352957452
Role of KVK with quantitative data support:	Training and technical support.
Timeline of the entrepreneurship development	One year from January, 2022
Technical Components of the Enterprise	Selling goat kits round the year specially Bakrid, Dushara & Holi festival. Having total strength 60 goat.
Status of entrepreneur before and after the enterprise	Income enhanced many folds and become popular among rural youth
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 heavy demand of goat kid and meat (Chevon) unable to supply the demand of market.
Horizontal spread of enterprise	Yes

ii. Entrepreneurship development	
Name of the enterprise	**Banana fiber production**
Name & complete address of the entrepreneur	Sri Jagat Kalyan, Vill.-Rampur Nausahan,Block-Hajipur,Vaishali,Bihar,Mob-7026771073
Role of KVK with quantitative data support:	Training and technical support. Banana fiber extraction machine has been provided under ARYA project
Timeline of the entrepreneurship development	One year from March, 2022
Technical Components of the Enterprise	Banana fiber product has good market potential its demand inside and outside India is heigh.The fiber can also used for fabric making and paper pulp industry ,sanitary napkin manufactures and textile industry.
Status of entrepreneur before and after the enterprise	Income has enhanced many folds and become popular among rural youth
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Different quality of banana fiber is produced and high demand in market in Flipcartand export in other states
Horizontal spread of enterprise	Yes

iii. Entrepreneurship development	
Name of the enterprise	**Nursery**
Name & complete address of the entrepreneur	Sanjeev Kumar, PanapurLanga
Role of KVK with quantitative data support:	Training, providing planting material, and guidance
Timeline of the entrepreneurship development	Five month from February, 2020
Technical Components of the Enterprise	FYM, Vermicompost, Plants, Pots
Status of entrepreneur before and after the enterprise	Previously Sri Sanjeev Kumar used to work in his own field but now he can earn a good profit by establishment of this 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):	Healthy planting material and seasonal flowering plants are being made available to the customer
Horizontal spread of enterprise	Yes.
Entrepreneurship development	
Name of the enterprise	**Button Mushroom**
Name & complete address of the entrepreneur	Mina Kushwaha
Role of KVK with quantitative data support:	Training, providing planting material, and guidance
Timeline of the entrepreneurship development	3 years
Technical Components of the Enterprise	FYM, Vermicompost, Plants, Pots
Status of entrepreneur before and after the enterprise	Previously Rajeev Ranjan was doing job. He left the job and strated mushroom production unit.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	To provide fresh mushroom. 3 q/day
Horizontal spread of enterprise	80 farmers established unit under his guidelines with the technical support of KVK.

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

Success Story 1:Training , Encoragement & motivation made life worth living through Banana fiber craft

Name of farmer	 Smt. Neelam Devi
Address	Village- Rajapakar, Block- Rajapakar, Dist- Vaishali
Contact details (Phone, mobile, email Id)	7654662166
Landholding (in ha.)	1acre
Name and description of the farm/ enterprise	Jan Jagrity Shelf help group
Economic impact Social impact Environmental impact	5:1(B:C ratio) Famous Wealth from waste(Value addition in banana fiber)
Horizontal/ Vertical spread	More farmers are adopting

1. Introduction:

Smt. Neelam Devi belongs to a poor family and leaves with two children in a small house. She was running her house as a helpless woman surrounded by financial problems but she had some desire to do something and gave higher education to her children. Then she started looking for a way to solve her problems and in this connection she came in contact with the Krishi Vigyan Kendra Vaishali and shared her situations with the scientist, then she was told about banana fiber handicraft and artisans, only then she told that I can make many types of handicrafts from this banana fiber. In view of her interest in handicraft making, Some banana fiber was given to him by the Krishi Vigyan Kendra Vaishali to make handicrafts, due to which she made quite a beautiful handicrafts of different types and displayed in Krishi Vigyan Kendra. In view of their hard work and dedication, many orders were also given to make handicrafts by the KVK, which she made available within a period of time. After this, she got a Rs 25000.00 against the work of 15 days only and after getting this amount in a short period of time she is very excited and is adding many women with her to generate a good source of income.

Banana fiber handicraft item shown by Neelam Devi to Senior Scientist & Head KVK, Vaishali

Success Story 2 :<u>Golden revolution: Future prospective of honey growers</u>

Name of farmer	 Sr
Address	Village-Nayaganj,Block-Sahdai,Dist-Vaishali
Contact details (Phone, mobile, email Id)	9955684773
Landholding (in ha.)	1.5 acre
Name and description of the farm/ enterprise	Bee keeping
Economic impact Social impact Environmental impact	4:1(B:C ratio) Famous Ecofriendly
Horizontal/ Vertical spread	More farmers areadopting

1. **Introduction:**

Sri Vijay Kumar Sah, aged 42 years is one of the poor resource farmers. He was living with his 5members of family. Previously he was working on labour. He could not able to manage his basic requirements and essential home commodities for his family.

Sri Vijay Kumar Sahcame in contact with SMS (Plant Protection) during need Based survey of the village for the purpose of conducting training programmer for the unemployed rural youth Under ARYA Project in year 2019. It was found that the village covered by Oilseed and vegetable crops. Due to small size of land holding, resource poor and ecological situation, Sri Kumar was advised for adopting Bee Keeping to utilize very precious agricultural area and Horticultural crops. Initially he refused to start Bee keeping due to fear with rearing of honey bee. After continuous persuasion and training given to him under ARYA Project 5 (Five) boxes of Honey bee provided to the Mr. Kumar from the KVK. He taken 75 boxes on finance and multiplied 75 boxes into 335boxes. He earned Net Rs. 800000.00 from this now he has able given good education to his children in spite of manages house hold commodities to his family.

2. **Motivation to Farmers:**

Sri Vijay Kumar Sahis an example for other resource poor unemployed rural youth in village. Many unemployed youth are visited his bee keeping unit and start the bee keeping. Inspired from his venture all the villagers of his village engaged in bee keeping and always contacted to KVK's Scientist about the beekeeping.

