

Annual Report वार्षिक रिपोर्ट

January- December, 2022







Dr. Rajendra Prasad Central Agricultural University, Pusa (Samastipur), Bihar

KRISHI VIGYAN KENDRA, SARAIYA, MUZAFFARPUR

Annual Report | वार्षिक रिपोर्ट





January- December 2022

Compiled and Edited by:

Santosh Kumar Gupta Tarun Kumar Pankaj Kumar Savita Kumari Rajneesh Singh Sneha Shikha

Assistance

Anupam Adarsh Suman Kumar

KRISHI VIGYAN KENDRA, SARAIYA, MUZAFFARPUR

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

<u>1. GENERAL INFORMATION ABOUT THE KVK</u>

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

Name and address of KVK	Telephone			
	Office	FAX	E-Mail	
Krishi Vigyan Kendra,	06223-255552	-	head.kvk.saraiya@rpcau.ac.i	
Saraiya, PO – Saraiya Kothi,			<u>n</u>	
Dist. – Muzaffarpur, PIN –				
843126				

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

Name and address of Host	Tel	lephone	E mail
Organization	Office	FAX	
Dr. Rajendra Prasad Central	06274-240226	06274-240255	vc@rpcau.ac.in
Agricultural University (Bihar),			
Pusa, Samastipur, PIN – 818125			

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

Name		Contact	
	Residence	Mobile	Email
Dr. Santosh Kumar Gupta	Saraiya	6287797159	<u>head.kvk.saraiya@rpcau.ac.i</u> <u>n</u>

1.4. Year of sanction of KVK: 1996 (ICAR No. 18-12/96 AE dt. 27-03-1996)

1.5. Staff Position (as on 31st December 2022)

SI. No.	Sanctioned post	Name of the Incumbent	Designation	Discipline	Pay Scale with Present Basic (Rs)	Date of joining	Permanent/ Temporary	Category (SC/ST/ OBC/Others)
1.	Senior Scientist & Head	Dr. Santosh Kumar Gupta	Sr. Scientist & Head	Animal Science	139400/- 37400-67000	28/12/2020	Permanent	OBC
2.	Subject Matter Specialist	Mr. Pankaj Kumar	SMS	Fisheries Science	63100/-	08/10/2018	Permanent	SC
3.	Subject Matter Specialist	Dr. Tarun Kumar	SMS	Soil and water Engineering	63100/-	12/10/2018	Permanent	SC
4.	Subject Matter Specialist	Mrs. Savita Kumari	SMS	Home Science	56100/-	05/03/2022	Permanent	OBC
5.	Subject Matter Specialist	Dr. Rajneesh Singh	SMS	Crop Production	56100/-	12/03/2022	Permanent	Others
6.	Subject Matter Specialist	Mrs. Sneha Shikha	SMS	Plant Protection (Plant Pathology)	56100/-	04/07/2022	Permanent	OBC
7.	Subject Matter Specialist	Vacant	-	-	-	-	-	-
8.	Farm Manager	Mr. Anupam Adarsh	Farm manager	Horticulture	9300-34800 38700	27/11/2017	Permanent	Others
9.	Assistant	Kumari Pratibha	Assistant	-	9300-34800 38700	22/11/2017	Permanent	SC
10.	Programme Assistant (Lab)	Vacant	-	-	-	-	-	-
11.	Programme Assistant (Computer)	Vacant	-	-	-	-	-	-
12.	Stenographer	Mr. Suman Kumar	Stenographer	-	25500-81100 27100	27/02/2018	Permanent	OBC
13.	Driver(Jeep)	Mr. Ram Ekbal Singh	Jeep Driver		5200-20200	30/08/1989	Permanent	Others
14.	Driver	Vacant						
15.	Supporting staff	Vacant	-		-	-	-	-

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16. Supporting staff Vacant

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	1.50
2.	Under Demonstration Units	0.34
3.	Under Crops	6.967
4.	Orchard/Agro-forestry	0.32
5.	Others with details	0.873
	Total	10.00

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet starte d	Comp leted up to plinth level	Com plete d up to lintel level	Compl eted up to roof level	Tota lly com plet ed	Pli nt h are a (sq .m)	Under use or not*	Source of funding
1.	Administrative Building					Yes		Under use	ICAR
2.	Farmers Hostel					Yes		Under use	ICAR
3.	Staff Quarters (6)	Yes							
4.	Piggery unit	Yes							
5	Fencing					Yes		Under use	ICAR
6	Rain Water harvesting structure					Yes		Under use	ATMA, Muzaffarpur
7	Threshing floor					Yes		Under use	ICAR
8	Farm godown					Yes		Under use	ICAR
9.	Dairy unit	Yes							
10.	Poultry unit	Yes							
11.	Goatry unit	Yes							
12.	Mushroom Lab					Yes		Under use	RKVY
13.	Mushroom production unit					Yes		Under use	RKVY
14.	Shade house					Yes		Under use	ICAR
15.	Soil test Lab					Yes		Under use	ICAR
16.	Vermicompost unit					Yes		Under use	RKVY
17.	Poly house					Yes		Under use	NHM
	Shed net					Yes		Under use	NHM

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18.	Azolla unit			Yes	Under use	ICAR
19.	Green House	Yes				
20.	Zero energy cool chamber			Yes	Under use	ICAR
21.	Low cost onion storage structure			Yes	Under use	ICAR
22.	Micro irrigation demo unit			Yes	Under use	ICAR
23.	Beekeeping demo unit			Yes	Under use	ICAR
24.	NADEP unit			Yes	Under use	ICAR

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Bolero	2003	4.06	217756	Condemned by DTO
				and in the process of
				auction
Tractor	2006	5.01	1174.6	Non functional
MSTL Van (BR33PA2645)	2017	33.28	4274	Good
Motorcycle 1(BR06AY-3940)	2016	0.48	6559	Good
Motorcycle 2(BR06AY-3941)	2016	0.48	7324	Good
Bolero SLE Power plus	2018	6.12	50085	Good
John Deere Tractor	2019	6.72	_	Good
John Deere Tractor	2020	6.72	_	Good

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Distillation set	03.05.2005	48000.00	Non Functional	ICAR
Conductivity meter	26.02.2006	9000.00	Non Functional	ICAR
Flame photometer	26.02.2006	42000.00	Good	ICAR
Spectrophotometer	26.02.2006	54000.00	Good	ICAR
Digital pH meter	26.06.2006	90000.00	Non Functional	ICAR
CVT	26.02.2006	4000.00	Non Functional	ICAR
Kjeldhal digestion	26.02.2006	27000.00	Broken	ICAR
Hot air oven	26.02.2006	13500.00	Good	ICAR
Horizontal Shaker	26.02.2006	22500.00	Good	ICAR
Willy Mill grinder	26.02.2006	25500.00	Good	ICAR
Hot plate	26.02.2006	8000.00	Good	ICAR

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Physical balance	26.02.2006	7345.00	Non Functional	ICAR
Chemical electronic	26.02.2006	110740.00	Non Functional	ICAR
balance				
Beam scale with all	24.04.1999	4146.00	Good	ICAR
weight				
BOD Incubator	02.04.2013	50242.50	Good	RKVY
Autoclave	02.04.2013	72924.00	Good	RKVY
Distillation set	31.03.2008	23962.00	Good	ICAR
Honey Extractor	14.02.2015	3300.00	Good	ICAR
Usha sewing machine(2)	07.01.2004	8670.00	Good	ICAR
Table top wt. Balance	07.01.2004	560.00	Good	ICAR
Hot plate (Gas Chulha)	30.01.2004	770.00	Good	ICAR
LPG gas cylinder(double)	30.01.2004	1400.00	Good	ICAR
Stabilizer 1KW	30.05.2005	4000.00	Non Functional	ICAR
Refrigerator	03.05.2005		Good	ICAR
Food processor	08.09.2009	4750.00	Good	ICAR
Wt. Machine	2010-2011	20000.00	Good	ICAR
Usha Embroidery	30.03.2011	9500.00	Good	ICAR
machine(1)				
0.5 HP motor	23.03.2013	3000.00	Good	ICAR
b. Farm machinery				
Gator rocking sprayer	24.04.1999	2378.00	Good	DRPCAU, PUSA
Honda EXK 2000 Genset	18.06.2004	38400.00	Good	DRPCAU, PUSA
Self Propelled Reaper	14.02.2012		Good	DRPCAU, PUSA
Hand rotary duster	24.04.1999	1197.00	Non Functional	DRPCAU, PUSA
Aspee knapsack Sprayer	24.04.1999	1200.00	Good	DRPCAU, PUSA
Honda pumpset	18.06.2004	19100.00	Good	DRPCAU, PUSA
Guttor rocking machine	02.07.2013	6710.00	Good	DRPCAU, PUSA
Maize dryer	27.02.2013	500000.00	Non functional	RKVY
Knap sac Sprayer	14.02.2012		Good	DRPCAU, PUSA
VST Shaktiman power	13.03.2012	107277.00	Non functional	RKVY
reaper				
Seed processing Machine	30.09.2009		Non functional	Govt. of Bihar
Happy seeder	31.07.2020		Good	DRPCAU, PUSA
Zero till cum fertilizer	31.07.2020		Good	DRPCAU, PUSA
machine				
Multi crop planter	31.07.2020		Good	DRPCAU, PUSA
Power weeder	31.07.2020		Good	DRPCAU, PUSA
Leaser land labeller	31.07.2020		Good	DRPCAU, PUSA
Mini dal mil	31.07.2020		Good	DRPCAU, PUSA
Jondeer Tractor	09.3.2021	761600	Good	DRPCAU, PUSA

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I aser I and leveler	18 03 2021	248000	Good	DRPCALL PUSA
Multi Cron Planter	28 07 2021	77549	Good	DRPCALL PUSA
Disk Plough	05 07 2021	94657	Good	DRPCALL PUSA
Hydroulic Tractor Trailer	05.07.2021	1/13/00	Good	DRPCALL PUSA
Potovotor	05.07.2021	06240	Good	DRICAU, IUSA
Cultivator	05.07.2021	90240 20420	Cood	DRICAU, IUSA
	05.07.2021	29430	Good	DRPCAU, PUSA
Reaper Cum Binder	28.07.2021	342000	Good	DRPCAU, PUSA
Happy Seeder	01.12.2021	140000	Good	DRPCAU, PUSA
Zero till cum seed cum	01.12.2021	72000	Good	DRPCAU, PUSA
fertilizer				
Potato Planter	01.12.2021	217000	Good	DRPCAU, PUSA
c. AV Aids				
Computer	2006		Non-functional	ICAR
Computer	2015		Satisfactory	ICAR
Sony Handy cam	06.05.2005	24000.00	Good	ICAR
Ledger Fax	25.11.2006	21995.00	Non-functional	ICAR
Camera(Sony)DHC-H-50	15.03.2009	21999.00	Good	ICAR
PA system	28.03.2011	38063.00	Good	ICAR
Digital photocopier	23.03.2012	74693.00	Need repair	ICAR
(Richo)				
Camera	29.10.2013	4840.00	Non functional	ICAR
Stabilizer	25.03.2014	19081.00	Good	ICAR
Exhibition kit	30.03.2013	15890.00	Good	ICAR
Exhibition board	29.12.2013	4840.00	Good	ICAR
Laptop	25/04/2018	28100.00	Good	CSISA
Laptop	19/02/2019	215100.00	Good	ICAR
Desktop	22/02/2019	40848.00	Good	DAMU – AGRIMET
Laptop	16/03/2019	49000.00	Good	DAMU – AGRIMET
Digital Camera	01/04/2019	14900.00	Good	CSISA
Printer	06/04/2019	14000.00	Good	CSISA

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of
				fund
Grass shear	24.12.2012	491.00	Good	ICAR
Weeding trawell	24.12.2012	65.00	Good	ICAR
Bill hook	24.12.2012	588.00	Good	ICAR
Hand cultivator	24.12.2012	65.00	Good	ICAR
Hedge shere	24.12.2012	482.00	Good	ICAR
Khurpa 2"	24.12.2012	355.00	Good	ICAR
Weeder(4)	24.12.2012	62.00	Good	ICAR

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M-3 secetier	24.12.2012	219.00	Good	ICAR
Regular secetier	24.12.2012	280.00	Good	ICAR
F.B.C.K/60	24.12.2012	386.00	Good	ICAR
Sickle	24.12.2012	536.00	Good	ICAR
Spade	24.12.2012	472.00	Good	ICAR
Grass sward	24.12.2012	472.00	Good	ICAR
Augar	24.12.2012	640.00	Good	ICAR
Water can	24.12.2012	300.00	Good	ICAR
Pump duster	24.12.2012	45.00	Good	ICAR
Trailor Hydraulic	25.03.2006	-	Good	ICAR
Disc Harrow	25.03.2006	-	Good	ICAR
M.B.Plaugh	25.03.2006	-	Good	ICAR
9 Tyne cultivator	25.03.2006	-	Good	ICAR
Moisture meter	18.08.2009	1200.00	Good	ICAR
Bag closer	15.08.2009	5200.00	Good	ICAR
Zero tillage machine	02.04.2007		Non functional	ICAR
Sprinkler system	28.03.2009	30000.00	Good	ICAR
Disc Harrow	28.12.2011	27825.00	Good	ICAR
Rotavator	29.02.2012	59000.00	Good	ICAR
Weeder	28.11.2006	170.00	Good	ICAR
Weeder with wheel	28.11.2006	300.00	Good	ICAR
Drum seeder	26.03.2012		Good	ICAR
Conoweeder	26.03.2012		Good	ICAR
Rotavator (Shaktiman)	29.02.2012	59000.00	Non functional	ICAR
Drum Cap	26.03.2012		Good	ICAR
Digger	26.03.2012	42748.00	Good	ICAR
Zero tillage	30.08.2012	47500.00	Non functional	ICAR
Iron balance	24.04.1999	790.00	Good	ICAR
Polyseal	27.02.2016		Good	ICAR
Bulb planter	19.01.2019	215.00	Good	ASCI
Prunning saw	19.01.2019	192.00	Good	ASCI
Secatear	19.01.2019	355.00	Good	ASCI
Major	19.01.2019	580.00	Good	ASCI
Cultivator	19.01.2019	85.00	Good	ASCI
Hedge shear	19.01.2019	615.00	Good	ASCI
Bill hook	19.01.2019	440.00	Good	ASCI
Cultivator	19.01.2019	350.00	Good	ASCI
Measuring tape	19.01.2019	739.00	Good	ASCI
Budding knife	19.01.2019	240.00	Good	ASCI

1.8. Details SAC meeting conducted in the year

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Proceeding of SAC conducted on 26.11.2021 (20 Participant)

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- 1 किसानो के खेत मे स्थित सोलर ट्री के मरम्मत हेतु स्थानीय स्तर पर मैकेनिक उपलब्ध नहीं होने के कारण किसानो को दूर से मैकेनिक बुलाना पड़ता है जो मरम्मत करने की दर अधिक लेते हैAकृषि विज्ञान केंद्र द्वारा स्थानीय मैकेनिक को प्रशिक्षण देने की व्यवस्था की जाय, ताकि किसान सोलर ट्री का उपयोग बिना किसी बढ़ा के अधिकाधिक कर सकें।
- 2 ऑन फार्म ट्राएल के अंत2020 मे किए गए 21 लीची स्कवैश के सांद्रता (डिग्री ब्रिक्स) का मूल्यांकन को अग्रिम पंक्ति प्रत्यक्षन हेत् उपयुक्त माना गया।
- 3 कदन्न का अंतर्राष्ट्रीय वर्ष2023 में मनाने की योजना अंतर्गत मोटे अनाज के खेती का बढ़ावा ज़िले के किसानो के बीच की जाय, जिसके लिए ज़िला कृषि विभाग से भी सहायता ली जा सकती है। इससे कुपोषण की समस्या से भी निदान हो सकता है।
- 4 कृषि विज्ञान केंद्र द्वारा ग्रामीण कृषि मौसम सेवा)GKMS) अंतर्गत किसानो को विस्तृत जानकारी दी जाती रही है परंतु लाभान्वित किसानो के संख्या की जानकारी प्रसार निदेशालय के पास उपलब्ध नही होने के कारण उसे संग्रहीत कर निदेशालय को सूचित किया जाय
- 5 उद्यान सम्बंधित प्रशिक्षण की जानकारी जिला उद्यान को भेजा जाए जिससे किसानो के बीच जिला स्तर पर चलने वाली योजनाओ का लाभ मिल सके।
- 6 MSTL वैन में कार्यरत बस चालक एवं स्पोर्टिंग स्टाफ द्वारा मिट्टी जांच का कार्य निरंतर किया जाय, ताकि किसानो को मृदा कार्ड समय पर मिल सकेA
- 7 केंद्र के फार्म मे बीज उत्पादन के अलावा बिचड़ा/नर्सरी उत्पादन का कार्य भी प्राथमिकता स्तर पर हो ताकि केंद्र का रिवाल्विंग फंड बढ़ सके।
- 8 स्थानीय स्तर पर उत्पादित फल एवं सब्जी का कम से कम नुकसान हेतु फल व सब्जी की कटाई उपरांत प्रबंधन एवं संरक्षण का प्रशिक्षण का आयोजन केंद्र द्वारा किया जाय।
- 9 विद्यालयों में छात्र एवं छात्राओं के बीच जाकर जैविक खेती की जागरूकता लाने की जरूरत है, जिसके लिए कृषि विज्ञान केंद्र के अलावा अन्य संस्थाओं का सहयोग लेकर छात्र छात्राओं के बीच जागरूकता लाई जा सके।
- 10 पिछले कुछ वर्षो से जलजमाव के कारण पैदावार प्रभावित हो रही है, स्थिति से बचने के लिए उपयुक्त कदम उठाए जाए जिससे जलजमाव की स्थिति मे भी खेती की जा सके।