Success Story 3:Woman inspiring other mushroom growers

Name of farmer	 Sangeeta Kumari
Address	Village-Rampur Bakhra,,Jarang Block-Lalganj Dist-Vaishali
Contact details (Phone, mobile, email Id)	7992313062
Landholding (in ha.)	3.0 acre
Name and description of the farm/ enterprise	Lichwi Mushroom Farm
Economic impact Social impact Environmental impact	3:1(B:C ratio) Famous Ecofriendly
Horizontal/ Vertical spread	More Women farmers are growing mushroom in Vaishali district

Introduction

Sangeeta Kumari aged 52 years Village-Rampur Bakhra,Jarang Block-LalganjDist-Vaishali. She has graduated in BA Home Science.She was economically weak.Previously she had started stiching business.She could not able to manage his basic requirements and essential home commodities for her family. She has two doughter.Her husband was working in factory. But unfortunately the fatory was permanentaly closed. He was jobless.her family was suffering from financial crisis. She decided to do smething for livelihood.Then She got in touch with Senior Scientist andHead, KVK Vaishali She motivated her and got information about mushroom production. Then She got training on mushroom production from KVK Vaishali.After some time she started her lichwi mushroom farm and srated to produce Oyster mushroomin 1000 bags and Milki Mushroom 300 bags and generated good souce of income.then she got training on valueaddition in mushroom.Now she is producing different types of products from mushroom like mushroom chocolates, Mushroom cookies, mushroom bhujia, mushroom nugeets etc.Currently she is earning 12 lakh per annum from selling their products in local markets and other district. Her standard of living was quietly changed.She became lady icon of mushroom farming.Now she provides employment to villagers

.

Entreprenure at own Lichwi Mushroom farm with oyster mushroom bag

Displaying mushroom products at Mela

Success Story 4: Textile & Clothing – A way for the capacity development of women

Name of farmer	 Mrs Pinki Devi
Address	Village-Gurmia,,Block-Hajipur Dist-Vaishali
Contact details (Phone, mobile, email Id)	9939978972
Landholding (in ha.)	3.0 acre
Name and description of the farm/ enterprise	Jivan Jyoti
Economic impact Social impact Environmental impact	2:1(B:C ratio) Famous
Horizontal/ Vertical spread	More Women are motivated

Introduction

About 25 women from Gurmia village of Hajipur Block got training from KVK Vaishali on the use of sewing machine, preparation of clothing items and different types of stitching. These women were housewives with no income and belonged to remote areas where women are not allowed to go out and work. However, out of these, twenty-two (22) women formed a Self Help Group (SHG) named Jivan Jyoti with the aim of starting a Sewing Business and bought 22 domestic sewing machines for each member of the group. They started doing the business in their own village after taking training from the KVK. Presently, it has been 2.5 years of running their business together and the group is earning about Rs 3.3 lakh per year which splits upto Rs. 2500/- for per member per month.

Economics of business:

1. **1st Year**

Particulars	Value (Nos./ Rs.)
Total number of members in Group involved in sewing work	22
Average Monthly Income of each member	2500.00
Total Monthly Income of Group	55000.00
Total Annual Income of Group (Gross Income)	660000.00
Cost involved in production (Machinery expenses, labour, thread & needle & miscellaneous)	444400.00
Net Income	215600
B:C Ratio	1.485149

2. **2nd year onwards**

Particulars	Value (Nos./ Rs.)
Total number of members in Group involved in sewing work	22
Average Monthly Income of each member	2500.00
Total Monthly Income of Group	55000.00
Total Annual Income of Group (Gross Income)	660000.00
Cost involved in production (Machinery expenses, labour, thread & needle & miscellaneous)	323400.00
Net Income	336600.00
B:C Ratio	2.040816

Conclusion:

By starting the sewing business, these women are earning money and supporting their family members for better livelihood. This has also boosted their confidence and improved their standard of living. They are treated with respect in their respective families and village for earning money with their own talent and hardwork. This was possible with the support, motivation and skill provided to them from the KVK. This is a kind of women empowerment that has been promoted by our KVK.


Women are doing stiching works with SHG group members

4.6. Any other initiative taken by the KVK

(A)CRA Programme: Popularization of Climate based cropping system

The project "Climate Resilient Agriculture" is sanctioned by the Government of Bihar to promote the use of climate resilient technologies such as mechanised sowing, laser land levelling, cultivation of nutri-cereals and climate resilient varieties of different crops etc. in agriculture. Five villages namely Neerpur, Bardiha, Bajitpur, Rasalpur and Repura of Patepur block are selected for demonstrations under this project. A total of 595 acres area in kharif season and 623 acres area in rabi season is demonstrated under different crops with different climate resilient agriculture technologies in the above mentioned five CRA villages. The performance of the demonstrated technologies under this project is compared with conventional farmer's practice by regular and timely data collection through crop cutting experiments in each cropping season. Different training programmes, seminars, exposure visits, workshops and Kisan mela are organised time to time to spread the technologies to a greater number of farmers and multiply the benefits.

Rabi 2022-23				**Summer 2023**				**Kharif 2023**			
Crop	Intervention	**Area (acres)**	**Productivity (q/ha)**	**Crop**	**Intervention**	**Area (acres)**	**Productivity (q/ha)**	**Crop**	**Intervention**	**Area (acres)**	**Productivity (q/ha)**
Wheat	Zero Tillage	400	56.50	Green gram	ZT	189	16.45	Paddy	ZT DSR	48.5	45.55
Wheat	Raised Bed	119	60.00	Elephant Foot Yam + Moong	Bed planting and Intercropping	0.1	452 q + 12.5 q	Paddy	Line sowing	269.5	45.52
								Paddy	Drum seeding	23.5	40.25
Chick pea	Zero Tillage	10	14.45	Elephant Foot Yam + Maize	Bed planting and Intercropping	0.1	440 q + 65 q	Paddy	PTR	174	39.78
Lentil	Zero Tillage	11	18.20	Dhaincha	Broadcasting	5	For green manuring	Paddy	Raised Bed	2.5	47.85
Maize	Raised Bed	44	85.50					Foxtail millet	Line sowing	11	10.68

Mustard	Line sowing	24	20.86					Finger millet	Line sowing	12	15.56
Potato	Raised Bed	3	195.00					Pearl millet	Raised Bed	5	24.52
Barley	Zero Tillage	6	37.20					Maize	Raised Bed	21.5	55.79
Potato + Maize	Inter cropping	5	186.45 + 60.25					Soyabean	Raised Bed	1.5	17.55
								Pigeon pea	Line sowing	2	Standing crop
		623				**176**				**571**	