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1. ज़िले के स्थानीय मैकेनिक को कृषि विज्ञान केन्द्र सरैया से सोलर ट्री के रख रखाव हेतु प्रशिक्षण की व्यवस्था की जाय ।

dk;Zokgh }kjk % fo"k; oLrq fo'ks"kK —f"k vfHk;a=.k

2. लीची स्क्वाश बनाने की विधि का मूल्यांकन को ऑन फार्म ट्राएल के बजाय अग्रिम पंक्ति प्रत्यक्षन में लिया जाए।

dk;Zokgh }kjk % fo"k; oLrq fo'ks"kK x`g foKku

3. मोटे अनाज की खेती को बढ़ावा हेतु प्रसार कार्यक्रम आयोजित किए जाय A

dk;Zokgh }kjk % fo"k; oLrq fo'ks"kK x`g foKku

4. ग्रामीण कृषि मौसम सेवा (GKMS) योजना से जिले के किसानों को काफी लाभ हो रहा है, किंतु उसका विस्तृत जानकारी प्रसार निदेशालय को अप्राप्त है उसे संग्रहीत कर निदेशालय भेजा जाय ।

dk;Zokgh }kjk % fo"k; oLrq fo'ks"kK —f"k vfHk;a=.k

5. कृषि विज्ञान केंद्र ljS;k] eqt¶Qjiqj द्वारा उद्यान संबंधित अनेकों प्रशिक्षण कार्यक्रम आयोजित होता है, जिसकी जानकारी जिला उद्यान विभाग को प्राप्त कराया जाय जिससे उद्यान संबंधित योजना का लाभ किसानों को मिल सके।

dk;Zokgh }kjk % fo"k; oLrq fo'ks"kK —f"k vfHk;a=.k

6. OSU TSM L कृषि विज्ञान केंद्र सरैया में है, अतः कृषि विज्ञान केंद्र सारण के किसानों का मिट्टी नमूना की जांच व्यवस्था कृषि विज्ञान केंद्र सरैया में किया जाए।

dk;Zokgh }kjk % fo"k; oLrq fo'ks"kK e`nk foKku

7. प्रक्षेत्र प्रबंधक द्वारा बीज उत्पादन के अलावा फल/सब्जी का बिचड़ा/नर्सरी का भी उत्पादन किया जाय ।

dk;Zokgh }kjk % ç{ks= çcaèkd

8. स्थानीय स्तर पर किसानो को फलो एवं सब्जी हार्वेस्टिंग के उपरांत काफी क्षति होती है, इसके हार्वेस्टिंग उपरांत प्रबंधन एवं प्रसंस्करण के तरीके का प्रशिक्षण दिया जाए जिससे उनका उत्पाद नष्ट न हो । dk;Zokgh }kjk % fo"k; oLrq fo'ks"kK x`g foKku

9. विदयालयों में छात्र एवं छात्राओं के बीच जैविक खेती के महत्त्व पर जागरूकता हेतु जिला कृषि कार्यालय एवं कृषि विज्ञान केन्द्र सरैया साथ मिलकर कार्य करे ।

dk;Zokgh }kjk % ojh; oSKkufd ,oa iz/kku

10. मुजफ्फरपुर जिले के अधिकांश क्षेत्रों में बरसात के दिनों में जलजमाव की स्थिति रहती है जिसके कारण खेती प्रभावित होती है । ऐसे मे सब्जी उत्पादन का एक मॉडल केंद्र पर तैयार की जाय,

dk;Zokgh }kjk % ç{ks= çcaèkd

var esa MkW0 ds0 ds0 flag }kjk oSKkfud lykgdkj lfefr ds v/;{k] IEekfur InL;ksa] oSKkfudksa] fdlkuksa ,oa deZpkfj;ksa dk /kU;okn Kkiu fd;k x;k rFkk funs"kd izlkj f"k{kk MkW0 ,e0 ,I0 dq.Mq us lekiu lacks/ku esa ojh; oSKkfud ,oa iz/kku] oSKkfudksa ,oa dsUnz ds IHkh rduhdh fo"ks'kKksa dks vPNk dk;Z djus dh c/kkbZ nhA

ojh; oSKkufd ,oa iz/kku d`f'k foKku dsUnz] ljS;k] eqt¶Qjiqj fo0]iwlk] leLrhiqj funs"kd izlkj f"k{kk MkW0 jk0 iz0 ds

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Sl. No.	Items	Information					
	Major Farming	Cereal based farming system (Rid	ce/Wheat/ Maize)				
	System/enterprise	Pulses based farming system (Bla	Pulses based farming system (Black gram/Pigeon pea/ Green gram/ Chick pea)				
		Oilseed based farming system (Se	esamum / Mustard/Suflower/Linseed)				
		Agri –Horti. Based farming syste	m				
		Livestock Rearing					
1		Bee-keeping					
		Mushroom cultivation					
		Zero-tillage					
		Vermi-composting					
		Fisheries	Fisheries				
		Cereal based farming system (Rid	ce/Wheat/ Maize)				
2	Agro-climatic Zone	Zone 1					
	Agro ecological	Rain fed upland saline	Salinity is major problem				
	situation		• <u>Crops – Paddy, Wheat, Sugarcane, Pointed gourd, Water melon and orchard.</u>				
		Irrighted unlond	• Calcareous, loamy silt				
			• Paddy, Sugarcane, Potato, Iobacco,				
			Dominance of vegetables				
			Calcareous loamy silt				
		Rain fed upland	 Paddy, Sugarcane, Kharif Maize, Mustard, Chilli, fruits plant-Litchi, Mango 				
2			and citrus.				
5			Calcareous loamy soil				
		Irrigated medium land	Cereals, Sugarcane, Summer Moong				
			Water logging problem				
		Lowland	• Low lying areas, inundated from July to November suitable for fish and				
			Agri-fish system				
		Dain fadauntan diastina	Wheat / Moong after recede of water				
		Kain ied upland saime	 Salifility is inajor problem Crops Paddy Wheat Sugarcane Pointed gourd Water malon and orchard 				
			• Crops Traddy, wheat, Sugarcane, Tonned gourd, water meton and orenard.				

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

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4	Soil type	Characteristic	s		Area in ha		
	Alluvial, Sandy loam to loam in texture, calcareous in nature.	pH $- 6.5$ -9.5 Organic carbon $- 0.20$ -0 Available N $- 150$ -350 Available P ₂ O ₅ $- 25$ -50 Available K ₂ O $- 100$ -3 Deficient in S, Zn & B).75 %) Kg/ha) Kg/ha 00 Kg/ha		247721		
	Productivity of	Сгор	Area		Production (MT)	Productivit	y (kg/ha)
	major 2-3 crops		(ha)				
	under cereals,	Rice	148000		46148	138	4
	pulses, oilseeds,	Wheat	95000		258180	281	0
	vegetables, fruits	Maize (Rabi+Kharif)	36500	500 54015		1542	
	and others	Gram	122 141		1156		
_		Lentil	1100 635		700		
5		Pea	112		104	929	
		Moong	25355		13514	533	
		Arhar	492		856	174	0
		Rapeseed and Mustard	6500		3777	789	
		Linseed	54		47	875	
		Sunflower oil	6		9	150	5
		Sesamum	30		26	860	
	Mean yearly	Month			Temperature (⁰ C)	Average	Average
	temperature, rainfall, humidity of the		Min Te	emp.	Min Temp.	- Rainfall (mm)	Humidity (%)
	district	January-2022	8.1		22.8	00	70.5
6		February -2022	10.	7	25.0	00	69.5
-		March-2022	13.:	5	30.3	4.2	59.5
		April- 2022	19		40	11.6	53
		May- 2022	24.	3	34.0	135	73

		June-2022	26.5	36.0	235	70.5
		July-2022	26.0	33.6	204.1	79
		August-2022	26.1	32.7	215	81.5
		September-2022	25.4	33.3	127	80
		October-2022	19.0	32.0	153	70.5
		November-2022	13.3	29.0	0.0	71
		December-2022	8.8	24.3	1.4	68.5
7	Production of major	Category	Population	Production	Categ	ory
	livestock products		(in thousands)			
	like milk, egg, meat	Cattle				
	etc.	Exotic	99.0	4000L/lactation	Mil	k
		Indigenous	142.5	1500/lacation	Mil	k
		Buffalo	138.0	2400/lacataion	Mil	k
		Goats	399	2-3 kids	Litte	er
		Pigs	19.2	6-8 niglet	Litte	r

Note: Please give recent data only

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

Sl.	Name of	Name of	Name of the villages	Major crops	Major problems identified	Identified Thrust
No.	Taluk	the block		& enterprises	(crop-wise)	Areas
1.	Muzaffarpur (East)	Saraiya	Saraiya Pokhraira, Biadih, hatauliya Madwapakhar, Bakhara. Paigambarpur, Ambara. Anandpur, Basokund, Bahilwara Ambara tej singh Basochak, Basudeo patti	Paddy, Wheat, Vegetable, Vermi-composting, Mushroom cultivation, Organic farming, Protective cultivation of vegetables Use of farm machinery like zero till seed drill, grubber, reaper etc.	Low productivity due to use of traditional variety and indiscriminate use of chemical fertilizers and bio-pesticides Not aware about the importance of fodder crop	ImprovingtheProductionandproductivityofcereals, oilseeds andpulsesIncomegenerationthroughmushroomanditsvalueaddition

			Ibrahimpur, Sujawal pur, Bishunpur basant urf Suba, Lakshmipur Arar, Biadih, Chitari, Rupauli Chandkewari			vermi-compost production Fisheries, micro irrigation
2.	Muzaffarpur (East)	Madwan	Chainpur, Bhagwatpur, Karja, Dwarikanathpur, Mohammadpur, Khaje Bagahi, Bhagwatpur Karja Anant, Bishunpur Aima, Chiknouta urf Harpur lahouri	Paddy, Wheat, Vegetable, Vermi-composting, Organic farming,	Low productivity due to use of traditional variety and indiscriminate use of chemical fertilizers and bio-pesticides	Improving the Production and productivity of cereals, oilseeds and pulses Income generation through mushroom and its value addition vermi-compost production Fisheries, micro irrigation
3.	Muzaffarpur (East)	Kanti	Kothia, Manikpur narrottam, Mirjapur, Narsanda, Pokhraira Harpur ganesh, Sirsiya Bujurg, Sonversa	Vegetables Mushroom Vermiculture Organic farming	Low productivity due to poor fertility of the soil	Improving the productivity of Potato, Veg., and Maize Income generation through mushroom and its value addition vermi-compost production Fisheries, micro irrigation

4	Muzaffarpur (East)	Minapur	Ghoshaut, Daud Chapara, Harpur Basudeo Miky, Bajjar Munaria, Kalyanpur,	Paddy, Wheat, Vegetables Mushroom Vermiculture Organic farming	Low productivity due to poor fertility of the soil	Improving the productivity of Potato, Veg., and Maize Income generation through mushroom and its value addition vermi-compost production Fisheries, microirrigation
5	Muzaffarpur (East)	Paroo	Mathia Chandkewari Laloo chapara Saraiya bajar Gariba Gauda, Chochahi Raghunathpur Sakhra, Fanda, Garha Bahram, Bhataulia, Gagdishpur Dharam Mohabatpur	Floriculture, Vegetable	Low productivity due to use of traditional variety and indiscriminate use of chemical fertilizers and bio-pesticides	Improving the productivity of Vegetable and oilseed and pulses
6.	Muzaffarpur (East)	Sahebganj	Maugraha Asli, Jahura, Deoghra,	Vermi-composting Kitchen gardening, Micro irrigation	Low productivity due to use of traditional variety and indiscriminate use of	Improving the productivity of Vegetable and oilseed and pulses

			Biswambharpur, Daha Chapara, Daria Chapara, Salempur, Vishuppur, Chak Pahar	Plantation of fruit and vegetables crop Mushroom cultivation Organic farming	chemical fertilizers and bio-pesticides	Aquaculture, production of fry and fingerling microirrigation
7.	Muzaffarpur (East)	Motipur	Hardi, Bhataulia	Vermi-composting Kitchen gardening, Micro irrigation Plantation of fruit and vegetables crop Mushroom cultivation Organic farming	Low productivity due to use of traditional variety and indiscriminate use of chemical fertilizers and bio-pesticides	Improving the productivity of Vegetable and oilseed and pulses

2. c. Details of village adoption programme:

Name of the villages adopted by Sr. Scientist & Head and SMS (in year 2022) for its development and action plan

Name of village	Block	Action taken for development
Bhagwatpur	Madwan	Vermi composting, Zero tillage, DSR, organic farming, Micro irrigation, Dairy farming, OFT, FLD,
		PRA conducted, CFLD on red gram, rain water harvesting structure, CRA project.
Dwarikanathpur	Madwan	Protective cultivation, Micro irrigation, tissue culture banana, fodder production through Hydroponic
		method, Vermicompost, Mushroom cultivation, rejuvenation of orchard, CFLD on red gram, Fisheries
		& Micro irrigation, PRA conducted, rain water harvesting structure, CRA project.
Ghogharaha	Saraiya	Increasing seed replacement rate, Mushroom cultivation, Mushroom spawn production, Dairy
		management, Vermicomposting, IPM, off campus training, Swachhta Abhiyan, CSISA, FLD, OFT,
		INM, Value addition of fruits and vegetables, Income generating activities as lac bangle & soft toys
		etc.

Basochak	Saraiya	Zero Energy Cool Chamber under OFT on QPM based supplementary foods, Mushroom cultivation,
		Value addition of fruits and vegetables, Harmetic bag, Income generating activities as lac bangle & soft
		toys, New storage technique, pest management etc.
Ragho chapra	Saraiya	Vermi composting, Zero tillage, DSR, organic farming, FLD, rain water harvesting structure, organic
		mulching, Nutri-Garden, Harmetic bag, etc.

2.1 **Priority thrust areas**

S. No	Thrust area
1.	Improving the productivity of cereals, Oilseeds and Pulses.
2.	Promote Vermi- composting for sustainable agriculture.
3.	Farm Women empowerment through SHG in villages.
4.	Income generation through SHG beekeeping, Mushroom cultivation, Preservation of fruits and vegetables, Lac bangle.
5.	Resource Conservation Technology.
6.	Increasing the productivity of Livestock, Poultry, and Goat farming& Fish.
7.	IPM of litchi and mango orchards.
8.	Promote IFS by farmers.
9.	SHG & farmers club formation.
10.	Quality Seed Production.
11.	Mushroom spawn production and cultivation.
12.	Promotion of Azolla production as alternative feeding.
13.	Micro irrigation.
14.	Farm mechanization.
15.	Sustainable agriculture in climate change scenario.

3. <u>TECHNICAL ACHIEVEMENTS</u>

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

			OFT												FL	D							
	No. of technologies tested:													No. of tech	nologi	les de	monst	rated:					
Number	r of OFTs			Number of farmers								Num	ber of FLDs			l	Numbe	er of fa	armers	5			
						Α	chieve	ment	-									Ac	hiever	nent			
Target	Achievement	Target	S	С	S	Г	Otl	ners		Total		Target	Achievement	Target	SC		S	Т	Ot	hers		Total	
			Μ	F	Μ	F	Μ	F	Μ	F	Т				Μ	F	Μ	F	Μ	F	Μ	F	Т
11	11	77	6	2	0	0	54	54 8 65 12 77		10	11	100	10	5	0	0	74	20	84	25	109		

				Train	ing										Ext	tension	activi	ties						
														_										
Number of Courses Number of Participants											Numbe	Number of activities Number of participants												
				Achievement															Achiev	ement				
Target Achie	Achievement	Target	S	SC		Т	Oth	ers		Total	_	Target	Achievement	Target	SC	0	ST	Г	Oth	ers		Total		
Ŭ			Μ	F	Μ	F	М	F	М	F	Т	Ū		Ũ	М	F	Μ	F	М	F	М	F	Т	
108	92	2160	166	286	0	0	1045	749	121	103	224	12	12	12000	114	28	0	0	8078	/383	9227	466	1389	
			166	6 286			1045	749	3 3		6					9	6			8078	4385	9221	9	6

	Im	pact of	f capa	city bı	uilding	5					Impact of Extension activities											
		_							-													
Number of Pa	rticipants trained	ľ	Numbe entre	r of Tr preneu	ainees r/ enga	got em aged as	ploym skilled	ent (sel l manp	f/ wage ower)	e/	Number of Partie	cipants attended	Ν	Number entre	of par preneu	ticipan 1r/ eng	its got e aged as	employ s skille	ment (s d manp	self/ wa oower)	ıge/	
Target	Achievement	S	С	S	Т	Oth	ners		Total		Target	Achievement	SC		S	Т	Others			Tota	1	
_		Μ	F	Μ	F	Μ	F	Μ	F	Т			Μ	F	Μ	F	Μ	F	Μ	F	Т	
200	253	59	8	0	0	15 9	27	21 8	1 25 3 35 3		108	150	8	15	0	0	75 52		85 65		150	

Seed pro	duction (q)	Planting mater	rial (in Lakh)
Target	Achievement	Target	Achievement
100	115.00	0.10	0.18

Livestock strains and fish fit	ngerlings produced (in lakh)*	Soil, water, plant, man	ures samples tested (No)
Target	Achievement	Target	Achievement
0	0	500	554

* Give no. only in case of fish fingerlings

	_	_	_		Publication by	KVKs	
Item	Number	No. circula ted	No. of Researc h papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publicat ion, if any	Details of Award given to the publication
Research paper	2	O-line	-	-	-	-	-
Seminar /conference/ symposia papers	5	5	-	-	-	-	-
Books	1	1	-	-	-	-	-
Book chapter	1	1	-	-	-	-	-
Bulletins	-	1	-	-	-	-	-
News letter	03	-	-	-	-	-	-
Popular Articles	6	2	-	-	-	-	-

Technical reports	7	7	-	-	-	-	-
TOTAL	25	-					

3.1.1 Achievements on technologies assessed and refined

Completed OFT

OFT-1 Home Science

1.	Title of On farm Trial	Assessment of preparation methods of Carrot paste for more shelf life, enhancement of nutrition & income
2.	Problem diagnosed	Value added product of vitamin A rich carrot is limited.
3.	Details of technologies selected for assessment/refinement	nt
	Farmers Practice	Local people consume fresh carrot as such as vegetables or juice.
	Technology option-I	Preparation of carrot paste (Formulation-Ingredients carrot- 1.0 kg. sugar-250g, salt-10g, Glacial Acetic acid-5ml, sodium Benzoate-1g/kg
	Technologyoption-II	Preparation of carrot paste with spices. Formulation-Ingredients carrot-1.0 kg, sugar-250g, salt-10g, Glacial Acetic acid-5.0ml, Red Chili powder-3.0g. dried Ginger powder-5.0g, dried black pepper powdr-2.0g, cinnamon & cardamom powder-5.0g, sodium Benzoate-1.g/kg

	Technologyoption-III	Preparation of Carrot Paste blended with tomatoes.
		Formulation – Ingredients Carrot-500g, Tomatoes-500g, Sugar-250g, Salt-10g, Glacial Acetic
		acid-2.0ml, Red chili powder-3.0g. dried Ginger powder-5.0g, dried black pepper
		powder-2.0g, Cinnamon & cardamom powder-5.0g, sodium Benzoate-1.0g/kg
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ATARI, Patna
5.	Production system and thematic area	Value addition
6	Performance of the Technology with performance indicators	TSS %, Snsory analysis, Shelf life after 0,15,30,45,60 and 75 days at ambient and refrigerated condition, Packaging material
7	Final recommendation for micro level situation	The incorporation of carrot paste in processed cheese analogues resulted in quality products with nutritional and functional factors. Moreover, the use of carrot paste in cheese can be improving its antioxidant activity, vitamin 'A' content and sodium/potassium ratio compared with the control cheese, which is desirable since there is a search for healthy foods. In the same time, the carrot cheeses which have all milk comments plus carrot and sugar taste is good choice for children than the jam which carrot and more sugar than 15% only.
8	Constraints identified and feedback for research	Nil
9	Process of farmers participation and their reaction	Farmer participation was friendly and they showed positive attitude for supplementary food.

Thematic Area: Value addition

Problem Defnition: Value added product of vitamin A rich carrot is limited.