Details of Capacity Building under CRA

S. No.	Details of the Program	No. of events	Male	Female	No. of Beneficiaries
1.	Training programs	05	88	22	110
2.	Field Days	05	389	116	505
3.	Exposure visits/Travelling Seminars	-	-	-	-
	Total	**10**	**477**	**138**	**615**

KVK and BISA Scientist visited to Zero tillage wheat crop

Director Agriculture,Govt.of Bihar along with KVK Scientists visited CRA village

Spraying of pesticides by drone technology

Dr. Ravi Gopal, Dr. Arun Joshi, Dr. Raj Kumar Jat & Director, DEE at one day work shop on laser land lavelling

5.LINKAGES

5.1. Functional linkage with different organizations

S.No	Name of organization	Nature of linkage
1.	DRPCAU, Pusa, Samastipur	This is the host organization provided financial support, research and teaching programme implementation. RAWP executed by the KVK for the students and KVK has many projects for multiplication trials like varietal evaluation of pointed gourd, biofortified wheat, state varietal trial of maize etc. Administrative control also.
2.	ICAR –RCR- Patna	Scientists interface Research and technical information. One acre trial of Faba bean conducted in CRA village
3.	ATARI, Zone IV, Patna	Financial assistance and project implementations.
4.	DWMR, WALMI, Patna	Participation in trainings
5.	Central Potato Research Institute Phulwari Sharif, Patna	Linkage for technology transfer through FLD, OFT and multiplication of potato varieties among farmers. KVK Vaishali popularized Kufri Lalit, KufriLalima and KufriKhyati in this area. In the year 50 q breeder seed provided by CPRS and KVK produced 250 Foundation seed.
6.	IARI, New Pusa farm, Samastipur	Joint Implementation of technology through demonstrations. Papaya variety PusaNahna popularized.
7.	Indian Institute of Pulses Research, Kalyanpur, Kanpur	Joint Implementation for Seed Hub Programme and seed production. KVK, Vaishali granted Rs.1.5 cr. For execution of project.
8.	Coconut Development Board, Patna (regional Office)	Joint Implementation of extension programmes like trainings and Kisan Gosthi.
9.	District Level officials, such asDistrict Magistrate, DDC	Task fore meeting, advisory board meetings and technical support to the department.
10.	District Agril. Department , Vaishali	Joint field visits, inspections, participation in meeting and technicalsupport by KVK.
11.	District Hort. Department, Vaishali	Horticulture entrepreneur development they provided subsidy and other govt. grants to farmers on the recommendation of KVK. Horticulture Exhibition and Horticulture shows organized and KVK farmers awarded by the department.15 Awards received by KVK, also grant subsidy to establish hort. Units. 1. Mr Rajeev Ranjan, KVK Trained farmer got Rs.20 lakh subsidy to start button mushroom unit 2. Smt Manorama Singhreceived Rs.30 Lakh in subsidy for mushroom production unit. 3. Mushroom growers 150 farmers received subsidy for oyster mushroom production on the recommendation of KVK.
12.	District Fishery Department, Vaishali	Trainings and farmers mobilization.
13.	District Forest Department, Vaishali	Association for auction of farm trees, trainings and joint plantation programmes. 3000 plants distributed among farmers.
14.	ATMA, Vaishali	Joint Implementation of field visits, trainings, Kisan mela and demonstrations. Fund received for technology refinement Rs. 3.75 Lakh.
15.	Plant Protection Officer and Block level Agril. Officer	Kisan Goshthi, Training Programmes, Kisan Melas and demonstrations and technical help of the farmers, joint visits.
16.	DAHO, Vaishali	District Animal Husbandry Officer conducted joint programmes with KVK. Animal Health Camp 15 conducted and technical support by KVK. Trained farmer's received subsidy for establishment of Dairy.
17.	RLBCU, Jhansi	For seed input in Seed hub programme and technical support. 15 q Lentil Seed provided in 2020.
18.	BISA, Pusa	For technical and financial support.
19.	CSISA, CIMMYT	For technology intervention Rs. 2 lakh granted
20.	IARI, Deptt. Of Plant breeding & Genetics	Multiplication trial for screening of 300 germplasms in Bihar location. Technical support.

21.	NRC, Litchi, Muzaffarpur, Bihar	Technology dissemination. 1 technology Girdling in litchi is on going since to years and technical support.
22.	CFTRI, Mysore	Banan processing technical support to the banana growers in the operational area of KVK. Ready to conduct one project with KVK on processing.
23.	ICDS, Patna	Project implementation with rural women farmers of the district.
24.	JEEVIKA, Bihar	For SHG capacity building training programmes
25.	BAMETI, Patna	For trainings and capacity building programmes
26.	Doordarshan, Patna	For live seminars and TV talk for the farmers.
27.	Radio Station, Patna	Radio talk and programme recordings
Fertilizer & Pesticide Companies		
28.	Indogulf Cooperation	Kisan Mela sponsorship and mobilization of farmer. Linkage for seed, fertilizer & pesticide inputs, trainings programmes, farmers mobilization, exhibitions and demonstrations.
29.	Rastriya Chemical Fertilizers.	
30.	Indofil chemical Limited	
31.	Hindustan Chemicals.	
32.	Chambal fertilizer	
33.	PPL	
Private Seed Companies		
34.	Godrej Agrovet Pvt. Ltd.	Seed Input & farmers mobilization Kisan mela sponsorship.
35.	Bayer Crop Science Ltd.	Pescide& Seed Input linkage
36.	UPL, Ltd.	Seed input linkage. Maize trials provided to the Farmers.
37.	Kaveri Seeds Pvt. Ltd.	Seed input linkage
38.	Crystal Crop Science Ltd.	Seed & pesticide input
39.	Kanchan Seeds Ltd.	Seed input Linkage & Kisan Mela
40.	Nuziveedu Pvt. Ltd.	
41.	Excel India Ltd.	Pesticide linkage & Exhibitions
42.	Dhanuka	
43.	Aga khan Rural Support Programme	For trainings and extension work. Farmers mobilization. Travelling seminars in CRAvillage 500 farmers mobilize by them. Capacity building training programmes like training for goat farming, Mushroom cultivation, Quail Farming etc. for the rural women farmers.
44.	BASIX	For trainings and farmers mobilization in FPO formation and its support at Vidupur.
45.	Mahindra Samruddhi, Vaishali	Association for mechanization in operational area of KVK.
Public Institutions		
46	Khadi Gramodyog Sangh.	Women farmer mobilization to the KVK activities and training programmes
47	Nehru Yuva Kendra, Patna	For training of rural youth
48	RUDSET, Vaishali	For the training support & to build up entrepreneurship.
49	IFFCO, Hajipur	Demonstrations for NANO fertilizers in the interest of farmers and environment.
50	COMFED	Participation in meeting, conducting training & Demonstration and regular announcement of the activities of the KVK through the wall Magazine PRATIBADH. Associated dairy farmers.
51	KRIBHICO	Fertilizer input and extension activities
Financial Organization		
52	Bank of Baroda, Hajipur.	Financial Linkage and participation in training.
53	Regional Rural Bank, Hajipur.	
54	Central IPM, Punaichak, Patna.	IPM Demonstration. 3 ha demonstration conducted in the adopted village of KVK
55	NHM (National Horticulture Mission), MMM (Micro- Mode Management) & NHB	For training demonstration & seed production & popularization of vegetable/ horticultural crop. Protected cultivation developed through NHM &NHB. Training pruning machine provided by NHB approx.30 ha orchard pruned by this machine. 300 farmers seen demonstration of this machine.
NGO's		
56	World Vision, Vaishali	Trainings and Farmers mobilization. Provided sanitation kit to 100 farmers during COVID,2020 at KVK. Travelling seminars conducted with the help of them. 200 farmers they mobilize for the KVK.
57	MamtaMahila Kisan Club	Mobilization of women farmers and trainings for rural youth.
58.	Kishore Mitra, Vaishali	Trainings for animal husbandry and farmers mobilization

59.	Bihar Enterprenurship Association	Training for entrepreneurship development
Private News Channels		
60	Zee. TV, Vaishali Bihar	
61	Vaishali News Channel	
Print Media		
62	Hindustan News paper	Publication of extension activities of KVK and help in technology dissemination among the mass
	Dainik Jagran News paper	
	Dainik Bhaskar News Paper	
	PrbhatKhaber News paper	
Others		
63	Dr. C. V. Raman University, Vaishali	RAWE programme association. 2 students conducted RAWE at KVK, Vaishali.
64	Linkage with FPO's Turki Rasalpur Farmers producer Organization.	Technical support by KVK. 12 FPO's for farmer's mobilization. Technical support by KVK
65	Lovely ProfeffsionalUniversity, Lucknow	RAWE programme association.
66	NIAM, Jaipur	Trainings support
67.	NCDC	For FPO formation
68.	AUTOMATE	For demonstration of rain gun
69.	BREDA	Extension activities

KVK, Vaishali has good convergence with the all line departments. District Govt. departments, Private agencies, NGO's, FPO's, FIG and JEEVIKA played an important role in KVK functioning.

5.2. Details of Externally funded project &Programmes during 2023 (Eg. 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.)
NIL				

(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.)
Kishan BhagidariPrathmiktahamari campaign	Mela	26.04.2022	ATARI	99318.00
LifE Program	Awareness program	20.05.2023 to 05.06.2023	ATARI	50000.00
Viksit Bharat Sankalp Yatra	Awareness program	29.11.2023 to 31.12.2023	ATARI	200000.00
One day training	Training	18.08.2023	NCDC	

6. PERFORMANCE INDICATORS

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.	Vermi-compost	2018	90	Vermicompost	Vermicompost	50 q	7000	16242.00 + Rest produce in stock	Good quality product
2.	Quail unit	2019	50	CARI Brown	Adult birds, chicks and egg	53 Adult birds+ 311	1500	9393	Demonstration purpose

						Eggs+ 93 Chicks			
3.	Poultry	2023	80	Varanja and Kadaknath	Adult birds, chicks and egg	55.62 Kg Adult birds + 155 Eggs + 115 Chicks	10000	16242	Desi breed
4.	Dairy	2023	40	Sahiwal	Newly started	-	11000	Still not started	Desi breed. Dung and urine used in Natural Farming
5.	Azolla	2009	1.5	*Azolla pinnata*	Azolla	10.5 Kg	-	105.00	Distribution and used in poultry feed
6.	Mushroom	2018	25.62	Oyster & Button	Oyster & Button	15 kg	1200	1800	Demonstration & sale
Total							**30700**	**43,782**	

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy	31.07.2023	17.11.2023	1.3	RajedraSuwasini	F/S	75.16		-	Kept in Farm Store
Paddy	31.07.2023	17.11.2023	0.2	Rajshree	C/S	5.77		-	
Paddy	31.07.2023	17.11.2023	0.03	Rajendra Bhagwati	N/S	1.4		-	
Paddy	31.07.2023	17.11.2023	0.1	MC 13	N/S	0.75		-	
Finger millet	31.07.2023	29.10.2023	0.3	RAU 8	T/L	2.9		-	
Sesame	01.07.2023	09.10.2023	0.25	Krishna	T/L	0.95		-	

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

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	2707	7000.00	16242.00	Fine quality vermicompost

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.	Quail	CARI Brown (Japanies quail)	Adult bird+ Chicks+Eggs	53 adults+ 311 eggs+ 93 chicks	1500.00	3563.00	Profitable enterprise
2.	Poultry	Vanraja+Kadaknath	Adult birds+ Chicks+ Eggs	55.62 Kg+ 155 Eggs+ 115 chicks	10,000.00	15067.00	Profitable enterprise
3.	Dairy	Sahiwal	-	1 Calf	Growing stage		
4.	Fish	Rohu, Katla, Grass carp	Adult Fish	-	Ongoing		
5.	Quail	CARI Brown (Japanies quail)	Adult bird+ Chicks+Eggs	53 adults+ 311 eggs+ 93 chicks	1500.00	3563.00	Profitable enterprise

Photographs:

Poultry Demonstration unit at KVK Vaishali

Button Mushroom production unit

Fishery Unit

6.5 Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
2011	IMD	Functional

6.6. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
Ferbury 2023	2	1	No short fall
March 2023	4	1	
September 2023	4	2	
September 2023	13	55	
Total :	**23**	**59**	

(For whole of the year)

6.7 Utilization of staff quarter

- Whether staff quarters have been completed: Completed
- No. of staff quarters:6
- Date of completion:
- Occupancy details:

Months	**Q I**	**QII**	**Q III**	**QIV**	**Q V**	**QVI**
June 2023	All quarters have been alloted					

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Main Account	Bank of Baroda	Hajipur	25930200000005
Revolving Account	Bank of Baroda	Hajipur	25930100002376
Seed Hub	Bank of Baroda	Hajipur	25930100012752
Natural farming	State bank of India	Hajipur	42146427999
RPL/UP -Scaling Program	State bank of India	Hajipur	42494349422
CFLD Oilseeds	State bank of India	Hajipur	42494348633
CFLD Pulses	State bank of India	Hajipur	42494349896
Skilled development training program	State bank of India	Hajipur	42494257519

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	NA	0	NA	3.29	(-)3.29

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2022
	Kharif	Rabi	Kharif	Rabi	
Lentil	NA	0	NA	1.28	(-)3.73 * 2.45 is expenditure of FY-2022-23 which is not received.

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

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances			
2	Traveling allowances	0.90		0.39
3	Contingencies			
A	HRD	0.30		0.09
B	Office Expense	4.00		2.90
C	Training			
D	FLD			
E	OFT			
F	Extension Activities/Kisan Mela	7.00		4.15
G	Maintenance of Building	0.40		
I	Swachhta Expenditure			
TOTAL (A)		**12.60**	**12.55**	**7.53**
B. Non-Recurring Contingencies				
1	Works	0	0	0
2	Vehicle	0	0	0
3	Library	0	0	0
4	Equipment & Furniture	0	0	0
TOTAL (B)		0	0	0
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**12.60**	**12.55**	**7.53**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
2021	35.54	27.09	19.28	43.35
2022	43.35	29.56	30.82	42.18
2023	42.18	13.54(till Dec, 2023)	17.31(till Dec, 2023)	45.41(till Dec, 2023)(38.41 Cash + 7.00 Kind)

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

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activities	Season	With line department	With ATMA	With both
Rabi Abhiyan	01	Rabi	ATMA & DAO	Yes	Yes
KharifAbhiyan	01	Kharif	ATMA & DAO	Yes	Yes

7.8 Revenue generation

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
1.	Training(Institute charge)	3500.00	NCDC
2.	Custom hiring	21600.00	KVK Vaishali
3.	Institute charge	2740.00	BREDA

7.9 Resource Generation

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1.	Tuition fee (RAWEP)	Practical exposure to the field	Private Colleges	0.2	
2.	Institute charge	10 % of whole budget	ASCI	0.24550	
3.	Training hall	For getting the knowledge and awarnessprogramme	Govt. Organization	0.08	
4	Kisan ghar	For staying during programme	KVK, Vaishali	0.03940	
Total				**0.5649**	

8. MISCELLANEOUS 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)
No disese outbreak					

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)
Lumpi skin disease	Cow	MAY 2023	3	2 lakh	

8.3. Nehru Yuva Kendra (NYK) Training

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

8.4. PPV & FR Sensitization training Programme

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

8.5. KVK Portal and Mobile App-

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

8.6 Details of KVK Portal

No. of Events added by KVK	**No. of facilities added by KVK**	**No. of filled Report on Package of Practices**				**No. of filled Profile Report**							
		Crop	**Horticulture**	**Livestock**	**Fisheries**	**Employees**	**Posts**	**Finance**	**Soil Health Cards**	**Appliances**	**Crops**	**Resources**	**Fish**
3000	**12**	-	-	-	-	-	-	-	-	-	-	-	-

8.7 Kisan Mobile Advisory Services/KMAS (m-Kisan Portal/National Farmers Portal/ SMS Portal)

Sl. No.	Discipline	No. of Advisories	No. of Messages (text+ videos)	Total messages	No. of Farmers
1.	Crop	180	170	350	335
2.	Livestock	140	160	300	340
3.	Weather	130	90	175	447
4.	Marketing	160	170	330	370
5.	Awareness	170	180	350	430
6.	Enterprises	180	70	130	270
7.	Others	125	160	255	380
Total		**905**	**1000**	**1890**	**2572**

8.5 Kisan Sarathi

Name of KVK	No. of Farmers Registered on Portal
Krishi Vigyan Kendra, Vaishali	7650

8.6. a. Observation of Swachhta hi Sewa (2nd -31st Oct 2023)

Date/ Duration of Observation	Total No of Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
2nd -31st Oct 2023	30	12	134	189	335

b. Observation of SwachtaPakhwada (15 Dec -31st Dec 2023)

Date/ Duration of Observation	Total No of Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
15 Dec -31st Dec 2023	15	12	65	103	180

Swachta Abhiyan

c. Details of quarterly budget expenditure on Swachh activities including SAP

S.No	Activities	No of village covered	Total Expenditure (Rs.in Lakhs)
1.	Vermicomposting	**5**	**0**
2.	Other than vermicomposting activities under Swachata	**0**	**0**

8.7. Details of '*Pre-Rabi Campaign'* Programme-NA

Date ofprogramme	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 [illegible]	Chairman ZilaPanchayat	Distt. Collector/ DM	Bank Officials	Farmers	Govt. Officials, PRI members	Total		

8.8 Viksit Bharat Sanklap Yatra (LLB and ULB)

Sl.	No of events attended	No. of Gram Panchayat covered	Total no of farmer participated	No of Lecture Delivered on Soil Health/ Natural Farming
1.	44	288	13256	88

Awareness program at different villages under Vikshit bharat sankalp yatra

8.9. Contingent crop planning-KVK has prepared 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

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

Date of Visit	Name of Hon'ble Minister	Name of Ministry	Salient points in his/ her observation (2-3 bulleted points)
NO			