Technology assessed Table:

			Sens	ory ev	aluatio	on after	0 – 75	days					С	hange	e in TS	SS 0-7	5 day	s						
Treatmen	ļ	Ambie	nt co	nditio	n	Ref	rigerat	ted co	onditio	on	Ar	nbien	t con	dition	1	Re	friger	ated	condi	tion	cost of	gr	Ne	в:
t	0	15	30	45	60& 75	0	15	30	45	60& 75	0	15	30	45	60 & 75	0	15	30	45	60& 75	cultivatio n	OS S	t	С
F.P.	-																				15			
T.O.1	8.32	8.26				8.32	8.32				25	25				25	25				28			
T.O.2	8.42	8.42				8.42	8.42				25	25				25	25				32			
T.O.3	7.58	7.48				7.58	7.58				25	25				25	25				30			

Results: Carrot paste with TO I (Simple paste without spices) at room temperature showed total sensory evaluation score 8.6 against 8.0 in case of TO II (Paste with spices) and 7.0 in TO III (Paste blended with tomato) after 75 days of storage. The self life of TO I was best among three.







OFT-2: Agricultural engineering

1.	Title of On farm Trial	Assessment of the Turbo Happy Seeder for sowing wheat into heavy rice residues
2	Problem diagnosed	1 High speed of happy seeder with tractor effect the germination seed and
2.		Residue (Chopped residue used as mulch)

		2 Tradition sowing of wheat Crop residues can not play an important role in
		replenishing soil health and reducing environmental pollution from stubble
		burning.
3.	Details of technologies selected for assessment/refinement	nt
	Farmers Practice	Farmers Practice (FP)
	Technology option-I	Use of Happy Seeder in 15 cm. standing rice residue with 2.5 to 3 km./h speed (T1)
	Technology option-II	Use of Happy Seeder in 15 cm. standing rice residue with 3 to 3.5 km./h speed (T2)
4	Source of Technology (ICAR/ AICRP/SAU/other, please	Central Institute of Agricultural Engineering (CIAE-Bhopal)
4.	specify)	Punjab Agricultural University, Ludhiana
5.	Production system and thematic area	Farm Mechanization
6	Performance of the Technology with performance	Economic Analysis, Field Efficiency %, field capacity, Fuel Consumption (I/ha) and yield
Ũ	Indicators	(yield/ha), B: C ratio.
7	Final recommendation for micro level situation	The results of this study demonstrate that the use of Happy Seeder machine can lead to significantly improved crop yields, as well as improved efficiency in terms of reduced irrigation hours and improved seed germination rates. This makes the machine a cost-effective solution for farmers, as it can give improved yields and higher returns. The happy seeder machine also provides an environment friendly solution, as it reduces the amount of crop residue left in the field, thereby reducing the amount of fertilizer needed and improving soil quality.
8	Constraints identified and feedback for research	The research should focus on finding ways to increase the efficiency of the machine in terms of seeding and harvesting.
9	Process of farmers participation and their reaction	Training and demonstration

Thematic Area: Farm Machinery application Problem Definition: Sowing in heavy rice residue.

Technology assessed

Table : On-farm evaluation of Turbo Happy Seeder

Technology option	No. of trials	Residue (Choppe d residue used as mulch)	Theoretica l field capacity	Actual field capacit y	Field Efficienc y (%)	Fuel Consumptio n (l/ha)	Plant populatio n 20 DAS (m2)	No. of Effectiv e tillers per m2	Bundel weight (kg/m2)	Grain weigh t 1000 (gm)	Irrigatio n (hrs/ha)	Cost of cultivatio n	MS P	Yield (qt./ha)	Gros s Inco me	Net Incom e	BC rati 0
Farmers Practice (FP)	7	10 to 15 cm	NA		NA	48.1	82	188	1.15	33.66	22.92	42920	200 0	39.78	7956 0	36640	1.85
Use of Happy Seeder in 15 cm. standing rice residue with 2.5 to 3 km./h speed (T1)	7	8 to 12 cm	0.51	0.34	61.73%	13.73	92	195	1.28	34.17	18.33	35640	200 0	45.14	9028 0	54640	2.53
Use of Happy Seeder in 15 cm. standing rice residue with 3 to 3.5 km./h speed (T2)	7	5 to 10 cm	0.65	0.42	66.12%	14.85	97	202	1.36	35.75	13.75	34360	200 0	46.65	9330 0	58940	2.72

Result

The Plant population 20 DAS (m2) and crop yield was found 97 and 46.65q/h respectively in T2 with speed of 3.5 km/h which was higher in comparison of T1 (Plant population 20 DAS (m2) 92 & Yield 45.14) with speed of 2.5 km/h & FP (Plant population 20 DAS (m2) 82 & Yield 39.87) respectively.

- The operating speed of happy seeder could be varied from 2.5 to 3.5 kmph, working of happy seeder was found (T2) to be optimum at the speed of 3.5 kmph.

- The fuel consumption with happy seeder for sowing wheat varied from T1 13.73 l/hr and T2 14,85 l/hr at 2.5 to 3.0 km/h and 3.0 to 3.5 km/h respective operating speed.

- The field capacity of happy seeder for T2 at 3.5 kmph was 0.42 ha/hr.

- The field efficiency for happy seeder for T1 61.73 % and for T2 was 66.12%

The higher crop yield was recorded Tretment T2 of 46.65 q/ ha in comparison to T2 and T1 respectively. Gross returns were found Rs. 93300/ha in T2 (happy seeder), in comparison to T1 Rs. 90280/ha and FP Rs. 79560/ha (CT). The conclusion is Happy Seeder (HS) machine 3.0 to 3.5 km/h operating speed showed significantly good crop residue, effective seed germination rate, reduce the irrigation hour and higher yield (17.26%) in comparison to farmer practice.

Farmer's Feedback:

The Turbo Happy Seeder has been designed for sowing wheat into heavy rice residues, and it has been found to be effective in this application. The seeder works by cutting through the rice residue and allowing the wheat to be planted directly into the soil beneath. This reduces the amount of time and labor required for manual seeding, as well as reducing the amount of soil compaction that can occur with manual seeding. Additionally, the seeder has been found to reduce the amount of weed competition, which can improve the crop yield. Overall, the Turbo Happy Seeder is an effective and efficient way to sow wheat into heavy rice residues. The farmer felt that the happy seeder reduce the labour requirement, they appreciated the fact that the use of happy seeder would make the sowing timely and essay, it is water saving and ecofriendly and farmer it also controls weeds.

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Field Photograph							

OFT-3 Agricultural engineering Thematic Area: Farm Machinery application

Problem Defnition: Sowing in heavy rice residue.

Technology assessed

1.	Title of On farm Trial	Economic impact of AgroMet advisory services in rice-wheat cropping system
2.	Problem diagnosed	Agriculture is highly dependent on weather and subject to its variability.
3.	Details of technologies selected for assessment/re	efinement
	Farmers Practice	Cultivation Practices without Agromet- advisory services
	Technology option-I	Cultivation Practices with Weather forecast
	Technology option-II	Cultivation Practices AgroMet advisory report
4.	Source of Technology (ICAR/other, please	India Meteorological Department, India
	specify)	
5.	Production system and thematic area	Agro-meteorological

6.	Performance of the Technology with	Impact on Irrigation, Labour cost, Yield and Economic impact of farmer.
	performance indicators	
7.	Final recommendation for micro level situation	These services can help to reduce the cost of inputs, improve the efficiency of the crop, and increase yields. Ultimately, this will lead to a higher return on investment and an overall improvement in the economic impact of the rice-wheat cropping system.
8.	Constraints identified and feedback for research	The economic impact of AgroMet advisory services in the rice-wheat cropping system can be seen in increased yields, reduced input costs, and improved crop quality. By providing farmers with access to up-to-date information on crop management practices, AgroMat helps farmers reduce their input costs and increase yields. Additionally, AgroMet's services help farmers improve the quality of their crops, leading to increased profits.
9.	Process of farmers participation and their	Training and demonstration
	reaction	

Table 1 Assessment of weather based AgroMet Advisories for Paddy crop.

Particulars	Seed (Rs./Ha)	Fertilizers (DAP,Urea,Pota sh) (Rs./Ha)	Micronutrients (Zn,B) (Rs./Ha)	Pesticides (Rs./Ha)	Weedicide (Rs./Ha)	Labour (Rs./Ha)	Machine labour (Field Prepration) (Rs./Ha)	Irrigation (Rs./Ha)	Harvesting (Rs./Ha)	Total cost of cultivation	Grain Yield (q/ha)	Biomass (Q/ha.)	Gross return	Net Profit	B:C ratio
Cultivation Practices without Agromet- advisory services (FP)	1300	7500	850	800	2500	8000	11000	9000	4500	45450	36	4700	67968	22518	1.5

Cultivation Practices with Weather forecast (T1)	1150	7500	800	750	2250	7500	10000	8000	4500	42450	38	4900	71744	29294	1.69
Cultivation Practices with Weather forecast along and AgroMet advisory report (T2)	1050	6500	750	630	2100	7200	9500	7000	4200	38130	42	6200	77700	39570	2.04
Average saving with AAS	250	1000	100	170	400	800	1500	2000	300	6520	6				
AAS Percentage saving with AAS*	23.81	15.38	13.33	26.98	19.05	11.11	15.79	28.57	7.14	19.20	14.29				

Table 2 Economics of Wheat as influenced by AAS during Rabi season 2021-22.

Particulars	Land/ preparatio n & Sowing	Seed	Fertilizers (DAP,Urea,Potash)	Micronutrient s	Pesticides/ Insecticide/ Herbicide	Labour	Irrigatio n	Harvesting & Threshing	Total cost of cultivatio n	Grain Yield (q/ha)	Biomas s (Q/ha.)	Gross return	Net Profit	C:B
Cultivation Practices without Agromet- advisory services (FP)	6600	3780	6731.96	1000	1954.984	2300	7365	10000	39731.944	38.34	43.43	76680	36948.0 6	1.93
Cultivation Practices with Weather forecast (T1)	6200	3650	6621.848	900	1790	2200	6500	9389	37250.848	42.96	43.78	85920	48669.1 5	2.31
Cultivation Practices with Weather forecast along and AgroMet advisory report (T2)	6000	3391.51	6621.848	850	1598.856	2000	5700	9389	35551.214	43.15	44.25	86300	50748.7 9	2.43

Average saving with AAS	600	388.49	110.112	150	356.128	300	1665	611	4180.73	4.81	-	-	-	-
AAS Percentage saving with AAS*	10.00	11.45	1.66	17.65	22.27	15.00	29.21	6.51	11.76	11.15	-	-	-	-

Result: Results showed that the farmers who followed the agromet advisories were able to reduce the input cost by 11.76% in wheat, 14.19% in rice, and increase the net profit by 11.76% and 17.91%, respectively, as compared to the non-AAS farmers who did not follow the weather-based information (Tables 1 and 2). The net returns of AAS farmers over non-AAS farmers amounted to Rs. 4180/ha in wheat and Rs 6520/ha in rice, due to low input costs, following weather-based management practices and timely management of pests and diseases. This profit was achieved through crop management practices such as timely land preparation and sowing, adoption of recommended seed rates and suitable varieties, timely weeding, harvesting, and irrigation, as well as pesticide applications, according to agromet advisory bulletins.







OFT (On going):

OFT-1 Fisheries Sciences

1.	Title of On farm Trial	Assessment of effect of nanoparticles based fish feed additive on promoting growth, better feed utilization and disease resistance in fish.
2.	Problem diagnose	Reduced fish production due to improper use of feed and disease occurrence.
3.	Details of technologies selected for	Technology Option I (Farmer' Practice): Use of DORB + MOC (1:1)
	assessment/refinement	Technology Option II:- Use of formulated feed additive Nanoplus @CIFA
		Technology Option III:- Use of commercially available fish feed additive
4.	Source of Technology	ICAR-CIFA, Bhubaneswar, Odisha
5.	No. of Replications	07
6.	Production system and thematic area	Composite fish culture system

7.	Performance of the Technology with	Fish yield (ton/ha), net return (rs./ha), Gross return (rs/ha), B:C ratio
	performance indicators	
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their	Through physical visits & Personal interview
	reaction	

Results: Awaited

OFT-2 Fishery Science

1.	Title of On farm Trial	Assessment of efficacy of chemotherapeutics against prevalent disease in Muzaffarpur district i.e., Argulosis.
2.	Problem diagnose	Argulosis causes a potential rapid escalation of infection, causing substantial economic loss to the aquaculture industry.
3.	Details of technologies selected for assessment/refinement	Technology Option I:- Farmer' Practice Use of insecticide (Cypermethrine) @ 50 ml/acre/meter depth Technology Option II: Use of lactoclean @ 40gm/acre/meter depth Technology Option III: Use of CIFRI-ARGCURE @ 40ml/acre/meter depth
4.	Source of Technology	CIFRI, Barrackpore, West Bengal
5.	No. of Replications	07
6.	Production system and thematic area	Fish Production & Disease Management
7.	Performance of the Technology with performance indicators	Survival rate (%), Fish yield (ton/ha), B:C ratio
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	Random sampling.

Results: Awaited

OFT-3 Agricultural engineering

1.	Title of On farm Trial	Assessment of low-cost Mulching in Vegetable Crop production						
2.	Problem diagnose							
----	--	--	--	--	--	--	--	--
3.	Details of technologies selected for assessment/refinement							
		FP: No mulch						
		Technology Option II:- Banana leaf mulch						
		Technology Option III:- Crop Residue mulch						
4.	Source of Technology	IGKV, Raipur, (C.G.)						
5.	No. of Replications	7						
6.	Production system and thematic area	Resource conservation						
7.	Performance of the Technology with	Soil testing must be done before and after the application of biodegradable mulch to check its						
	performance indicators	effect & Calculate weed population at different period.						
8.	Constraints identified and feedback for	NA						
	research							
9.	Process of farmers participation and their	NA						
	reaction							

Results: Awaited





Field photogaraph under OFT

OFT-4 Home Science

1	Title	Development of plant based low-cost herbal Gulal					
2	Problem diagnose	Scientific tests have verified that synthetic dye-based 'holi' powder can cause skin abrasions, eye irritation, allergy and can even trigger asthma.					
3	Details of Technologies selected for assessment/refinement						
	Farmer's Practice (FP):	Use synthetic colour and arrowroot powder as ingredients in holi powder					
	Technology option I (TO- I)	Use of kitchen products and its residue :- Arrowroot Powder (1 kg) + Beetroot Juice(750 ml)/Raw turmeric paste (300 gm)/Marigold flower paste (750 gm /Flat bean leaves (1 kg)					
	Technology option II (TO- II) :	Aqueous solution of food color + Arrowroot Powder of 10% concentrations for three differen colour were prepared.					
4	Source of technology	DRPCAU, Pusa, Samastipur & AAU, Jorhat, Assam					

5	Replication	7
6	Production System & Thematic area	Value addition
7	Critical input	Arrowroot Powder, Beetroot Juice, Raw turmeric paste, Marigold flower paste, Flat bean leaves, synthetic colour and food colour
8	Performance of Technology with performance indicator	Shelf life after 3, 6, 9 and 12 months, Packaging material, B:C Ratio
9	Process of farmers participation and their	One-to-one interaction with farmers and Demonstration
	reaction	

Results: Awaited

OFT-5 Home Science

1	Title	Assessment of natural extracted dye on cotton/silk fabric					
2	Problem diagnose	Lack of awareness about natural dyeing and waste management of litchi leaves and onion peels.					
3	Details of Technologies selected for assessment/re	finement					
	Farmer's Practice (FP):	Use of chemical colour/direct dye					
	Technology option I (TO- I)	Eco friendly natural dyeing of fabric through litchi leaves and onion peels					
	Technology option II (TO- II)	Eco friendly natural dyeing of fabric through litchi leaves and onion peels with different mordant					
		(Potassium dichromate, ferrous sulphate, copper sulfate, alum)					
4	Source of technology	DRPCAU, Pusa, Samastipur					
5	Replication	7					
6	Production System & Thematic area	Value addition of fabric					
7	Critical input	Litchi leaves, onion peels, silk fabric, different mordant					
8	Performance of Technology with performance	Light and wash fastness, Market value and B:C Ratio					
	indicator						
9	Process of farmers participation and their	One-to-one interaction with farmers and Demonstration					
	reaction						

Results: Awaited

OFT-6 Crop production

1	Title of On farm Trial	Organic cultivation package in Cauliflower.
2	Problem diagnosed	Excessive use pesticides in cauliflower cultivation
3	Details of technologies selected for assessment/re	finement
	Farmers Practice (FP)	Application of 5 MT FYM/ha + 32kg N + 23kg P2O5 + 15kg K2O/ha through inorganic source
	Technology option-I	Application of 5 MT FYM + 25% of RDF (NPK) through organic source
	Technology option-II	Seed and seedling treatment with Beejaamrit + 3 spray of Jeevaamrit at 21 days interval +
		application Ghanjeevaamrit @ 1q/ha as basal application and 30 DAS *Calculation of RDF on
		the basis of N only. 25% RDF with be applied through Karanj cake and vermicompost Neem
		based insecticide to be used for pest management and suitable pheromone trap will be used.
4	Source of Technology (ICAR/	Ram Krishna Mission, KVK, Ranchi & National Centre on Organic Farming, Ghaziabad Early
•	AICRP/SAU/other, please specify)	Variety of crop to be taken.
5	Production system and thematic area	Organic farming
•		
6	Performance of the Technology with	Plot size (10x10 m2)/ in each tech. option, soil data before and after (pH, EC, OC, NPK,), Yield
•	performance indicators	data
7	Final recommendation for micro level situation	NA
•		
8	Constraints identified and feedback for	NA
	research	
9	Process of farmers participation and their	One-to-one interaction with farmers and Demonstration
	reaction	

Results: Awaited

OFT-7 Plant protection

1.	Title of On farm Trial	Integrated pest management of litchi fruit borer (Conopomorpha sinensis)
2.	Problem diagnosed	Infestation of litchi fruit borer
3.	Details of technologies selected for	
	assessment/refinement	
	Farmers Practice (FP)	Either untreated or spray of any insecticide as per suggestion of other farmer or input dealers.
	Technology option-I	• Two sprays of systemic insecticide viz., Imidacloprid 17.8 SL @0.5-0.7 ml/lit during
		September at 15 days interval on emerging shoots.
		• Spray of NSKE before flowering to avoid egg laying.
		• Spray of Novaluron 10 EC @1.5 ml/lit at clove size. 8
		• Spray of Emamectin Benzoate 5 SG (0.4g/l) during aril (pulp) development stage.
		• Last spray of Novaluron 10 EC @1.5 ml/l at about 10 days before expected fruit harvesting.
	Technology option-II	• Deep ploughing of orchard twice a year (just after fruit harvest and in the month of
		November / December)
		• Pruning and destruction of affected twigs twice a year (at fruit harvest stage and at new flush
		stage i.e., September / October)
		• Soil application of 4 kg Castor cake + 1 lit NSKE per tree in the first fortnight of July
		• Spraying of Spinosad 45 SC at new flush stage (September / October) and at fruit colour
		break stage (Last week of April)
4.	Source of Technology (ICAR/	ATARI, Patna
	AICRP/SAU/other, please specify)	
5.	Production system and thematic area	Plant Protection
6.	Performance of the Technology with	Percentage infestation, yield, Net return, cross return and B:C ratio
	performance indicators	
7.	Final recommendation for micro level	NA
	situation	
8.	Constraints identified and feedback for	NA
	research	