Viksit Bharat Sankalp Yatra

Date	Name of KVK Scientist	Name of Gram Panchayat	Name of activities	No .of people attended
30.10.2023	Dr.SunitaKushwah	Daulatpur	Awareness Programme on Natural Farming	301
01.12.2023	KumariNamrata	Arara	Drone and natural farming	299
02.12.2023	Sripriya Das	Ismailpur	Soil health card, Natural farming	213
03.12.2023	No Schedule			
04.12.2023	Dr.Swapnilbharati	Gadaisarai	Natural farming	160
05.12.2023	PremPrakashgautam	Thathanbujurg	Natural farming and soil health card	195
06.12.2023	Sripriya Das	Dhobhatti	Natural farming	82
07.12.2023	KumariNamrata	Prataptand	Natural farming	140
08.12.2023	Sripriya Das	Sahdullapur	Soil health and Natural farming	130
09.12.2023	Sripriya Das	Agrail	Soil health and Natural farming	254
10.12.2023	No Schedule			
11.12.2023	Premprakashgautam	Panapurlanga	Natural farming	100
12.12.2023	KumariNamrata	Dayalpur	Soil health Natural farming	280
13.12.2023	Sri priya Das	Andharwara	Natural farming	145
14.12.2023	Dr Swapnilbharti	Rajapakarbarai	Soil health Natural farming and drone	140
15.12.2023	KumariNamrata	Rampur ratnakar	Natural farming and drone technology	348
16.12.2023	PremPrakashGautam	Harilochanpursukki	Soil health Natural farming	884
17.12.2023	No Schedule			
18.12.2023	SwapnilBharti	Bakharibarai	Natural farming	355
19.12.2023	Sri priya das	GaushpurRajapakar	Natural farming	175
20.12.2023	PremPrakashGautam	Mahua	Natural farming	150
21.12.2023	KumariNamrata and Kavitaverma	Mahua HasanpurOsti	Soil health Natural farming farm mechanization ,Drone application in Agriculture	570
22.12.2023	KumariNamrata and Kavitaverma	LakshinarayanpurVaishali	Soil health Natural farming farm mechanization ,Drone application in Agriculture	250
23.12.2023	KavitaVerma	Rahimpur	Soil health Natural farming	800
24.12.2023	No Schedule			
25.12.2023	No Schedule			
26.12.2023	KumariNamrata	Mirjanagar	Natural farming farm mechanization	198
27.12.2023	Sripriya das	Saikhpurmanikpur	Soil health ,Natural farming,Drone technology	275
28.12.2023	Sripriya Das Er. KumariNamrata	Mahnar&Mahua	Soil health ,Natural farming,Drone technology	570
29.12.2023	Mr PremPrakashGautam&Er. KumariNamrata	Marui, Belsar	Soil health ,Natural farming,Drone technology	602
30.12.2023	Er. KumariNamrata&PremPrakashGautam	Nagwa&Hsanpuruttri	Soil health ,Natural farming,Drone technology	802
31.12.2023	No Schedule	-	-	-

10. List of other visitors (MP/MLA/DM/VC/Zila Parishad/Other Head of Organization/Foreigners)

Date	Name of the person	Purpose of visit
30.12.2023	Shatrughan Rai, Chairman, Association of Fertilizer and seed dealer	Visit to KVK
	Maheshwar Kumar Chairman	
06.01.2023	Abhishek Kumar Singh, BEA Patna	Krishi Samwad- Progressive Farmers to Agriprenuers, A workshop
02.02.2023	Sri Abhanshu Jain, Director BAMETI	For participating in the One day Workshop on Natural Farming
	Sri Sanjay Kumar Singh MLA, Lalganj	
	Dr. Anupma Kumari Deputy Director Extension-2 RPCAU, Pusa	
	Usha Kiran, Inspector, Plant Protection, Vaishali	
19.02.2023	Dr. Dheer Singh, Director and Vice Chancellor, NDRI, Karnal	Visit to KVK
18.04.2023	Dr.Vikash Kumar Das Director,NRC on Litchi,Muzaffarpur	Visit to KVK
	Dr. Bangali Baboo Director,NAIP,ICAR HQ	
03.05.2023	Nirmalendu Verma, Chairman,Khadi Poly VastraShilpi,Bihar	Visit to KVK for MOU
	Dr.Mrityunjay Kumar Registrar,RPCAu,Pusa	
26.05.2023	Dr. Sweta Singh CQ University,Brisbane Australia	Visit to KVK to interact with entreprenures and progressive farmer (Two day training on banana fiber extraction under ARYA Project)
	Dr. Anjani Kumar, Director, ATARI, PATNA	
30.05.2023	Dr. D.K.Singh Principal Scientist(Retd.) ICAR,IVRI,Ijatnagar	Visit to KVK
15.06.2023	Dr.P.R.Singh Ex. Principal Scientist(FM&P) ICAR-IISR,Lucknow	Visit to KVK
23.06.2023	Ravi Kunwar Hyderabad,Telangana	Visit to KVK
2.07.2023	Dr.A.R.Pathak Former Vice Chancellor,NAU,Navsari&JAU Junagadh(Guj)	Visit to KVK
14.07.2023	Vijay Badhwani Britania Nutrition Foundation Banlore,(Karnataka)	Visit to KVK
22.07.2023	Dr.Mukesh Kumar Singh Associate Dean Cum Preincipal VKS College of Agriculture Dumrao,Buxar	Visit to KVK
18.08.2023	Dr. M.K. Sinha Retd. Jt. Registrar Coop Society	Visit to KVK
29.09.2023	Dr. M.S Kundu Director,ExtensionEductaion,RPCAU,Pusa	SAC Meeting
	Dr.Anoop Kumar Das, Director,ICAR-RCER Patna	
	Dr. Ujwal Kumar Principal Scientist, ICAR-RCER Patna	
	Dr. M.N Singh Ex Dean Cum Principal Scientist Bihar Veterinory College, Patna	
	Dr. N.K Singh Ex Director Research, Dr. RPCAU,Pusa	
	Dr.R. K Singh Head cum Scientist, CPRI, Patna	

	Dr.S.P Singh Principal Scientist,CPRI,Patna	
	Dr. Ved Narayan Singh DAO,Vaishali	
	Shri SiyaRam Sahu Deputy P.D ATMA	
05.10.2023	Shri Sanjay Agrawal Agriculture Secretory	Visit to CRA demonstration at KVK Vaishali
15.10.2023	Dr.Jyutindra Prasad Shrivastava Retired Professor & Head Ranchi vaterinorycollege,Ranchi Jharkhand	Visit to KVK
27.10.2023	Dr.Keshav Principal Scientist Agril.Ext Director ICAR,HQ New Delhi	Visit to KVK
17.11.2023	Dr.M.S Kundu Director Extension Education,RPCAU,Pusa	Visit to KVK
21.11.2023	Dr. P.S Pandey Hon'ble, Vice Chancellor, RPCAU, Pusa	Visit to KVK
17.12.2023	Dr.M.S Kundu Director Extension Education,RPCAU,Pusa	Visit to KVK
25.12.2023	Dr. P.S Pandey Hon'ble, Vice Chancellor, RPCAU, Pusa	Visit to KVK

11. PROJECT-WISE REPORTING (Applicable for KVKs identified under the given project)

11.1. Details of Cereal Systems Initiative for South Asia (CSISA)-NA

- Year:
- Introduction / General Information:

Trial Name	Area covered	Variety name	Duration	Method of planting	Sowing	Grain Yield	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	BCR
Kharif										
Rabi										

11.2 Details of Tribal Sub Plan (TSP)-NA

a. Achievements of physical output under TSP

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

b. Fund received under TSP in 2023-24 (Rs. In lakh):-NA

c. Achievements of physical outcome under TSP during 2023

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 2023

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

11.3. Details of Scheduled Caste Sub Plan (SCSP)

Sl.	Activities	Physical Achievement	
1)	Trainings	No. of Trainings/Demos	No. of beneficiaries
a.	Farmer	7	123
b.	Women	2	50
c.	Rural Youths	1	22
d.	Extension Personnel	0	0
2)	OFT	No. of OFTs	No. of beneficiaries
		1	2
3)	FLD	No. of FLDs	No. of beneficiaries
		3	47
4)	Mobile agro- advisory to farmers	No. of advisory	No. of beneficiaries
		80	75
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.)		

Demonstration of gardening tools

Training program under SCSP

11.4. NICRA (Technology Demonstration component) –NA

a. Natural Resource Management

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	

b. Crop Management / Production

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted									Remarks
		SC		ST		Other		Total			
		M	F	M	F	M	F	M	F	T	

c. Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	

d. Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	

e. Capacity building

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

f. Extension activities

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

11.5. Formation and Promotion of FPOs as Cluster Based Business Organization (CBBOs)

S.No	No. of blocks allocated	Name of blocks	No. of FPOs registered	Average no of members per FPO	No. of FPO received Management cost	No. of FPO received Equity Grant	No. of FPOs doing business
1.	1	Vaishali	1	405	1	1	1
2.	1	Bidupur	1	415	1	1	1

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

MOU Signed with Khadi institution Patna for marketing of honey

Krishi sambad program organized for FPO farmers

S.No	Name of the FPO	Registration No and Date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
1	NCDC	FPO Vaishali	BR/07/03/01/OTH-06/2022 VIll+Post-Chakramdas,Block-Vaishali	Honey processing, IFS	Litchi, Honey	415	15,74,301.00	Quadripartite agreement signed MOU between Khadi institution, Patana for marketing of honey and Diwan FPO, Vaishali.They have received Management cost and Equity grant.
2	NCDC	FPO Bidupur	BR/07/03/01/OTH-02/2022	Fruits and vegetable processing, Mushroom	Fruits and Vgetables	350	2800000.00	FPO Bidupur Started mushroom farming in their buiseness and received Management cost and equity grant.

11.6. Nutri-Sensitive Agricultural Resources and Innovation (NARI)

a. Overall achievement

No. of Nutri smart village developed	Total Area covered	Total No of OFT organized	Total No. of FLD organized	No. of training/capacity development programme	Total No. of farmers/ beneficiaries	No of Extension programmes	Total No. of farmers/ beneficiaries
05	Hilalpur, Pratap tarh ,Hariharpur, Sindhuri, Gurmiya,	-	01	09	143	13	187

b. Details of OFT/FLD

OFT		
Nutritional Garden	-	-
Bio-fortified Crops	-	-
Value addition (in no. of Unit or no. of Enterprise)	-	-
Other Enterprises (in no. of Unit or no. of Enterprise)	-	-
	Area (ha/ no. of Unit/Enterprise)	**No. of farmers/ beneficiaries**
FLD		
Nutritional Garden		
Bio-fortified Crops	**0.01**	**05**
Value addition (in no. of Unit or no. of Enterprise)	-	-
Other Enterprises (in no. of Unit or no. of Enterprise)	-	-

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

Sl.	Name of Nutri-Smart Village	Type of Nutrition Garden	Number	Area (sqm)	No. of beneficiaries
1.	Hilalpur, Pratap tarh ,Hariharpur, Sindhuri, Gurmiya,	Backyard/ Kitchen Garden	46	250	48
2.		Community level	-	-	-
3.		Terrace Garden	-	-	-
4.		Vertical Garden	-	-	-
TOTAL			46	250	48

d. Details of Bio-fortified crops used in Nutri-Smart village

Name of Nutri-Smart Village	Season	Activity (OFT/FLD)	Category of crop (cereal/ pulses/oilseed/ fruits & veg./ others	Name of Crop	Variety	Area (ha)	No. of beneficiaries
Sindhuri, Hilalpur, Gurmiya	Kharif	FLD	Vegetable	Potato	Kufri Neelkanth	0.01	05

e. Details of Value addition in Nutri-Smart village

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

f. Training programmes in Nutri-Smart village

Name of Nutri Smart Village	Area of Training	No of courses	No. of beneficiaries
Hilalpur, Pratap tarh ,Hariharpur, Sindhuri, Gurmiya,	Development of Nutri Garden	09	143

g. Extension activities under NARI Project

Name of Nutri-Smart Village	Title of Activity	No. of activities	No. of beneficiaries
Hilalpur, Pratap tarh , Sindhuri, Gurmiya, Hariharpur	Development of Nutri Garden	13	187

h. Details of recipe contest (if applicable) -NA

No of events organised	Name of location/village	No. of participants
1		

Demonstration ofvegetable seedlings to establish nutri garden

Scientist visit to nutri garden at Farmers

Demonstration of Kufri neelkanth under NARI project

11.7 Attracting and Retaining Youth in Agriculture

11.7 (ARYA)