9.	Process of farmers participation and	One-to-one interaction with farmers and Demonstration
	their reaction	

Results: Awaited

OFT-8 Plant protection

1.	Title of On farm Trial	Eco-friendly management practices to control fruit fly in cucurbits.
2.	Problem diagnosed	Infestation of fruit fly in cucurbits
3.	Details of technologies selected for assessme	nt/refinement
	Farmers Practice (FP)	Spray of any pesticides as per their knowledge
	Technology option-I	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-II	Bait Application Technique (BAT) spray liquid of 0.1% insecticide (malathion) and 10% Jaggery or 10% ripe banana or erect cue lure (Para Pheromone trap) @ 3 per acre to attract and trap male fruit flies.
4.	Source of Technology (ICAR/	ATARI, Patna
	AICRP/SAU/other, please specify)	
5.	Production system and thematic area	Plant Protection
6.	Performance of the Technology with	Percentage infestation, yield, Net return, cross return and B:C ratio
	performance indicators	
7.	Final recommendation for micro level	NA
	situation	
8.	Constraints identified and feedback for	NA
	research	
9.	Process of farmers participation and their	One-to-one interaction with farmers and Demonstration
	reaction	

Results: Awaited

3.1.2 Technology Assessed by KVK (Discipline wise)

Sl. No.	Discipline	Thematic areas	Thematic areasNo. of the technologies (Technology Interventions)		No. of Locations
1.	Home science	Women Empowerment	2	14	14
2.	Agricultural	Farm mechnization	1	7	7
	engineering	Agro-Meterology	1	7	7

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

SI. No.	Сгор	Thematic area	Technology Demonstrated with	Area ((ha)				No de	. of famons	armer tratio	s/ n			Reasons for shortfall in
			detailed treatments	Proposed	Actual	SC		ST		Oth	ers	Total			achievement
						М	F	М	F	Μ	F	Μ	F	Т	acmevement
1	Bio fortified seed on Paddy	Crop Production	Effect of bio fortified seed on yield and quality of paddy.	2.5	2.5	2	0	0	0	8	0	10	0	10	
Total			2.5	2.5	2	0	0	0	8	0	10	0	10		

Details of farming situation

Sl. No.	Crop	Season	Farming situation	Soil type	Stat (Status of soil (Kg/ha)			Sowing	Harvest	Seasona 1 rainfall	No. of rainy
			ated)		N	P ₂ O ₅	K ₂ O	scrop	uaic	uale	(mm)	days
1		Kharif	Irrigated	Sandy	295.8	25	15	Paddy	July 2022	12		38
	Rice			loam			6.3	/Maiz	-	Nov.	1145	
							8	e				

2	Wheat	Rabi	Irrigated	Sandy loam	345	25. 7	17 6	Rice/ Maize	Novembe r 2022	20 March	1145	38
3.	Vegetable	Rabi/Su mmer	Irrigated	Sandy loam	-	-	-	Rice/ Maize	15-30 October	-	1145	38
4.	Mustard, chickpea, lentil	Rabi	Irrigated	Sandy loam	-	-	-	Rice/ Maize	20-30 Novembe r	-	1145	38
5.	Fisheries	-	_	_	-	-	-	-	-	-	1145	38

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

B. Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

		Name of the	No. of		Yield (q/ha)	%	Ot	her neters	*Ecor	nomics of (Rs.)	demonstra /ha)	ation	*]	Economic (Rs/	s of check ha)	ζ.
Сгор	Thematic area	technology demonstrated	Farme r	Area (ha)	Demon s ration	Chec k	chang e in yield	Dem 0	Chec k	Gros s Cost	Gross Retur n	Net Retur n	** BC R	Gros s Cost	Gross Retur n	Net Retur n	** BC R
Mustar d	Plant protectio n	Management of soil borne diseases in mustard	15	10 acre						Cro	p standir	ıg					

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

Pulses

	Thomatia	Name of the	No. of	Are	Yield	(q/ha)	%	*Econ	omics of (Rs./	demonstr 'ha)	ation	*]	Economic (Rs./	s of chec 'ha)	k
Crop	Area	demonstrate d	Farmer s	a (ha)	Dem 0	Chec k	Increas e	Gros s	Gross Retur	Net Retur	** BC	Gros s	Gross Retur	Net Retur	** BC
					•			Cost	n	n	R	Cost	n	n	R

Total								

Other crops FLD

	Thomati	Name of the	No. of	A 100	Yield	(q/ha)	%	*Economi	cs of demon	stration (R	s./ha)	*	Economics (Rs./	s of check ha)	
Сгор	c Area	demonstrate d	Farm ers	(ha)	Dem o	Chec k	Increa se	Gross Cost	Gross Return	Net Return	** BC R	Gross Cost	Gross Return	Net Retur n	** BCR
Paddy	Crop producti on	DSR with bio fortified seed	10	2.5	53.64	44.54	16.96	35800	109425. 1	73625	2.05	40950	90861.0 4	49911. 06	1.21
Wheat	Micro nutrient	HD-2967 with line sowing	10	2.5	Crop s	tanding									
		Total	20	5.00											

Livestock

		Name of the	No. of	No.	Ma param	jor 1eters	%	Oth paran	ler neter	d	*Econo emonstra	mics of ation (Rs.	.)	*F	Conomic (R	s of chee s.)	:k
Category	Thematic area	technol ogy demon strated	Farm er	of unit s	Demo ns ration	Chec k	in major paramet er	Demo ns ration	Chec k	Gros s Cost	Gross Retur n	Net Retur n	** BC R	Gros s Cost	Gross Retur n	Net Retur n	** BC R
Fisheries	Composit e fish culture	Amur commo n carp culture	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Fisheries	Water quality managem ent	CIFAX	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Total																	

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

** BCR= GROSS RETURN/GROSS COST

Other enterprises

Cotogowy	Name of the	No. of	No.of	Maj param	jor leters	% change	Oth paran	er neter	den	*Econo nonstrati Rs./1	mics of ion (Rs.) unit	or	*E	conomic (Rs.) or 1	s of che Rs./unit	ck
Category	demonstrat ed	Farmer	units	Demo ns ration	Chec k	in major paramet er	Demo ns ration	Chec k	Gro ss Cost	Gross Retur n	Net Retur n	** BC R	Gro ss Cost	Gross Retur n	Net Retur n	** BC R

Women empowerment

		No. of	Observ	ations	
Category	Name of technology	demonstration	Demonstration	Check	Remarks
		S			
Farm Women	1. Storage in hermetic bag (to	10	-	-	
	minimize losses): Paddy				
	2. Storage in hermetic bag (to	10	-	-	
	minimize losses): Wheat				
	3. Storage in hermetic bag (to	5	-	-	Result awaited
	minimize losses): Moong				
	4.Storage of maize in hermetic bag	5	-	-	
Farm Women	Preparation of Litchi Squash	7	-	-	Result awaited

Farm implements and machinery

Name of the	C	Name of the technology	No. of	Are	File observ (output hou	ed ation t/man r)	% change in major	I	abor reduct	ion (man da	ys)	Cos	t reduction (I	Rs./ha or Rs./	/Unit)
implement	Crop	demonstrate	Far mer	a (ha)	Demon	Chec	paramete	Sowing	Irrigatio	Weedin	Harvesing	Sowing	Irrigatio	Weeding	Harvesin
		d		()	s Ration	k acre	r		n	g	/picking		n		g /picking
					acre										1.5

Multi crop planter	Mustard, chickpea, lentil	Multi crop planter	20	10	2	8	75.00	6	Nil	Nil	Nil	2400	Nil	Nil	Nil
Potato planter	Potato	Potato planter	7	2.8	2	33	93.94	31	Nil	Nil	Nil	12400	Nil	Nil	Nil

					Production	q/ha				
Сгор	Variety/ Tech demo.	<u>Season</u> Kharif/ Rabi	Area (ha)	No. of Farmers	Н	L	Α	Local check (q/ha)	Increase in yield %	BC ratio
Vegetable (Cauliflower)	Performnce Power Operated Rotary Weeder for Vegetable Crops	Rabi	1	10	280	105	192.5	168	Labor cost decreasing 82.56 %	6.92
Mustard, chickpea, lentil	Multicropping sowing with multi crop planter	Rabi	5	8	18.85	14.35	15.8	13.78	14.65	2.88

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



Demonstration details on crop hybrids

Сгор	Name of the	No. of Farmers	Area (ha)	Yie	eld (kg/ha) / 1 parameter	major		Economics	(Rs./ha)	
	Hybrid			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					

Technical Feedback on the demonstrated technologies

SI.	Сгор	Feed Back
No		
1	Hermetic bag	It is very effective for storage of wheat, paddy and other seeds
2	Micro-irrigation	Increased yield with drip irrigation has been found in several crops i.e., ranged
		between 40–60 % depending on the crops/varieties and method of irrigation.
3	Multicrop	It helps in planting the multicrop at a time and resource conservation.
	planter	
4	Happy seeder	The happy seeder machine also provides an environment friendly solution, as it
		reduces the amount of crop residue left in the field, thereby reducing the
		amount of fertilizer needed and improving soil quality.
5	Potato planter	Citing that the planter is easy to use and it helps in saving time and effort when
		compared to planting potatoes by hand. Additionally, they have noted that the
		planter is highly efficient and that it helps create a uniform crop
6	Preparation of	As litchi fruit is perishable, so litchi squash can be prepared easily and can be
	Litchi squash	stored upto 6 months.

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.		22.03.2022	1	20	Bio fortified seed
2.		24.03.2022	1	40	Button mushroom & oyster mushroom cultivation
3.	Field days	26.03.2022	1	56	Storage in hermetic bag (to minimize losses): Paddy, wheat & maize
4.		13.04.2022	1	40	Wheat corp cutting under CRA
5.		8.04.2022	1	300	CSISA wheat crop cutting
6.	Media coverage	-	8	-	Mushroom cultivation at Bayadih village, storage in harmic bag, cultivation of wheat through ZTSD machine etc.

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif and Rabi: Performance of the demonstration under CFLD on oilseed during Rabi -2022:

SI. No	Crop demonstr	Existing (Farmer'	Existin g yield	١	/ield (q/h w.r.to	a)	Name of Variety +	Num ber	Area in ha	Yield	d obtaiı (q/ha)	ned	Yield gap minimized		
·	ated	s)	(q/ha)	Distric	State	Potenti	Technology	of					(%)		
		name		t yield (D)	(S)	ai yield (P)	ed	farm ers		Max.	Min	Av.	D	S	Ρ
1.	Rapeseed & Mustard	Local	13.28	12.6	13.75	22.00	R. Sufalam INM & IPM	101	50	15.5	13.2 8	14.2 4	48.0 1	35.6 5	-15.2 8

A. Technical Parameters:

B. Economic parameters

SI.	Variety demonstrated		Farmer's Exist	ting plot		Demonstration plot				
No.	& Technology demonstrated	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	
1	R. Sufalam INM&IPM	25000.00	58764	33764	1.35	25700	82526.25	56826.25	2.21	

C. Socio-economic impact parameters

SI. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household (kg)	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.	Rapeseed & Mustard (R. suflam)	1580.00	1600.00	5050	10.00	10.00 67 kg		In crop season, 26 mandays

D. Oilseed Farmers' perception of the intervention demonstrated

SI.	Technologies			Farmers' Pe	rception pa	rameters	
No.	demonstrated (with name)	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, INM & IPM	 Oil and oil seed cake used for human and animals respectively. As it is profitable enterprise, 	Higher yield and oil percentage	This socio-economi c status may be uplifted because of less cost involvement and high feasibility of adoption by	Oil extracting small scale industries is not available as if it will produce	Up to large scale	 System approach must be promoted. Line sowing/ seed sowing through zero tillage/ seed cum fertidrill for getting higher yield.

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3. Increa the hou	ed sma	ll ar ginal	nd	at large scale.	
hold inco	ne. fam	ers.			

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback		
Medium height, more siliqua, high oil content	High yield and oil content	High yield and oil content	Good performance and ready for accepting variety for next		
and grain yield			year		

F. Extension activities under CFLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Field day	18.01.2022, KVK, Saraiya	18
2.	Field day	19.02.2022, Pokharaira	20

- G. Sequential good quality photographs (as per crop stages i.e. growth & development)
- H. Farmers' training photographs
- I. Quality Action Photographs of field visits/field days and technology demonstrated.

PHOTOGRAPS OF CFLD on Oilseeds



Critical inputs distribution at Village Ghosaut, Meenapur

Critical inputs distribution at KVK



Critical inputs distribution at KVK



Field visit after 40 days Chainpur, Madwan



Field visit after 30 days at Chainpur, Madwan



Crop growth stage at 50 DAS at Village Chainpur

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input		151193.00	
Rapeseed &	ii) TA/DA/POL etc. for monitoring			
mustard	iii) Extension Activities (Field day)		4193.00	
	iv)Publication of literature			
Total		160241.00	155386.00	-84614.00
Technology Age	ent	Nil	Nil	Nil
Total		160241.00	155386.00	-84614.00

J. Details of budget utilization

Performance of the demonstration under CFLD on Pulses during Rabi and summer-2022:

A. Technical Parameters:

SI. No.	Crop demonstrat	Existing (Farmer's	Existing yield	Y	Yield (q/ha) w.r.to		Name of Variety +	Numbe Are r of a in		Yield obtained (q/ha)			Yield gap minimized (%)						
	ed) variety name	(q/ha)	District State yield yield		State Poten yield tial		State Poten yield tial		State Poten yield tial		farmer s	ha						
				(D)	(S)	yield (P)	eu			Max.	Min.	Av.	D	S	Ρ				
1.	Lentil	Local	10.5	8.5	9.75	19	Improved Variety- HUL-57, INM & IPM	58	20	15	10.0 5	12.5 2	46.4 7	27.6 9	-34.4 7				
2.	Chick pea	Local	11.5	11.9	12	19	Improved variety- TG-186	79	20	15	11	13	9.24	8.33	-31.5 7				

B. Economic parameters

SI. No.	Variety demonstrated	Farmer's Existing plot								
	& Technology demonstrated	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	Farmers, feedback
1.	HUL-57 Improved Variety, INM & IPM	24700	68860	44160	1.78	25000	68860	44860	2.86	Low yield of pulse crop due to crop damage by
2.	TG-186 & improved variety	25500	66300	34150	1.33	25000	66300	42300	2.76	blue bull.

Note: MSP of lentil & Chickpea @5100/-

SI. No	Crop and variety Demonstrate d	Total Produce Obtained (kg)	Produce sold (Kg/hous ehold)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distribute d to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1.	Lentil- (HUL-57)	1225.00	1100.00	5500.0 0	40.00	25.00	Agriculture & education	In crop season 52 mandays
2.	Chickpea – (TG-186)	1350.00	1300.00	5100.0 0	35.00	25.00	Agriculture& education of	In crop season 50 mandays

C. Socio-economic impact parameters

D. Pulses Farmer's perception of the intervention demonstrated

				Farme	rs' Perception p	arameters	
SI. No.	Technologies demonstrated (with name)	Suitability to their farming system	uitability to their Likings farming (Preference) system		Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	Improved variety, INM & IPM	Pulse is important for nutritional security and soil health.	Higher protein percentage, Medium plant height, nutritional and food pulse security of the house hold,	This component is economically compatible with the prevalent farming system of the district and it needs not heavy investment so that it can be adopted even by small and marginal famers.	 Pulse industries are not available as if it will produce at large scale. 2.Effective procurement policy is not available 	Up to large scale	System approach must be promoted.

E. Specific characteristics of Technology and performance

Specific Characteristic	Performance	Performance of Technology Vis-à-vis Local Check	Farmers Feedback				
Improved variety: High	The effect of improved	The performance of	The performances of				
yielding variety i.e. HUL-57	variety i.e. HUL-57 along	technology i.e. improved	crop were gain higher				
INM: Seed treatment through	with INM and IPM	variety; INM and IPM were	yield due to full				
Rhizobium and PSB and	recorded higher yield.	recorded higher yield 12.25	package and practice				
application of micronutrient.		q/ha over local check.	as well as implements				
			of improved				

Improved variety: High	The effect of improved	The performance of	technology under
yielding variety i.e. TG-186.	variety <i>i.e.</i> TG-186 along	technology <i>i.e.</i> improved	supervision of KVK
	with INM recorded	variety (TG-186) were	scientist.
	maximum yield.	recorded higher yield	
		13.50q/ha over local check.	

F. Extension activities under CFLD on pulses conducted till dates:

SI. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Field day on chickpea	15.02.2022 Pokharaira, Saraiya	10
2.	Field day on lentil	24.02.2022 Ratanpura, Motipur	26

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

- H. H. Farmers' training photographs
- I. I. Photographs of field visits/field days

Photographs of CFLD on Pulses

	Ringafika uteru Ringafika uteru Berne Berne Ringafika uteru Ringafika uteru Ri	The second se
Training under CFLD on Lentil at ratanpura	Training under CFLD and Critical inputs distribution	Field day under CFLD on lentil at Anjanakot
		Harris dage dage and state
Crop growth stage at 65 DAS under CFLD on Chickpea at Pokharaira village	Field dayon Chickpea at Pokharaira, Saraiya	Field day under CFLD on Chickpea

E. Details of budget utilization

Сгор	Items	Budget	Budget	Balance
(provide crop		Received	Utilization	(Rs.)
wise		(Rs.)	(Rs.)	
information)				
Chickpea and Lentil	i) Critical input	108046.00	276800.00	-78225.00

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ii) TA/DA/POL etc. for		7796.00	
monitoring			
iii) Extension Activities		6150.00	
(Field day)			
iv)Publication of			
literature			
Total	00.00	290746.00	-78225.00

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

Farmers and farm women (On campus)

Thematic Area	No.	No. of Participants								Grand Total			
	of		Othe	r		SC			ST				
	Cou	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т
	rses												
I. Crop Production													
Weed Management													
Resource Conservation													
Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Organic farming													
Production of organic inputs													
Others, (cultivation of crops)													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient													
management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and													
high value crops													
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green													
Houses, Shade Net etc.)													
Others, if any (Cultivation of													
Vegetable)													
Training and Pruning													
b) Fruits													
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	1	29	0	29	0	0	0	0	0	0	29	0	29
Others if any													
d) Plantation crops													
Production and Management													
technology													
Processing and value addition													
Others, if any													
a) Tuber group													
Production and Management													
technology													
Decentrology													
Processing and value addition													
Others, if any													
t) 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	1	6	12	18	1	0	1	0	0	0	7	12	19
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													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal													
products													
Others, if any Goat farming													
V Home Science/Women													
empowerment													
Household food security by													
kitchen gardening and													
nutrition gardening													
Design and development of													
low/minimum cost diet													
Designing and development													
for high nutrient efficiency													
diet													
Minimization of nutrient loss													
in processing													
Gender mainstreaming													
through SHGs													
Storage loss minimization													
techniques													
Enterprise development													
Food preservation and Value	1	0	12	12	0	2	2	0			0	16	16
addition	T	0	13	13	0	3	3	0	0	0	0	10	10
Income generation activities													
for empowerment of rural													
Women													
Location specific drudgery													
reduction technologies													
Bee-keeping													
Capacity building													
Coarse grain	1	1	22	23	0	7	7	0	0	0	1	29	30
Women and child care													
Mushroom Production	2	10	25	35	6	5	11	0	0	0	16	30	46
VI. Agril. Engineering													
Installation and maintenance													
of micro irrigation systems													
Use of Plastics in farming													
practices													
Production of small tools and													
implements													

Repair and maintenance of													
farm machinery and													
implements													
Small scale processing and													
value addition													
Post-Harvest Technology													
Other, Agro Metrology													
Soil & Water conservation	3	37	20	57	4	2	6	0	0	0	41	22	63
Others, if any(FMP)	1	0	0	0	2 4	24	48	0	0	0	24	24	48
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease													
Management													
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	1	17	1	10	2	0	2				20	4	21
disease	1	1/	1	18	3	0	3	0		0	20	1	
Fish feed preparation & its													
application to fish pond, like													
nursery, rearing & stocking													
pond													
Hatchery management and													
culture of freshwater prawn													
Breeding and culture of													
ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value													
addition													
Others, if any													
IX. Production of Inputs at													
site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production	İ		i	İ		i – – –		i	i	i –			

Vermi-compost production													
Organic manures production													
Production of fry and													
fingerlings													
Production of Bee-colonies													
and wax sheets													
Small tools and implements													
Production of livestock feed													
and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and													
Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management													
of SHGs													
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	11	100	93	193	3	41	79	0	0	0	138	134	272

B) Rural Youth (on campus)

Thematic Area	No. of			No.	of Pa	artici	pant	S			Gra	and T	otal
	Course		Othe	r		SC			ST				_
	S	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Mushroom Production	1	13	8	21	7	2	9	0	0	0	20	10	30
Bee-keeping	1	8	12	20	2	3	5	0	0	0	10	15	25
Integrated farming													
Seed production													
Vermicompost Production	1	12	Q	20	0	0	0	0	0	0	12	8	20
technique	1	12	0	20	0	0	0	0	0	0	12	0	20
Integrated Farming													
Planting material													
production													
Soil Testing													
Weed & nutrient													
management in kharif	1	12	5	17	4	1	5	0	0	0	16	6	22
crop													
Vermi compost	1	31	4	35	5	0	5	0	0	0	36	4	40
Sericulture													

Protected cultivation of													
Vegetable crops													
propagation of norticulture	1	19	3	22	8	1	9	0	0	0	27	4	31
Commercial fruit													
production													
Repair and maintenance													
of farm machinery and	1	17	5	22	2	1	3	0	0	0	19	6	25
implements	-		0		_	-		Ŭ	Ŭ	Ŭ	17	Ũ	20
Solar water irrigation	1	10	0	10	_	0		_			20	0	20
system	l	18	0	18	2	0	2	0	0	0	20	0	20
SWC/ Micro irregation						1	1						
system	2	28	11	39	3	2	5	0	0	0	31	23	54
						2	5						
Nursery Management of													
Horticulture crops													
Lac Bangle Making													
Entrepreneurial activity	2	0	35	35	0	1	1	0	0	0	0	50	50
						5	5						
Training and pruning of													
orchards	1	0	10	10	0	0						20	20
Value addition	l	0	12	12	0	8	8	0	0	0	0	20	20
Production of quality													
animal products													
Sheep and goat rearing													
Quail farming					_			0			4.1	-	
Composit fish culture	2	34	1	35	7	2	9	0	0	0	41	3	44
Piggery													
Rabbit farming													
Poultry production													
Total	15	19	10 4	29	40	45	85	0	0	0	23	14 9	38

C) Extension Personnel (on campus)

	No. of			No.	of P	artic	ipan	ts			Cr	and '	Total
Thematic Area	Course		Othe	r		SC	_		ST		GI	anu	Iotai
	S	Μ	F	Τ	Μ	F	Τ	Μ	F	Τ	Μ	F	Т
Productivity enhancement in													
field crops													
Value addition													
Integrated Pest Management													
Integrated Nutrient													
management													
Household food security by			n	2								2	
kitchen gardening and	1	5	2	2 5	0	5	5	0	0	0	5	2 5	30
nutrition gardening			0	5								5	
Rejuvenation of old orchards													
Protected cultivation													
technology													

Formation and Management of SHGs													
Installation and maintenance	1	1	0	1	1	0	1	0	0	0	1	0	12
SWCE		1		1	_		5				2	0	20
SWCE	1	25	0	25	5	0	3				30	0	30
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													
Entreprenurial activity	1	2	1	2		1		0	0	0	0	2	22
(Herbal gulal making)	L	2	8	0	0	2	2	0	0	0	2	0	22
Low cost and nutrient													
efficient diet designing													
Production and use of organic													
inputs													
Organic farming through		1		1			1	0	0	_	1	0	10
Vermicompost	1	1	0	1	1	0	1	0	0	0	2	0	12
Gender mainstreaming													
through SHGs													
TOTAL	5	54	38	92	7	7	14	0	0	0	61	45	106

D) Farmers and farm women (Off campus)

	No.			No.	of P	artici	pants					and T	Fatal
	of		Othe	r		SC	-		ST	1	Gr		otai
Thematic Area	Co												
	urs	M	F	Т	M	F	Т	Μ	F	Т	Μ	F	Т
	es												
I. Crop Production													
Crop Production	7	11 9	34	153	1 0	0	10	0	0	0	12 9	34	163
Weed Management													
Direct seeded rice (DSR)	2	16	7	23	9	19	28	0	0	0	25	26	51
Resource Conservation Technologies													
Cropping Systems													
CFLD	1	17	5	22	0	0	0	0	0	0	17	5	22
Crop Diversification													
Integrated Farming													

Water management													
Seed production	1	76	13	89	9	3	12	0	0	0	85	16	101
Nursery management													
Integrated Crop													
Management													
Fodder production													
Production of organic		_					10				10		<i>(</i> -
inputs	3	7	46	53	3	9	12	0	0	0	10	55	65
Others, (cultivation of													
crops)													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient										1			
management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume													
and high value crops													
Off-season vegetables													
Nursery raising	2	17	36	53	0	0	0	0	0	0	17	36	53
Export potential vegetables							Ű		Ŭ	Ŭ			
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													
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	1												
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	21		21	0	0	0	0	0	0	21	0	21
Soil and Water													
Conservation													
Integrated Nutrient						_				_		1.0	
Management	3	35	1	36	6	9	15	0	0	0	41	10	51
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													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality													
animal prod													
-													
Ucts													
Others, if any Goat farming													
V. Home Science/Women													
empowerment													
Household food security by													
kitchen gardening and	1	2	10	12	0	2	2	0	0	0	2	12	14
nutrition gardening													
Design and development of													
low/minimum cost diet													
Designing and													
development for high													
nutrient efficiency diet													
Minimization of nutrient													
loss in processing													
Gender mainstreaming													
through SHGs													
Storage loss minimization	2	۵	51	60	1	24	25	0	0	0	10	75	85
techniques	5		51	00		24	25	0		0	10	/5	0.5
Enterprise development	1	0	5	5	0	22	22	0	0	0	0	27	27
Value addition													
Income generation													
activities for empowerment	3	6	45	51	1	18	19	0	0	0	7	63	70
of rural Women													
Location specific drudgery													
reduction technologies													
Rural Crafts													
Capacity building													
Coarse grain/ Health &		0	51	51	6	10	16	0	0	0	6	91	97
Nutrition	4	0	51	51	0	40	40	0	0	0	0	91	91
Women and child care													
Mushroom Production	2	10	49	59	1	23	24	0	0	0	11	72	83
VI. Agril. Engineering													
Installation and													
maintenance of micro													
irrigation systems													
Use of Plastics in farming					_								
practices													
Production of small tools													
and implements													

Repair and maintenance of													
farm machinery and													
implements													
Small scale processing and													
value addition													
Post-Harvest Technology													
Soil & Water Conservation	7	10 8	42	150	1 4	3	17	0	0	0	12 2	45	167
Others, if any(FMP)	9	13 5	31	166	1 3	4	17	0	0	0	14 8	35	183
Krishi Mausam Seva													
Agrometrology													
VII. Plant Protection													
Integrated Pest		14	1	10		0	0			0	16	4	50
Management	2	44	4	48	2	0	0	0	0	0	40	4	50
Integrated Disease	5	42	66	100	2	0	10			0	11	74	110
Management	5	42	00	108	2	0	10	0	0	0	44	/4	110
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 &	1	14	4	10	2	1				0	17	5	\sim
fish disease	1	14	4	10	5	1	0	0	0	0	1/	5	22
Fish feed preparation & its													
application to fish pond,													
like nursery, rearing &													
stocking pond													
Hatchery management and													
culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp													
hatchery													
Pen culture of fish and													
prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value													
addition													
Others, if any													
IX. Production of Inputs at													
site													

Seed Production													
Planting material													
production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures													
production													
Production of fry and													
fingerlings													
Production of Bee-colonies													
and wax sheets													
Small tools and													
implements													
Production of livestock													
feed and 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									<u> </u>				
WTO and IPR issues									<u> </u>				
Others, if any										 			
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming													
Systems									⊢	 			
XII. Others (Pl. Specify)													
TOTAL	58	678	500	1178	8	185	259	0	0	0	758	685	1443

E) RURAL YOUTH (Off Campus)

	No. of			No.	of Pa	rtic	ipar	ts			C	hand	Total
Thematic Area	Course		Othe	er		SC	-		ST	_	G	rand	Total
	S	Μ	F	Т	Μ	F	Τ	Μ	F	Τ	Μ	F	Т
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													
Commercial fruit													
production													
Repair and maintenance													
of farm machinery and													
implements													
Nursery Management of													
Horticulture crops													
Training and pruning of													
orchards													
Value addition													
Production of quality													
animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
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		<u> </u>											
Rural Crafts		 											
Others, if any													
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0

F) Extension Personnel (Off Campus)

Thematic Area	No. of	No. of Participants									Grand Total				
	Course		Othe	r		SC			ST						
	S	Μ	F	Т	Μ	F	Τ	Μ	F	Τ	Μ	F	Т		
Productivity enhancement															
in field crops															
Integrated Pest															
Management															
Integrated Nutrient															
management															
Rejuvenation of old															
orchards															
Protected cultivation															
technology															
Formation and Management															
of SHGs															
Installation and	2	2	2	22	0	0	0	0	0	0	22	0	22		
maintenance of micro		0													
irrigation systems															
Group Dynamics and															
farmers organization															
Information networking															
among farmers															
Capacity building for ICT															
application															
Care and maintenance of															
farm machinery and															
implements															
WTO and IPR issues															
Management in farm															
animals															
Livestock feed and fodder															
production															
Household food security															
Women and Child care															
Low cost and nutrient															
efficient diet designing															
Production and use of															
organic inputs															
Gender mainstreaming															
through SHGs															
Crop intensification															
ICM															
Control and Management of															
Dessert Locust															
Low cost Nutrient rich															
foods															

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SWC													
Value addition	1	1	1	11	1	8	9	0	0	0	2	2	22
			2									0	
TOTAL		2	1									2	
	3	1	4	33	1	8	9	0	0	0	24	0	44

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

Thematic Area	No. of	No. of Participants										Grand Total			
	Cours		Other SC ST												
	es	Μ	F	Т	Μ	F	Т	M	F	Τ	Μ	F	Т		
Cropping Systems	1	16	4	20	7	0	7	0	0	0	23	4	28		
Crop Diversification															
Integrated Farming															
Water management															
Seed production	1	10	0	10	2	0	2	0	0	0	12	0	12		
Nursery management															
Integrated Crop															
Management															
Fodder production															
Organic farming	1	4	25	29	3	5	8	0	0	0	7	3	37		
Production of organic	1	0	22	22	0	8	8	0	0	0	0	3	30		
inputs												0			
Others, (cultivation of	1	23	1	24	16	0	16	0	0	0	39	1	40		
crops)															
Cropping Systems	1	16	4	20	7	0	7	0	0	0	23	4	28		
Crop Diversification															
CFLD	1	17	5	22	0	0	0	0	0	0	17	5	22		
TOTAL												6			
	6	69	56	125	35	13	48	0	0	0	104	9	175		
II. Horticulture															
a) Vegetable Crops															
Integrated nutrient															
management															
Water management															
Enterprise development															
Skill development															
Yield increment															
Production of low volume															
and high value crops															
Off-season vegetables															
Nursery raising	1	29	0	29	0	0	0	0	0	0	0	0	29		
Exotic vegetables like															
Broccoli															
Export potential vegetables															
Grading and standardization															
--------------------------------	---	----	---	----	---	---	---	---	---	---	---	---	----		
Protective cultivation															
(Green Houses, Shade Net															
etc.)															
Others if any (Cultivation															
of Vegetable)															
TOTAL	1	29	0	29	0	0	0	0	0	0	0	0	29		
b) Eruits	1	/				0	0		U	0			2)		
Training and Pruning															
Layout and Management of															
Orchards															
Cultivation of Eruit															
Management of young															
plants/orchards															
Rejuvenation of old															
orchards															
Export potential fruits															
Micro irrigation systems of															
orchards															
Plant propagation															
techniques															
Others, if any(INM)															
TOTAL															
c) Ornamental Plants															
Nursery Management															
Management of potted															
plants															
Export potential of															
ornamental plants															
Propagation techniques of	1	9	0	9	0	0	0	0	0	0	0	9	36		
Ornamental Plants															
Others, if any															
TOTAL	1	9	0	9	0	0	0	0	0	0	0	9	36		
d) Plantation crops															
Production and															
Management technology															
Processing and value															
addition															
Others, if any															
TOTAL			1												
e) Tuber crops		1													
Production and			1				1						1		
Management technology															
Processing and value		1													
addition															
Others, if any															
TOTAL					1										
f) Spices															

Production and													
Management technology													
Processing and value													
Others, if any								┣─					
IOIAL								<u> </u>					
g) Medicinal and Aromatic Plants													
Nursery management													
Production and													
management technology													
Post harvest technology													
and value addition													
Others, if any													
TOTAL													
III. Soil Health and													
Fertility Management													
Soil fertility management													
Soil and Water													
Conservation													
Integrated Nutrient													
Management													
Production and use of													
organic inputs													
Management of													
Problematic soils													
Micro nutrient deficiency													
in crops													
Nutrient Use Efficiency													
Soil and Water Testing	2	57	6	63	11	2	13	0	0	0	68	8	76
Others, if any													
TOTAL	2	57	6	63	11	2	13	0	0	0	68	8	76
IV. Livestock Production													
and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality													
animal products													
Others, if any (Goat													
farming)													
TOTAL													
V. Home Science/Women													
empowerment													

Household food security by kitchen gardening and	5	7	69	76	21	28	49	0	0	0	28	9 7	125
Design and development of													
low/minimum cost diet													
Designing and													
development for high													
nutrient efficiency diet													
Minimization of nutrient	2	26	1	27	2	1	3	0	0	0	28	2	30
loss in processing													
Gender mainstreaming													
through SHGs													
Storage loss minimization	2	12	31	43	9	8	17	0	0	0	21	3	60
techniques												9	
Enterprise development													
Food preservation and	4	15	12	144	4	47	51	0	0	0	0	1	195
Value addition			9									7	
												6	
Income generation	2	1	26	27	0	19	19	0	0	0	1	4	46
activities for empowerment												5	
of rural Women													
Location specific drudgery													
reduction technologies													
Bee-keeping													
Capacity building													
Coarse grain	4	16	44	60	12	28	40	0	0	0	28	7 2	100
Women and child care	3	11	37	48	7	20	27	0	0	0	18	6 8	75
Others, if any Mushroom Production	1	3	22	25	2	9	11	0	0	0	5	3	36
Mushroom Production	3	10	46	56	6	12	18	0	0	0	16	5	74
												8	
TOTAL	23	91	359	450	57	160	217	0	0	0	129	53 0	667
VI. Agril. Engineering												-	
Installation and	1	29	2	31	8	1	9	0	0	0	37	3	40
maintenance of micro													
irrigation systems													
Use of Plastics in farming													
practices													
Production of small tools	1	3	31	34	15	15	30	0	0	0	18	4	64
and implements												6	
Repair and maintenance of													
farm machinery and													
implements													
Small scale processing and													
value addition													
Post-Harvest Technology													
Others if ony (EMD)			1										

	1		1	1	1	1		-		i	1		i
Soil & Water													
Krishi Mausam Seva													
Agrometrology	2	24	18	42	3	0	3	0	0	0	100	2 7	127
Soil & Water Conservation	2	76	30	106	15	23	38	0	0	0	91	5 3	144
TOTAL	6	132	81	213	41	39	80	0	0	0	246	1 2 9	375
VII. Plant Protection													
Integrated Pest	8	106	16	122	39	12	51	0	0	0	145	2	173
Management												8	
Integrated Disease													
Management													
Bio-control of pests and													
diseases													
Production of bio control													
agents and bio pesticides													
Others, if any													
TOTAL	8	106	16	122	39	12	51	0	0	0	145	28	173
VIII. Fisheries		1-							0	0			
Integrated fish farming		17	1	18	3	0	3	0	0	0	20		21
Carp breeding and hatchery													
management													
Carp fry and fingerling													
Community fight contrary 9	1	10	0	10	2	0	2		0		22	0	22
Composite fish culture &		19	0	19	3	0	3	0	0				22
Fish food propagation & 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	2	36	1	37	6	0	6	0	0	0	42	1	43
IX. Production of Inputs at													
site													
Seed Production			1		1	1	1	1					

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													
Nursery management													
Integrated Farming													
Systems													
TOTAL													
XII. Others (Pl. specify)													
TOTAL	99	1075	104	2118	378	452	830	0	0	0	1485	15 53	3170

ii. RURAL YOUTH (On and Off Campus)

	No. of			No	o. of l	Parti	cipant	S				luon d	Tadal
Thematic Area	Course	Course Other SC ST									G	rana	10181
	S	Μ	F	Т	Μ	F	Τ	Μ	F	Τ	Μ	F	Т