Name of enterprises	No. of entrepreneurial units established	No. of Training programs organized	No. of rural youth trained		No. of youth established units		Total entrepreneurial units formed	Total entrepreneurial units Functional
			Male	Female	Male	Female		
Horticulture Nursery	04	02	10	0	10	0	10	10
Mushroom Production Unit	23	02	40	10	18	05	5	5
Bee keeping and Honey Production Units	20	02	45	05	20	00	20	20
Quail Unit	15	02	22	08	22	08	15	10
Banana Fiber Extraction Units	07	03	23	37	01	06	05	03

Nursery established under ARYA project

Mushroom production unit established under ARYA project

Training on bananafiber extractionfor JIVIKA Didi

Training on Honey bee keeping

11.8 Out-scaling ofNatural Farming

a. Overall achievements

S.No	Name of Activity	No. of activities	No. of beneficiaries
1.	Awareness programme	05	892
2.	Training programme	06	195
3.	Demonstrations	09	255

b. Details of Training programmes

S.No	Name of training programme	Date	Location/Venue	No. of beneficiaries
1.	Natural Farming	16.01.2023	Office Premises	34
2.	Natural Farming	28.01.2023	Office Premises	28
3.	Natural Farming	27.05.2023	Thanpur, Mahnar	25
4.	Natural Farming	31.05.2023	Subhai, Hajipur	28
5.	Natural Farming	22.12.2023-23.12.2023	Office Premises	40
6.	Natural Farming	29.11.2022-30.11.2022	Office Premises	40

c. Details of Awareness programmes

S.No	Name of Activity	Date	Location/Venue	No. of beneficiaries
1.	One Day Workshop	02.02.2023	Office Premises	350
2.	Awareness Programme	18.03.2023	Office Premises	50
3.	Awareness Programme	22.12.2023	Sonpur	150
4.	Awareness Programme	27.12.2023	SheikpurManikpur	177
5.	Awareness Programme	28.12.2023	Gorigamma, Mahnar	165

d. Details of Demonstrations

S.No	Name of Crop	Location of Demo.	Area of Demo. (ha)
01.	Chilli	Farmers field (Hariharpur)	0.08
02.	Okra	Farmers field (Faridpur)	0.08
03.	Brinjal	Farmers field (Bakhri barai)	0.08
04.	Cucurbits	Farmers field (Subhai)	0.04
05.	Tomato	Farmers field (Chakwara)	0.04
06.	Paddy	Office Premises, KVK	0.04
07.	Mustard	Office Premises, KVK	0.04
08.	Brinjal	Office Premises, KVK	0.04
09.	Finger millet	Office Premises, KVK	0.04
10.	Mustard	Office Premises, KVK	0.04

Two days traing on Natural Farming

Awareness program on Natural Farming

Dignatories visited to Natural Farming

Practical on Natural farming

11.9 District Agro Meteorological Unit (DAMU)-NA

S. No	No. of Block agromet advisories send	No. of advisory bulletin published	No. of Farmers Awareness programmes organized	No. of farmers feedback received	No. of farmers received agromet advisory bulletin	No. of publication

11.10 KSHAMTA-NA

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

11.11 Agri-Drone-NA

S.No	Name on the project implementation center (PIC)	No. of kisan drones sanctioned	No. of kisan drones purchased by the PIC	Procurement of no of drones in process	Area covered under the kisan drone demonstration (ha)	No. of demonstration conducted	No. of Pilot training proposed	No. of Pilot training conducted

11.12 Integrated Farming System (IFS)

a. Details of KVK Demo. Unit

S. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
1	**Pond based**	0.04			-	5	-
	Fish		Ongoing as newly established	-	-		
	Chicken (Adult+ Chicks+Eggs)		55.62 Kg adult + 155 Eggs+ 115 chicks	10,000.00	15,067.00		
	Quail (Adult+ Chicks+Eggs)		53 adults+ 311 eggs+93 chicks	1500.00	3563.00		
	Livestock		1 Calf	Growing phase			
	Vermicompost		2707 Kg	7000.00	16242.00		
	Azolla		10.5 Kg	500.00	105.00		
2	**Crop based**	0.4	25kg	1500	3750.00	5	-
	Mushroom						
	Fruit		Mango fruit auction	10000	4,80,000.00		
	Beekeeping		Honey	250	700.00		
	Planting material		Vegetable seedling	1000.00	5000.00		
				Total	5,24,427.00		

A) 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.	A pond size for fish production	01	01	0.005	01	00	75	00
2.	Crop production (Cereals + Vegetables+Fodder	-	-	-	-	-	-	-
3.	Horticultural components (Fruits & Vegetables)	01	01 (Guava)	0.01	01	01	75	25
4.	Poultry unit	01	02 (Vanraja, Kadaknath)	0.008	01	02	75	55
5.	Qail	01	01(Cari brown)	0.009	01	02	75	50
6.	Rearing of Fingerling fish	01	Rohu, Katla, Grasscarp	0.005	01	00	75	00
7.	Dairy unit 2 cows	01	01 (Sahiwal)	0.004	01	00	75	00
8.	Vermicompost, Decomposers & Azolla units	01	02 (Vermicompost and Azolla)	0.009	01	02	75	57
9.	Banana fiber extraction unit	01	01	0.005	01	02	75	58
Total				**0.045**	**5**	**8**	**450**	**220**

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

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I					
II					
Total					

11.14 Any other programme organized by KVK, not covered above

Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants
1.	Meeting for MOU	30.04.2023	KVK Vaishali	MOU for marketing of honey	20
2.	One day workshop	02.08.2023	KVK Vaishali	For capacity building of CEO of FPOs	22

12 Good quality action photographs with caption in JPEG FORMAT SEPARATELY of overall achievements of KVK during the year (best 10)

Visit of Registrar, RPCAU, Pusa

Inaugration of Training Programme

Visit of Ex- Director, NISA, Ranchi

Banana Fibre Extraction

22nd SAC Meeting

Training on Vermicomposting

Certificate distribution in Training Programme

Natural Farming inputs preparatioin

Release of fish fingerlings in pond

Floriculture Trial plot