Mushroom Production	2	23	11	34	3	12	10	0	0	0	37	23	60
Bee-keeping	1	8	12	20	2	3	2	0	0	0	10	15	25
Integrated farming													
Seed	1	12	5	17	4	1	4	0	0	0	16	6	22
production	1	12		17			'						
Production of													
organic inputs													
Planting													
material													
production													
Soil testing	1	7	8	15	4	2	6	0	0	0	11	10	21
Vermi-culture													
Sericulture													
Protected													
cultivation of													
vegetable crops													
Commercial													
fruit production													
Repair and													
maintenance of													
farm machinery													
and implements													
Nursery	1	19	3	22	8	1	9	0	0	0	27	4	31
Management of													
Horticulture													
crops													
Training and													
pruning of													
orchards		_											
Value addition	1	0	18	18	0	7	7	0	0	0	0	25	25
Production of													
quality animal													
products		_											
Dairying						<u> </u>							
Sheep and goat													
rearing													
Herbal Gulal													
production		_											
Piggery		_											
Rabbit farming													
Poultry													
production	1	-											25
Ornamental		20	2	22	3	0	3	0	0	0	23	2	25
nsneries		_											
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					<u> </u>								
Post-Harvest	2	46	4	46	4	0	4	0	0	0	50	0	50
Technology			1.6	1.6									
Tailoring and	1	0	16	16	0	9	9	0	0	0	0	25	25
Stitching													
Rural Crafts													
Soil Testing	l	1	8	15	1	2	3	0	0	0	8	10	18
Others if any													
application in													
agriculture)													
SWC	1	10	-	17		1					16		
Vermi compost	1	12	5	17	4	1	5	0	0	0	16	6	22
Farm	I	18	0	18	2	0	2	0	0	0	20	0	20
machinery	1	10		1.0			4				10		20
Income	1	10	6	16	2	2	4		0	0	12	8	20
generation		10											
IUIAL	15	18	98	276	37	40	68	0	0	0	230	134	364

iii. Extension Personnel (On and Off Campus)

	No. of			No.	of P	artio	cipar	nts			C	and 7	
Thematic Area	Course	(Othe	r		SC			ST		Gra		lotal
	S	Μ	F	Т	Μ	F	Τ	Μ	F	Τ	Μ	F	Т
Productivity enhancement													
in field crops													
Integrated Pest													
Management													
Integrated Nutrient													
management													
Rejuvenation of old													
orchards													

Protected cultivation technology													
Formation and													
Management of SHGs													
Installation and	2	2	2	2	0	0	0	0	0	0	22	0	22
maintenance of micro	2		2	$\frac{2}{2}$	Ŭ	Ŭ	Ŭ	U				U	
irrigation systems				2									
Group Dynamics and													
farmers organization													
Information networking													
among farmers													
Capacity building for ICI													
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	2	2	2	4	1	5	1	0	0	0	35	2	60
		0	0	0	5		9					5	
Women and Child care													
Low cost and nutrient													
efficient diet designing													
Production and use of	1	3	0	3	1	0	1	0	0	0	4	0	4
organic inputs				_				-				-	
Gender mainstreaming													
through SHGs													
Crop intensification													
ICM													
Control and Management of													
Dessert Locust													
Low cost Nutrient rich													
foods													
SWC													
Value addition	1	1	1	1	1	8	9	0	0	0	2	2	22
			2	1								0	
TOTAL	6	44	34	76	17	13	29	0	0	0	63	45	108

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

							No. of Participants	š
Disciplin	Client	Title of Training	No	Dur	Vonuo	Other	SC/ST	Total
-			-110	ation	On/Off		-	

						М	F	Т	Μ	F	Т	Μ	F	Т
Fisheries Science	1	Composite fish culture	1	1	On	17	1	18	3	0	3	20	1	21
	2	Composite fish culture	1	1	Off	14	4	18	3	1	0	17	5	22
Agricult ural Engineer ing	3	Important of drip irrigation system for agriculture crops	1	1	On	6	1 2	18	1	0	1	7	12	19
	4	Drip irrigation system for vegetable crops	1	1	Off	8	0	8	1	0	1	9	0	9
	5	Importance of micro-irrigation for different soil and crop.	1	1	Off	14	9	23	3	0	3	17	9	26
	6	Irrigation water management in Rabi crop	1	1	Off	13	0	13	2	0	2	15	0	15
	7	Importance and effect of Grubber in mustard /vegetable	1	1	Off	21	0	21	5	0	5	26	0	26
	8	Rainwater harvesting	1	1	On	13	1	14	1	0	1	14	1	15
	9	Use of solar energy in agricultural & it's care and maintenance	1	1	Off	15	3	18	3	1	4	18	4	22
	10	Importance of organic and inorganic mulching material and CRA	1	1	Off	45	0	45	5	0	5	50	0	50
	11	Line sowing of wheat with Zero till seed drill cum fertilizer machine & seed and Happy seeder	1	1	Off	45	7	52	1	2	3	46	9	55
	12	Irrigation in wheat crop	1	1	Off	7	1	8	2	0	2	9	1	10
	13	Zero tillage in Rabi crop	1	1	Off	11	2	13	2	0	2	13	2	15
	14	Wheat and Rabi crop in weed control by grabber	1	1	Off	11	2	13	2	0	2	13	2	15
	15	Line sowing of wheat with Zero till seed drill cum fertilizer machine & seed and Happy seeder	1	1	Off	13	7	20	3	1	4	16	8	24
	16	Line sowing of wheat with Zero till seed drill cum fertilizer machine & seed and Happy seeder	1	1	Off	9	1	10	0	0	0	9	1	10

	17	Drip irrigation system for vegetable crops	1	1	Off	12	5	17	0	0	0	12	5	17
	18	Rainwater harvesting	1	1	On	18	7	25	2	2	4	20	9	29
	19	Line sowing of wheat with Zero till seed drill cum fertilizer machine & seed and Happy seeder	1	1	On	0	0	0	24	24	4 8	24	24	48
	20	Importance of micro-irrigation for different soil and crop.	1	1	Off	9	2 7	36	1	3	4	10	30	40
	21	Solar water irrigation system	1	1	Off	13	0	13	1	0	1	14	0	14
	22	Zero tillage in Rabi crop	1	1	Off	12	0	12	0	0	0	12	0	12
	23	Use of solar energy in agricultural & it's care and maintenance	1	1	Off	6	9	15	1	0	1	7	9	16
Home	24	Mushroom production	1	1	Off	0	2 1	21	0	7	7	0	28	28
e	25	Mushroom production	1	1	On	0	1 0	10	0	0	0	0	10	10
	26	Nutri garden	1	1	Off	2	$1 \\ 0$	12	0	2	2	2	12	14
	27	Nutri garden	1	1	Off	2	1	13	0	2	2	2	13	15
	28	Mushroom production and value addition	1	1	Off	10	2 8	38	1	16	1 7	11	44	55
	29	Hermatic bag and its use.	1	1	Off	7	3 0	37	4	19	2 3	11	49	60
	30	Awarwness cum training programme (Course Grain)	1	1	ON	1	2 2	23	0	7	7	1	29	30
	31	Mushroom production	1	1	ON	10	1 5	25	6	5	1	16	20	36
	32	Health & nutrition awareness	1	1	Off	0	1 7	17	0	8	8	0	25	25
	33	Value addition of fabric & waste management	1	1	Off	6	9	15	1	9	1 0	7	18	25
	34	Post harvest	1	1	Off	0	8	8	0	12	1 2	0	20	20
	35	Value addition	1	1	Off	0	1 6	16	0	4	4	0	20	20
	36	Waste bag method of kitchen gardening	1	1	Off	0	5	5	0	22	2 2	0	27	27
	37	Post harvest	1	1	Off	9	2 7	36	1	3	4	10	30	40
	38	Poshan maah	1	1	Off	0	1 8	18	0	7	7	0	25	25

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	9 5 3 9 2 2	0 0 0 0 6	25 25 16 25 16	25 25 16 25
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42Post harvest11Off01160943Health & nutrition awareness11Off000616	9 2 2	0	25	25
43Health & nutrition awareness11Off00616	22	6	16	
awareness	2			22
44 INM 1 1 0 14 3 9	12	17	9	26
Crop 45 INM 1 1 Off 8 1 9 1 0 Product	1	9	1	10
ion 46 INM 1 1 0n 13 0 13 2 0	2	15	0	15
47 Organic farming 1 1 Off 6 0 6 3 0	3	9	0	9
48bio fortifide wheat11On7618993seed3333333	12	85	16	101
49 Organic farming 1 1 On 0 2 21 0 9	9	0	30	30
50 DSR 1 1 Off 13 2 15 9 4	13	22	6	28
51 DSR 1 1 0ff 3 5 8 0 15	15	3	20	23
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53 Crop Production 1 1 Off 12 5 17 0 0	0	12	5	17
54 Crop Production 1 1 off 20 0 20 4 0	4	24	0	24
55 Crop Production 1 1 Off 24 0 24 3 0	3	27	0	27
56 Crop Production 1 1 Off 20 0 20 0 0	0	20	0	20
57 Crop Production 1 1 Off 16 4 20 0 0	0	16	4	20
58 Crop Production 1 1 Off 17 0 17 3 0	3	20	0	20
59 Organic farming 1 1 Off 1 2 26 0 0	0	1	25	26
60Irrigation & fertilizer management11On2102100	0	21	0	21
61 CFLD 1 1 Off 17 5 22 0 0	0	17	5	22
Horticu Iture62Horticulture Importance of gardening in rural development11Off2902900	0	29	0	29
63Horticulture Establishment of high density orchard and management of mango0 ff0 ff1110 ff	0	8	9	17
64Horticulture Advance production techniques of Kharif vegetables110ff 992 73600	0	9	27	36
Operation 65 IPM in Kharif 1 1 Off 8 9 17 0 0 Plant Paddy 1 1 Off 8 9 17 0 0	0	8	9	17
Protecti on (Plant PatholoManagement of mango fruit fly.Off9236001111111111111	0	9	27	36

-	-													
gy)	68	Integrated Pest Management in paddy.	1	1	Off	25	0	25	0	0	0	25	0	25
	69	IPM in Kharif maize.	1	1	Off	11	6	17	2	1	3	13	7	20
	70	Integrated pest and disease management in cabbage and cauliflower.	1	1	Off	12	8	20	0	0	0	12	8	20
	71	Management of early and late blight of potato.	1	1	Off	2	1 6	18	0	7	7	2	23	25
	72	Integrated pest and disease management in cole crop	1	1	Off	19	4	23	2	0	0	21	4	25
Rural yout	hs	-											-	
Fisherie s	73	Composite fish culture	1	3	On	18	1	1 9	3	0	3	2 1	1	22
Science	74	Composite fish culture	1	3	On	16	0	1 6	4	2	6	2 0	2	22
Agricul tural Enginee ring	75	Care and maintenance of micro-irrigation system	1	3	Off	12	2	1 4	0	10	10	1 2	12	24
	76	Installational maintenance of micro irrigation unit	1	3	On	16	9	2 5	3	2	5	1 9	11	30
	77	Solar water irrigation system	1	3	Off	18	0	1 8	2	0	2	2 0	0	20
	78	Maintenance of Agriculture machineries	1	3	On	17	5	2 2	2	1	3	1 9	6	25
Home Science	79	Mushroom production	1	3	On	13	8	2 1	7	2	9	2 0	10	30
	80	Cutting, sewing and value addition of fabric	1	5	On	0	12	1 2	0	8	8	0	20	20
	81	Raksha bandhan special	1	3	On	0	16	1 6	0	9	9	0	25	25
	82	Deepawali & chhath puja special	1	3	On	0	19	1 9	0	6	6	0	25	25
Crop product ion	83	Vermicompost production technology	1	3	On	18	0	1 8	2	0	2	2 0	0	20
	84	Weed & nutrient management in kharif crop	1	3	On	12	5	1 7	4	1	5	1 6	6	22
	85	Vermicompost production technology	1	3	On	13	4	1 7	3	0	3	1 6	4	20
	86	Production of organic fertilizer	1	3	On	12	8	2 0	0	0	0	1 2	8	20
Horticu Iture	87	Propagation of horticulture crop	1	3	On	19	3	2 2	8	1	9	2 7	4	31

Plant Protecti on	88	Bee Keeping and their management	1	3	On	8	12	2 0	2	3	5	1 0	15	25
Extension	function	aries												
Agricul tural Enginee ring	89	Care & Maintenance of farm equipment and tools	1	1	Off	11	0	11	1	0	1	1 2	0	12
	90	Installation & Maintenance of Drip Irrigation	1	1	Off	25	0	25	5	0	5	3 0	0	30
Home Science	91	Nutrigarden (waste bag method of kitchen gardening)	1	1	On	5	20	25	0	5	5	5	25	30
	92	Entreprenurial activity (Herbal gulal making)	1	1	off	2	18	20	0	2	2	2	20	22
		Total				166	286	446	0	0	0	1 2 1 3	1033	224 6

Photograph of Training programme







H) Vocational training programmers for Rural Youth

Details of training programmes for Rural Youth

Crop / Enterp	Identif ied	Traini ng	Durat ion	No. Part	icipants	of	Self-en trainin	nployed g	after	Numb er of
rise	Thrust Area	title*	(days)	Ma le	Fem ale	Tot al	Type of units	Num ber of units	Numb er of person s emplo yed	person s emplo yed else where
INM for Fertilize r Dealers	Fertiliz er Dealers	INM for Fertiliz er Dealer s	15	33	02	35	Fertili zer shop	35	35	-
INM for Fertilize r Dealers	Fertiliz er Dealers	INM for Fertiliz er Dealer s	15	32	03	35	Fertili zer shop	35	35	_

*training title should specify the major technology /skill transferred

				Dun	Client				N	No. of Pa	rticipa	nts	-			Spons
SI.	Title	Themati c area	Month	atio n (day	PF/RY /EF	No. of cour ses		Others	5	s	C/ ST			Total		oring Agenc y
				s)			М	F	Т	М	F	Т	М	F	Т	
1	Bee Keeping	Bee Keeping	February	7	RY	1	13	7	20	1	4	5	14	11	25	NBB, New Delhi
2	Backyard Poutry farming	Animal science	February	3	RY	1	26	5	31	8	1	9	34	6	40	MF, AH& D, GoI
3	Cow Farming	Animal science	February	3	RY	1	29	8	37	1	2	3	30	10	40	MF, AH& D, GoI
4	Fooder production and Vermi compost	Animal science	March	3	PF & RY	1	28	4	32	6	2	8	34	6	40	MF, AH& D, GoI
5	Bee Keeping	Bee Keeping	March	7	RY	1	17	3	20	4	1	5	21	4	25	NBB, New Delhi
6	Bee Keeping	Bee Keeping		7	RY	1	22	0	22	3	0	3	25	0	25	NBB, New Delhi
7	Goat farming	Animal science	Septemb er	3	PF & RY	1	25	6	31	6	3	9	31	9	40	MF, AH& D, GoI
8	Natural Farming	ICAR	Decembe r	2	PF & RY	1	18	9	27	10	3	13	28	12	40	ICAR, New Delhi
		Tota	1			8	17 8	42	220	39	16	55	21 7	58	27 5	

I) Sponsored Training Programmes

Photographs of Sponsored Training Programmes



3.4.	A.	Extension	Activities	(including	activities	of FLD	programmes)
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Nature of	No.	Farme	rs			Exten	sion Offi	cials	Total		
Extension Activity	of event s	М	F	Т	SC/ ST (% of total)	Mal e	Femal e	Total	Male	Femal e	Total
Field Day	8	380	53	433	59	8	2	10	388	55	433
Kisan Mela	3	561	144	705	89	17	3	20	578	147	725
Kisan Ghosthi	18	680	238	918	186	46	3	49	726	241	967
Exhibition	3	35	8	43	4	4	2	6	39	10	49
Film Show	5	556	241	797	75	7	5	12	563	246	809
Method Demonstrations	8	506	74	605	20	14	11	25	520	85	605
Farmers Seminar	4	123	0	123	12	5	0	5	127	0	127
Group meetings	10	275	86	361	36	25	18	43	300	104	404
Lectures delivered as resource persons	2	48	98	146	36	2	1	3	50	99	149

Advisory Services	630	350	150	500	120	85	45	130	430	195	630
Scientific visit to farmers field	20	200	67	267	79	2	2	4	202	81	346
Farmers visit to KVK	608	485	120	505	135	80	23	103	565	143	608
Diagnostic visits	17	7	4	11	2	5	1	3	12	5	17
Exposure visits	4	131	39	170	7	2	1	3	133	40	173
Special Programmes (specify)											
Swatchta Hi Sewa	5	251	89	340	82	0	0	0	251	89	340
Any Other, Agro advisory, Mobile Service	9	244	49	249	41	0	0	0	244	49	249 4
Total	1227	557	072	644	011	259	04	220	577	1050	678

A. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	37
TV talks	2
Popular articles	4
Extension Literature	3
Other, if any(Technical report)	

B. Celebration of important days

			Far	mers		Ex C	xtens Offici	sion ials	,	Fotal	
Celebration of Important Days	No. of activiti es	М	F	Total	SC/ ST (% of total)	Μ	F	Tot al	М	F	To tal
ICAR foundation day	1	11	102	113	7	4	2	6	15	10 4	11 9
International women day	1	0	30	30	7	2	1	3	2	31	33
Swachhata Campaign	17	120	50	50	4	1	1	2	121	52	22 2
Mahila Kisan Diwas	1	0	30	30	4	2	1	3	2	31	33
World Food Day -(MIS)											
Organic Farming	2	21	25	46	0	1	1	2	22	26	48
World soil day,	1	29	41	70	7	5	3	8	34	44	78

International yoga day	1	0	0	0	2	1 0	0 2	12	10	2	12
Total	24	181	278	339	31	25	11	36	206	290	545

Other programme

	No. of	No. of Participants						Crand Total					
Thematic Area	Course		Other SC ST		Grand Total								
	S	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Natural Farming		50	74	605	14	11	25	0	0	0	520	85	60
		6											5

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

SI	Data of	Nama of	Interaction		Part	icipants	pants		
	event	Event/Programme	of Hon'ble PM/AM	Farmer s	Staffs	VIP/Other s	Total		
1	31.05.2022	Jan kaliankari yojana PM K.S.Y	PM	40	7	JDA	47		
2	17.10.2022	PM Kisan Sammelan (Live Telicast)	PM	248	7	MLA	207		







3.5a. Production and supply of Technological products

Village seed

Сгор	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farm to whom seed provided		rmers ed	
				-	S C	S T	Ot he r	Tota l
Total								

KVK farm

Сгор	Variety	Quantity of seed	Value (Rs)	Number of far to whom seed pro		of farme ed prov	ners vided	
		(q)		SC	ST	Othe r	Total	
Paddy	Rajshree	70.0	135800	-	_	-		
Wheat	HD 2967	40.50	241000	-	-	-		
Rai	R. Suflam	2.70	40400	-	-	-		
Green gram	IPM-2-3	3.07	50925	-	-	-		
Finger Millet	R. Madua 8	3.30	15000					
Grand Total		119.57	483125					

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	Tota l
Vegetable							
seedlings							
Cauliflower	Fujtop F ₁ Hybrid	1300	1300.00			4	4
Cabbage	F ₁ Hybrid	690	690.00			4	4
Cucurbites							
Beans	Dolichos	65	325.00	1		2	3
	besn local						
Tomato	Hybride	2000	2000.00	1		1	2
Brinjal	Hyb 704	2682	2682.00	4		12	16
Chilli	Bullet	1115	1115.00	1		8	9
Onion	NHRDF	100Kg	5000.00	3		6	9
Bottle Gourd	Sharola	185	925.00	3		24	27
Bitter Gourd	Pollee	270	1350.00	2		13	15
Fruits							
Mango	Amrapali	2	3000			4	4
Guava							
Lime							
Papaya	Red lady	408	12000				
Banana							
Capsicum	F ₁ Hybrid	50	500.00	1		6	7
Others (Padddy seeding)	Rajshree,R Neelan,Sw eta	930dhur	11160	5		12	17
Ornamental							
plants							
Medicinal and							
Aromatic							
Plantation							
Spices							
Turmeric							
Tuber							
Elephant yams							
Fodder crop							
saplings							
Forest Species							
Others,	Pusa	2270.00	2270.00	1		1	2
pl.specify	Naragi						
(Marigold)	genda				<u> </u>		
Total	-			22		93	115

Production of Bio-Products

Name of product	Quantity	Value	No. of Farmers benefitted
	Kg	(Rs.)	

		SC	ST	Other	Total
Bio-fertilizers					
Bio-pesticide					
Bio-fungicide					
Bio-agents					
Others, please specify.					
Total					

Production of livestock materials

Particulars of Live	Name of	Number	Value (Rs.)	No. of Farmers		ers	
stock	the breed				be	nefitted	
				S	S	Othe	Tota
				C	Т	r	1
Dairy animals							
Cows							
Buffaloes							
Calves							
Others (Pl. specify)							
Small ruminants							
Sheep							
Goat							
Other, please specify							
Poultry							
Broilers							
Layers							
Duals (broiler and layer)							
Japanese Quail							
Turkey							
Emu							
Ducks							
Others (Pl. specify)							
Piggery							
Piglet							
Hog							
Others (Pl. specify)							
Fisheries							
Indian carp							
Exotic carp							
Mixed carp							
Fish fingerlings							
Spawn							
Others (Pl. specify)							
Grand Total							

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

i) Name of Seed Hub Centre:

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

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)					
			Target	Area	Production	Category of		
				sown		Seed (F/S, C/S)		
				(ha)				

iii) Financial Progress

Fund received	Expenditure (Rs. In lakhs)		Unspent	Remarks
(2021-2022 & 2022-2023)	Infrastructur	Revolving	balance	
	e	fund	(Rs. In lakhs)	

iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

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

Item	Title	Author's name	Number	Circulation
Research	Effect of bio-fertilizer on	Kamlesh Kumar Singh,	1	
paper	yield and economics of	SK Gupta, Sudeshna		
	summer greengram (Vigna	Das, Rajeev Kumar		
	radiate L.)	Srivastava and Arvind		
		Kumar singh		
Research	Comparative study of	Kumari, S., Adarsh, A.,	1	-
paper	different improved low cost	Kumari, A., and		
	storage structure of onion	Choudhary, H.		
Abstract				
	Impact of climate smart	Tarun kumar, Santosh	1	
	agriculture practice on	kumar gupta, Ratnesh		
	terminal heat stress of	kumar jha and		
	wheat yield in north bihar	Madhusudan kundu		
	The effect of conservation	Tarun kumar, Santosh	1	
	tillage and additional	kumar gupta,		
	irrigation on terminal heat	Madhusudan kundu and		
	stress, increase wheat	Kajol kumari		
	yield, sustains productivity			

	and economic profitability in North bihar			
	Mithila painting participants from rural areas get social empowerment	Savita kumari, Satya prakash and Sradha kumara	1	
Seminar/c onference/ symposia papers				
Internation al Conferenc e	Mithila painting participants from rural areas get social empowerment	Savita kumari	1	
Webinar paper present & attended				
Internation al webinar	Study on entrepreneurial orientation among women artist of Mithila painting	Savita kumari	1	
	Effect of phosphorus, Sulphur and bio fertilizers on productivity of chickpea.	Rajneesh Singh		
Books				
Book	Treatise on Land water Management engineering	Jatoth Veeranna, Tarun Kumar, Pawan Jeet and Nagendram Veerapaga	1	
Bulletins				
News letter				
Popular Articles	Power tiler Krishi karyo ko sulabh banana adhunik krishi machine	Anshu gangwar, pushpendra, Tarun kumar, Nidhi kumari, Chelpuri ramu	1	
	August k mukhya krishi karya	Rajeev kumar singh, kapila sekhawat, Praveen kumar upadhaye, SS Rathaod and Rajneesh singh	1	
Book Chapter	Economic Empowerment through women friendly Farm implements	Nidhi kumara, Prabhat kumar singh, Tarun kumar and Moti Lal Meena	1	
Extension Pamphlets / literature				

Technical reports				
	Annual report, 2021-22 DAMU Project	Tarun Kumar	KVK Saraiya, Muzaffarpur	1
	Annual Report 2021-22	Santosh Kumar, Pankaj kumar, Tarun kumar, Savita Kumari, Rajneesh singh & Sneha shikha	KVK Saraiya, Muzaffarpur	1
	6 th & 7 th Extension Council Report	Santosh Kumar, Pankaj kumar, Tarun kumar, Savita Kumari, Rajneesh singh & Sneha shikha	KVK Saraiya, Muzaffarpur	2
	CSISA Report 2021-22	S K Gupta & Tarun Kumar	KVK Saraiya, Muzaffarpur	1
	CFLD Report 2021-22	Santosh Kumar Gupta & Rajneesh Singh	KVK Saraiya, Muzaffarpur	1
	Innovative Farmers Award 2022	Santosh Kumar, Pankaj kumar, Tarun kumar, Savita Kumari, Rajneesh singh & Sneha shikha	KVK Saraiya, Muzaffarpur	4
	Best KVK award	Santosh Kumar, Pankaj kumar, Tarun kumar, Savita Kumari, Rajneesh singh & Sneha shikha	KVK Saraiya, Muzaffarpur	1
	CRA report- 2021-22	S K Gupta, Tarun Kumar& Rajneesh Singh		
Electronic Publicatio n (CD/DVD etc)				
ΤΟΤΑΙ				

N.B.: Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(B) Details of HRD programmes undergone by KVK personnel:

Sl. No	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Adding value to primary and secondary produce (By products) building agriculture entreprises in rural india via secondary agriculture.	Winter school	Savita kumari, SMS (Home Science) KVK, Saraiya	10.11.2022 to 30.11.2022 (21 days)	RPCAU, Pusa

Name of farmer	Abhishek Ranjan
Address	Vill-Pokhraira, P.O-Giddha, P.S-Saraiya, Dist-Muzaffarpur,Bihar-843106
Contact details (Phone, mobile, email Id)	8210899601/8987096780
Landholding (in ha.)	3 Acre
Name and description of the farm/ enterprise	Production of Rice, Wheat, Mango, Litchi along with bee keeping, dairy, poultry and fish farming
Economic impact	 He got training on bee keeping, goat farming, fish and prawn culture, fish farming, solar power irrigation system, entresurship development programme and webinar on generation from flower's waste from Krishi Vigyan Kendra Saraiya and other institute. His hardwork and dedication helped him to establish bee keeping unit along with dairy, poultry and fish farming unit with help and support from him family. He developed his farm with new improved technologies. He has a farm pond, bee keeping unit with 400 boxes, dairy unit. ACHIVEMENTS: Production of honey and its by products. Working as a master trainer in bee keeping. Production of cereals and fruit crops. The farmer used to get annual income of Rs. 5.79 Lakh from Wheat, Paddy, mango, litchi, milk, and fish production etc. He faced problems during initial phases of bee keeping but later after getting training he get acquinted with improved technology and now he is getting annual income of Rs 507500.00 per year from 400 boxes.
Social impact	Many farmers and youth visit him farm regularly to take a glimpse of his success and many have followed his footsteps. He became a role model for farmers within Muzaffarpur. He became a successful well settled bee keeping farmer and inspiring many other farmers in the village for bee keeping.
Environmental impact	He is protecting environment indirectly as bee play excellent role in pollination.
Horizontal/ Vertical spread	Today he became a successful well-settled bee farmer and inspired many other farmers in the village for bee keeping. By establishing a demonstration unit at his farm, many farmers inspired by him.

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

Photograph		
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Name of farmer	Rakesh Kumar
Address	Dwarikanathpur, Saraiya, Muzaffarpur (Bihar) PIN : 843126
Contact details (Phone, mobile, email Id)	9431441605
Landholding (in ha.)	4.5 Acre
Name and description of the farm/ enterprise	Cereals, horticultural crops, fishery, mushroom Cultivation, Multitier Vegetable Cropping and Capsicum or Seedless cucumber cultivation in polyhouse are major source of income.
Economic impact	 He got training on mushroom cultivation, goat farming, poultry farming, Natural farming, Integrated Nutrient Management, fish farming, from flower's waste from Krishi Vigyan Kendra Saraiya and other institute. His hardwork and dedication helped him to established poultry unit along with dairy, fish farming and goatry farming unit with help and support from him family. He developed his farm with new improved technologies such as intercropping, zero tillage, nutrient management etc. ACHIVEMENTS: Production of seedless cucumber and capcicum in polyhouse. Development of rain water harvesting structure Development of IFS model. Use of new improve technologies such as rice and wheat seeder, laser land leveller, potato planter. Jhatka Machine for protecting field from Neelgai The farmer used to get annual income of Rs. 7.00 Lakh from Wheat, Paddy, pigeon pea, potato, mustard, capsicum, seedless cucumber, mushroom, duckery, poultry and fish production. He faced problems like high yielding varieties, soil alkalinity, flood and drought etc. but after adopting improved new technology and getting training he is now a successful farmer.
Social impact	He motivates other farmers to adopt different interventions and technology, which helps in increment of their income. After attaining success in integrated farming system, Protected cultivation and mushroom cultivation local farmers have developed their keen interest in this enterprise. They are visiting regularly to this demonstration farm seeking queries, while farmers are also trained in their farm regarding recent and improved technologies of farming.

	-		
Environmental impact	He protected the environment th primarily used to extend the grow off-season yield by controlling the lig	rough polyhouses farming. Polyhouses ving period of crops or to increase the ght, temperature, humidity, etc.	
Horizontal/ Vertical spread	Today he became a successful well-settled poly house farmer and inspired many other farmers in the village for vegetable cultivation. By establishing a demonstration unit at his farm, many farmers inspired by him.		
Photograph			

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

Sl. No	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology
•			
1.	Strawberry farming	Sunil Kumar Jha, Ghosaut, Meenapur	Growing Strawberry in tropical region
2.	Use of herbs in Gulal	Shrikant Kushwaha, Govindpur	The herbs as tulsi, Alovera used in Gulal for colour as well as for benefit of skin
3.	Different type of honey production	Abhishek Ranjan	Production of litchi, karanj, ban tulshi and eucalyptus honey annually etc.
3.	Roof top rain water harvesting Structure	Rajesh Kumar ranjan, Avinash Kumar, Shrikant Kushwaha	This technology raise the ground water level

4.	Chicken & Egg pickle	Durgesh kumar	The self life of eggs & chiken is very short due to which rancidity starts coming in them quickly, that is why they are being preserved by making pickles.
5.	Fish Farming (Stocking of advanced yearling)	Sri Binod Kumar	Stocking of one year old fingerling i.e., yearling for minimizing the culture period.

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

Sl.	Crop /	ITK Practiced	Purpose of ITK
No.	Enterprise		
1.	Mushroom	Steam sterilization of Straw by	To save water and time.
		using pressure cooker and drum	
2.	Vegetable	Intercropping of cucurbits with	It will save the time and space as well as
		cauliflower through mulching weed population. Also increases the inco	
			by taking off season vegetable.
3.	Natural dye	Natural dye on fabric	Wearing clothes dyed with natural colours
			reduces the risk of skin diseases. It can be
			done for very low cost.
4.	Fish	Application of turmeric and	To control EUS disease in fishes.
	Farming	neem paste	

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1	Organic farming of vegetables	40 ha	Lady finger-123 q/ha Amaranthus-1 24 q/ha Spinach-76 q/ha Bitter gourd-109q/ha Potato – 210 Q/ha Oyster Mushroom – 1 kg per kg straw used Cauliflower- 221 q/ha Carrot-114 q/ha	78	yes

Tomato-326 q/ha	
--------------------	--

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

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed	
1.	PRA Survey	Geographical information of village and Natural resource.	

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

Sl. No	Name of the Equipment	Qty.
1.	PH meter	1
2.	EC	1
3.	Flame photometer (nonfunctional)	1
4.	Spectrophotometer	1
5.	Shaker	1
6.	Water distillation unit	1
7.	Weighing balance	1
8.	Physical balance	1
9.	Soil testing kit	2
10.	Water testing kit	1
11.	Hotplate shaker	2
12.	Kjheldahl unit	1
13.	Hot air oven (non-functional)	1
14.	Digital PH meter	1
15.	Soil testing van	1

3.11. b. Details of samples analyzed so far:

Number of soil samples analyzed				
Through mini soil testing kit/labs	Through soil testing laboratory	Total		
-	554	554		

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

SI.	Analysis	No. of Samples analyzed	No. of Villages	No. of Farmers	Amount realized (Rs.)
1.	Soil	554	27	554	36000.00
2.	Water				
3.	Plant				
4.	Fertilizers				
5.	Manures				
6.	Food				
7.	Others (if any)				

3.11.d. Details on World Soil Day

Sl. No.	Activity	No. of Participant s	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1.	Kisan ghosthi	70	6	Ranjan kumar Nayak (DGM SBI, Patna), Abhigayani Pangdehar (DGM SBI, Muzaffarpur), Prasant Kumar Jha (ZBM, Muzaffarpur)	25	70

3.12 Activities of Rain Water Harvesting structure and micro irrigation system

No of training programme	No. of demonstrations	No. of plant material produced	Visit by the farmers (No.)	Visit by the officials (No.)
03	-	150	225	04

3.13. Technology week celebration

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

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

a)

SI No.	No of student trained	Collage/University	No of days
			stayeu
1	22	RNTU & ITM, Bhopal	90 days
2	04	Himgiri university, Uttarakhand	90 days
3	13	TCA, Dholi, RPCAU, Pusa	56 days
Total	39		

b) Subdivisional Ariculture Officer training:

Particular	Dated	No of days stayed
Subdivisional Ariculture Officer, Muzaffarpur (East & West)	07/07/2022	1 days

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

Date	Name of the person	Purpose of visit
26/042022	Padamshree, Rajkumari Devi	Kisan Mela (Kisan Bhagidari
		Prathmikta Hamari)

26/04/2022	MLA, Paroo	Chief Guest during Kisan Mela (Kisan Bhagidari Prathmikta
		Hamari)
26/04/2022	Dr. Man Singh, Director, DRDO	Kisan Mela (Kisan Bhagidari Prathmikta Hamari)
06/07/2022	Dr. Krishna Kumar, Hon'ble Vice Chancellor, RPCAU, Pusa	Monitoring of KVK Activity
25/08/2022	Mr. Ranjan Kumar Nayak, DGM SBI, Muzaffarpur	Kisan Gosthi cum Awareness Programme

4. IMPACT

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

Name of specific	No. of		Change in income (Rs.)	
technology/skill transferred	participants	% of adoption	Before (Bs /Unit)	After (Rs/Unit)
Vermicompost production	200	20%	3000.00	4000.00
Mushroom cultivation	200	10%	10000.00	80000.00
Value addition	227	6%	2500.00	2700.00
Goatary	65	15%	25000.00	35000.00

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) Give information in the same format as in case studies

Horizontal spread of technologies		
Technology	Horizontal spread	
Micro Irrigation	With the consistent training to farmers and subsidy given by Bihar government the farmers of muzafffarpur district largely adopting micro irrigation system. More than 100 drip kit has been installed by different farmers with area covering more than 70 ha.	
Agro-met advisory	The local agro-met advisory is given vide whats group and farmers are largely adopting for different agricultural activity. More than 1800 farmers are directly connecting with the this advisory service.	
Zero tillage in wheat	The technique was popularized among farmers by demonstration under CRA programme, CSISA project and several other activities. It has large impact on farmers owing to its increase in yield upto 12-17% also the cost reduction of cultivation up to Rs 4200.00/ha	
Mushroom cultivation	All three types of mushroom cultivation is adopted by the farmers of this district. The number of women farmers in this enterprise is increasing and about twenty five women are cultivating Button mushroom, oyster mushroom and dudhiya mushroom.	
Direct Seeded Rice	The DSR technology demonstration under CRA programme and CSISA project of KVK Saraiya leads to increase in adoption of this technology among farmers of Muzaffarpur district. During this financial year 890 acre of land covered by DSR through proper monitoring and guidelines of KVK Saraiya Muzaffarpur in different block. Yield increased upto 12-22% and also decreases 30 to 32 labours per ha of land. Also reduces the cost of cultivation Rs 4000.00 per ha	
Vermi composting	With intiative taken under PKVY project by KVK and other programme of government, the farmers are coming forward to adopt the organic farming. More than	

	200 farmers and farm women adopted this technology. Among them 20 has developed large scale production unit having capacity 50 to 55 tons annually and supply to the agriculture department and other agencies.
Lac bangle making	During 2016 to 2021 ten skill oriented training programme on lac bangle making was organized for rural youth in which 140 participants were benefitted and 07 rural youth initiate to making lac bangle at commercial level. They are getting Rs. 12000.00 per month in addition to doing household work.
Herbal Gulal	The technique was popularized among farmers through training and a total of 20 farm women adopted this technology.
Coarse grain	Among farmers through training and about 30 nos. of farm women adopted this technology and selling multi grain laddu in local market.

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

SI. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms
1)	Vermicomposting	Improvement in soil health and decrease the use of inorganic fertilizer. Also for quality production.	38%
2)	Promotion of Rice variety Rajendra Bhagawati	For short duration and scented variety farmers adopt this variety in climatic change scenario.	35%
3)	Use of bio-fertilizer	PSB, <i>Azotobacter</i> , <i>Azospirillum</i> cereals and oilseed and <i>Rzhizobium</i> in Pulse.	22%
4)	Seed production of cereals	For income generation and increase seed replacement rate	37%
5)	Line sowing of green gram with Zero till seed drill cum fertilizer machine	Increase the production and minimize the insect pest and disease incidence	7%
6)	Seed production of pulse and oilseed	For income generation and increase seed replacement rate	49%
7)	Sowing of wheat 1 to 15 November.	Yield increased up to 22 to 27 %	40%
8)	Fertilizer application as soil test based	Minimize the cost of fertilizer and improve the soil health.	20%
9)	Protective cultivation	Low volume high value production.	7%
10)	IFS	Low volume high value multidisciplinary crop production.	2%
11)	Promotion of flower cultivation	Marigold, tube rose, gladiolus etc	5%
12)	Zero tillage wheat	Through this technology cost of cultivation reduces and production increases.	70%
13)	Micro irrigation and sprinkler system	Cover more area for irrigation with less amount of water. Minimize the cost, Water level of soil maintained, More production.	8 %
14)	Mushroom cultivation	Income generation in rural youth/ women	12%

Thematic area	Value addiition
Name of the Innovation	Mushroom bhujiya
Details of Innovator	Chunnu devi
Background of innovation	Mushroom production
Technology details	Mushroom powder is processed to made bhujia.
Practical utility of innovation	Profitability enhancement and nutritional benefit

4.4. Details of innovations recorded by the KVK

Thematic area	Beekeeping
Name of the Innovation	Honey Production round the year Eucalyptus plants
Details of Innovator	Abhishek Ranjan
Back ground of innovation	Value addition to traditional honey
Technology details	Honey Production from Eucalyptus
Practical utility of innovation	Increases market price of honey ultimately benefitting
	farmers

4.5. Details of entrepreneurship development

Entrepreneurship development		
Name of the enterprise	Mushroom production.	
Name & complete address of the entrepreneur	Mrs Chunni Devi, Village : Bayadih, Saraiya, Muzaffarpur	
Role of KVK with quantitative data support	KVK supported Mrs Chunni Devi in providing different training programme related to mushroom production, oyster/Button mushroom production, Value added product of mushroom. During year 2017 two training of five days duration related to mushroom production and value addition was provided to her. In 2019 KVK celebrated Mushroom Day in which all the new commercial grower gathered to exchange their experience. Mrs Chunni Devi got prize for his dedication in mushroom production.	
Timeline of the entrepreneurship development	Mrs Chunni Devi is a young and laborious farmer so she was eager to earn from other enterprise along with his traditional farming. Before getting proper training in this field she was supporting her colleague in mushroom production. She individually earned Rs. 15,000.00 in winter season of 2019. This was her first experience in this field. But now She was eager to cultivate mushroom separately so she took proper training from KVK Saraiya under 5 days Rural youth training programme. In year 2020 she started to cultivate oyster mushroom. She also purchased compost and started to produce Button mushroom also. She produced 100 kg of button mushroom with net profit of Rs 0.8 lakh and Rs. 4,000.00 from oyster mushroom production.	
Technical Components of the Enterprise	Oyster and button mushroom production hut, boiler, autoclave, water tank, gas cylinder	
Status of entrepreneur	Before starting mushroom production she was earning Rs 12000 per	
----------------------------	--	
before and after the	month as worker. But now he is earning 1.2 lakh in six month by	
enterprise	mushroom production along with earning from farming also.	
Present working	Present working condition of this enterprise is full of opportunities in	
condition of enterprise in	terms of mushroom production, value added product production, animal	
terms of raw materials	feed production, etc. For all these items the raw material i.e. straw (for	
availability, labour	oyster and milky mushroom production) compost (for button mushroom	
availability, consumer	production) casing material, wheat (for spawn production) are easily	
preference, marketing	available at low cost at village level. Mushroom grower has their own raw	
the product etc. (material produced and as agricultural waste. The value added product can	
Economic viability of	be easily prepared by using the traditional knowledge of farm women	
the enterprise)	with some technical knowledge. As it is new enterprise. So, there is no	
	much problem in marketing. The fresh product is sold at local level and	
	some farmers have buyback contract from some company for dried	
	product. Its value added product also gives new taste, so easily sold at	
	good profit.	
Horizontal spread of	Fifteen farmers and five farm women of neighbouring villages started	
ontorpriso	button and milky mushroom production. They are selling 5-10 kg	
enterprise	mushroom per day in this season and selling it Rs. 120 kg to rs.180 kg.	
	Especially women farmers are showing too much interest and inspite of	
	social barrier they are coming in this field. They are using their traditional	
	knowledge in making value added product also.	

4.6.Any other initiative taken by the KVK

- □ **Kisan Sarthi portal:** More than 6000 farmers of muzafarpur district were registered on kisan sarthi portal for interacting with experts of KVKs for various activities.
- □ NADEP Unit: A NADEP unit was constructed at KVK campus for utilizing agriculture waste.
- □ Fish farming under IFS
- □ Eight different type of Millets demonstration
- \Box Raised bed arhar cultivation
- □ Implement shed development
- □ Medicinal garden development

Natural farming:

Sl.no	Particulars	No. of activities	No. of farmers beneficeries					
			М	F	SC	ST	Total	
1	Training	01	32	8	5		40	
2	Demostration	08	7	0	1	0	8	
3	Awareness programme (Group meetings, Exposure visit, method demonstration & exhibition)	08	-	-	-	-	605	

Total

17

653

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage				
Department of Agriculture, Govt. of Bihar	Identification of training needs				
	Joint implementation of training programme,				
	Diagnostic Team visits				
	Identification of target groups				
Agricultural Technology Management	Sponsored Training Programme, Training and field				
Agency (ATMA) Muzaffarpur	visit				
Department of Horticulture govt. of Bihar	Joint participation in meetings for NHM				
	Joint implementation of training programme				
District Animal Husbandry Officer, Bihar	Capacity building				
Govt.					
District Fisheries Officer, Bihar Govt.	Capacity building				
Word vision, Muzaffarpur (NGO)	Field visit and training, Technical support				
RPCAU, PUSA	Technical Guidance on Training and other Extension				
	activities.				
National Research Centre on Litchi,	For training & demonstration.				
Muzaffarpur					
SSB, Muzaffarpur	For training & consultancy.				
IFFCO, Muzaffarpur	For training & Transfer of Technology				
NFL, Muzaffarpur	Demonstration, trial and training				
BAMETI, Patna	Transfer of technology				
NABARD	Transfer of technology for farmers club and SHG				
JIVEEKA	Transfer of technology				
NRC, Litchi	OFT and field visit				
Sudha Dairy, Muzaffarpur	Field visit				
Unique Food processing Industry	Field Visit				

5.2.List of special programmes undertaken during 2022 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies (information of previous years should not be provided)

a) Programmes for infrastructure development

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
NHM	Development of fruits plant nursery	2021-22	NHM	200000.00

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

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

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

SI	Name of	Vea		Deta	Details of production Amount (Rs.)			Remarks	
N 0.	demo Unit	r of estt.	Area (Sq.ft)	Var iety /br eed	Produce	Qty.	Cost of input s	Gros s inco me	
1.	Mushroo m spawn unit	201 2	120	-	-	-	-	-	Demonstr ation purpose
2.	Mushroo m productio n unit	201 5	600	-	-	-	-	-	
3.	Vermicom post	200 9	400			9.0 q	-	540 0	
4.	Azolla		300	-	-	-	-		Demonstrati on purpose
5.	Poly house	202 0		Cucu rbits, toma to, brinj al capsi cum and chilli	Chili Brinjal, Cauliflower , Cabbage, Beans, papaya, Citrus	111 5 268 2 690 200 65 408 15		180 00. 00	
6	Shed net	202 0							
7.	Zero energy cool chamber	201 7	1.33						Demonstr ation purpose
8	Low cost onion storage structure	201 7	1.71	-	-	-	-	-	For demonstra tion purpose
9	Implemen t shed	202 2	500	-	-	-	250 000 0	-	Under CRA Project
1 0	Micro-irri gation system	202 1		Rice -whe at	Rice-wheat		-	-	

Nam	Date of	Date of	Α	Details of production			Amou	int (Rs.)	Rema
e of the crop	sowing	harvest	re a (h a)	Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	rks
Paddy	12/07/202 2	12/11/202 2	2.0	Rajshree	Seed	70.50	11000 0		
Wheat	26/12/202 1	23/04/202 2	2.0	HD2967	Seed	40.50	82000	174150.0 0	
Rye	16/12/202 1	24/03/202 2	0.8 0	R.Sufla m	Seed	2.70	17900		
Green gram	05/03/202 2	10/06/202 2	2.5	IPM-2-3	Seed	3.07	21900	3250.00	
Finger Millet	16/06/202 2	25/10/202 2	0.3 2	R. Madua 8	-	3.30	11500		

6.2. Performance of Instructional Farm (Crops)

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

SI	Name of the		Amou	nt (Rs.)	
SI. No.	Product	Qty. (q /Kg)	Cost of inputs	Gross income	Remarks
1	Vermicompost	9.0 q	-	5400.00	

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

	Name	Detai	ls of produc	tion	Amo		
SI. No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1.	IMC Fish	U	Under Culture				In progress
2.							
3.							

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

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

January-Fe b	25	07 days	Nil
March	25	7 days	Nil
June	35	15 Days	Nil
September	35	15 Days	Nil

(For whole of the year)

6.6.Utilization of staff quarters

Months		QII	Q III	QIV	QV	QV I
Whether staff quarters has been completed:			Not Av	ailable		
No. of staff quarters:						
Date of completion:						
Occupancy details:						

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Main account	SBI, ADB,Saraiya	Saraiya	11442062178
Revolving fund	SBI, ADB,Saraiya	Saraiya	11442113341
New Account	SBI, ADB, Saraiya	Saraiya	38702516164

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

Itom	Rele IC	ased by CAR	Exj	penditure	Unspent balance as
Item	Khari f	Rabi	Kharif	Rabi	on –Dec.2021
Rapeseed & mustard	0	160241	0	155386	(-)84614.00

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

	Released by ICAR		Expen	Unspent	
Item	Kharif	Rabi	Kharif	Rabi	balance as
					on Dec.2021
Chickpea					
Lentil					(-)78225.00
Total	00	336000.00	00	290746.00	

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

Sl. No	Particulars	Sanctioned	Released	Expenditure			
A. R	A. Recurring Contingencies						
1	Pay & Allowances	-	-	-			

2	Traveling allowances	75000.00		32000.00
	HRD	15000.00		00.00
3	Contingencies			
A	Office head	200000.00		200000.00
B	Training head			
С	FLD			
D	OFT	450000.00		404850
E	Maintenance of building			
F	Extension Kisan Mela			
G	Sub-TOTAL(2+3)	740000.00	734854.00	604850.00
	TOTAL (A)	740000.00	734854.00	604850.00
B. N	on-Recurring Contingencies			
1				
2				
3				
4				
	TOTAL (B)	00.00	00.00	00.00
C. R	EVOLVING FUND	0	414756.00	239357.00

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2019	248505.00	593936.00	536151.00	57584.92
2020	57584.92	935973.00	503792.00	489665.92
2021	489665.92	414756.00	239357.00	698991.84
2022	698991.84	1525556.64	889951	1334597.5

- 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 activity	Season	With line department	With ATMA	With both
Kharif Mahaabhiyan	6	Kharif	Yes	Yes	Yes
Rabi Mahaabhiyan	5	Pre-Rabi	Yes	Yes	Yes
Kisan Pathshala	0	-	-	-	-
Acrredation of Nursery	0	-	-	-	-
Visit of demonstration unit	5	Rabi	Yes	Yes	Yes
Certificate Course	2	Kharif	Yes	-	-
Scientist farmers intraction programme	1	Kharif	Yes	Yes	Yes
Crop damage assessment	4	Kharif	Yes	Yes	Yes

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)

8.2. Prevalent diseases in Livestock/Fishery

Name of the disease	Species affected	Date of outbreak	Number of death/ Morbidit y rate (%)	Number of animals vaccinated	Preventive measures taken in pond (in ha)
FMD	Bovines	July, Aug 2021	2%	Vaccination ongoing	-
Argulosis	IMC Fishes	Late November	30 %	50 % stock	Water Exchange & Minimising Stocking density

9.1. Nehru Yuva Kendra (NYK) Training

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

9.2. PPV & FR Sensitization training Programme

			Registration (crop wise)		
Date of organizing the programme	Resource Person	No. of participants	Name of crop	No. of registratio n	

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

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

Total	

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	348
2.	No. of farmers registered in the portal	6315
3.	Mobile Apps developed by KVK	0
4.	Name of the App	0
5.	Language of the App	0
6.	Meant for crop/ livestock/ fishery/ others	0
7.	No. of times downloaded	0

9.5 Kisan Mobile Advisory Services (KMAS)

Sl. No.	Discipline	No. of Advisories	No. of Messages (SMSs)	No. of Farmers
1.	AgroMet	104	104	2450
2.	Agriculture and			
	allied	285	-	300

9.6. a. Observation of Swachha Bharat Programme/Pakhwara

Date/			No. of Par	ticipants	
Duration of Observatio n	Activities undertaken	Staffs	Farmer s	Others	Total
02/10/2022	Display of banner at prominent places, taking Swachhata pledge	10	5	-	15
04/10/2022	Cleanliness drive including cleaning of offices, corridors and premises of kvk	12	5	-	17
06/10/2022	Cleanliness and sanitation drive in the villages adopted by kvk	10	6	-	16
07/10/2022	Cleanliness and sanitation drive within campuses and surroundings including residential colonies	10	6	-	16
10/10/2022	Waste to wealth practice	10	17	-	27
11/10/2022	cleaning of sewerage & water lines	10	-	-	10
12/10/2022	conversion of waste to wealth, safe disposal of all kinds of wastes	10	18	-	28
13/10/2022	Celebration of Special Day	10	30	-	40
14/10/2022	Swachhta Awareness at local level	10	22	-	32
15/10/2022	Awareness on waste management & other activities	10	21	-	31

	including utilization of organic wastes.				
17/10/2022	Swachhta Awareness at local level	7	2	-	9
21/10/2022	Polythene free and waste to best management	10	17		27
27/10/2022	Water harvesting in kitchen garden	10	30	-	40
28/10/2022	Community waste disposal site management	10	17		27
29/10/2022	Cleanliness and sanitation drive in the villages adopted by kvk	10	17		27

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	6	
2. Basic maintenance	1	
3. Sanitation and SBM	2	
4. Cleaning and beautification of surrounding areas	20	
5. Vermicomposting/ waste-decomposer Composting of biodegradable waste management & other activities on generate of wealth for waste	100	8000.00 -
6. Used water for agriculture/ horticulture application	-	
7. Swachhta Awareness at local level	5	
8. Swachhta Workshops	-	
9. Swachhta Pledge	1	
10. Display and Banner	1	400.00
11. Foster healthy competition	-	
12. Involvement of print and electronic media	3	
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	1	
14. No. of Staff members involved in the activities	12	
15. No of VIP/VVIPs involved in the activities	-	
16. Any other specific activity (in details)	-	
Total	-	8400.00

9.7. Observation of National Science day

Date of Observation	Activities undertaken

9.8. Programme with Seema Suraksha Bal/ BSF

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

Title of Programme	Date	No. of	Teaching aids used
		participants	
Different types of Pickles	14.12.2022	25	Lecture & Method
Making			demonstration
Organic Farming	15.12.2022	22	Lecture method
Herbal gulal making	16.12.2022	22	Lecture & Method
			demonstration

9.9. Agriculture Knowledge in rural school

Name and address	Date of visit	Areas covered	Teaching aids
of school	to school		used
Project Girls High	22.04.2022	Azadi Ka Amrit Mahotsava,	Lecture delivered
School, Saraiya		Importance of millets	
Project Girls High	22.04.2022	Importance of organic farming	Lecture delivered
School, Saraiya			
Project Girls High	-	Importance of Agriculture	Lecture delivered
School, Saraiya			

Give good quality 1-2 photograph(s)

9.10. Details of 'Pre-Rabi Campaign' Programme

				Particip	ants (No.)						C o v	
Date of program me	No. of Union Minist ers attend ed the progra mme	No. of Ho n'ble MPs (Loksa bha/ Rajyas abha) partici pated	N of St e G ov t. M ini ste rs	M L As At te nd ed th e pr og ra m e	C ha ir m Zi la Pa nc ha ya t	Di stt C oll ec to r/ D M	B an k O f f i c i a l s	Far mers	G ov t. Of fic ial s, P RI m e m be rs et c.	T ot al	e r a g e b y D o o r D a r S h a n (Y es / N	Co ver age by oth er cha nn els (N um ber)
30.05.202 2								125				
31.05.202 2								123				
01.06.202 2								245				
05.06.202 2		<u> </u>						135				
06.06.202 2								145				
07.06.202 2								136				

08.06.202				156		
2						
24.09.202				175		
2						
27.09.202				145		
2						
28.09.202				123		
2						
29.09.202				125		
2						
01.10.202				122		
2						
14.10.202				142		
2						

9.11. Details of Swachhta Hi Sewa programme organized

SI	Activity	No. of villages	No. of	No of	Name of
no.	5	Involved	Participants	VIPs	VIPs

9.12. Details of Mahila Kisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1.	Mahila Kisan goshti	5	25	-	-

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

Sl. No.	Name of Farmer	Address of the farmer	Contact no	Innovation/ Leading in enterprise
1.	Sri Anil Kumar	Basudevpatti, Saraiya	9162636034	Mushroom cultivation
2.	Smt Chunni Devi	Bayadih, Saraiya	8409552325	Mushroom cultivation
3	Sri Abhishek	Saraiya	8210899601	Bee keeping
	Ranjan			
4.	Sri Rakesh	Saraiya	9431441605	Crop Production
	Kumar			
5.	Sri Rajesh	Saraiya	9771929903	Natural Farming
	Ranjan			
6.	Sri	Paroo	9546832300	Natural Farming
	Shashibhushan			
7.	Sri Akhilesh Rai	Saraiya	9546277660	Natural Farming

9.14. Revenue generation

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
1	Traning hall charge/Kisan hostel	155546	
	Demonstration Unit		
2	Mushroom		

	Fish		
	Vermi-compost	7404	
	Kitchen Garden	719	
3	Agriculture residue (Straw)		
4	Seedling (Vegetable)	44290	
5	Seedling(Paddy)	12840	
6	Horticulture plant	5500	
	Seed (Wheat)		
7	RAI		
	Paddy		
8	Soil testing	29675	
9	RAWE (Fee)	230000	
10	Institutional charge (INM Training)		
11	Custom Hiring Center	521687	
	Total	1007661	

9.15. Resource Generation:

Sl.No	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1	CFLD Oil seed	To increase the production of pulses and oilseeds	ICAR	2,40,000	
2	CFLD Pulses	To increase the production of pulses	ICAR	360,000	
3.	CRA	For climate resilience agriculture	Govt. of Bihar	2373500	
4.	CSISA	To increase the production of cereal	ICAR	100000	
5	Natural farming	Demostration of Natural farming	ICAR	2,67,800	
6.	Capital (SCSP)	For empowerment to Scheduled castes	ICAR	2,25,000	
7.	General (SCSP)	For empowerment to Scheduled castes	ICAR	1, 25,000	
8.	INM	Certificate cource for fertilizer dealership	Govt. of Bihar	1375000	

9.16. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
2022	IMD, Pune	Functional

9.17. Contingent crop planning

Name of the state	Name of district/KV K	Thematic area	Number of programmes organized	Number of Farmers contacte d	A brief about contingent plan executed by the KVK

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

KVK 1 : Rice-Wheat system optimization through crop establishment

Objective: To evaluate the effect of DSR on yield and profitability at the systems level

Treatments:

Sr. No.	Treatment
T1.	Vattar (dust mulch) DSR followed by zero tillage wheat under BMP practice
Т2.	Puddled transplanted rice followed by zero tillage wheat under BMP practice
т3.	Puddled transplanted rice followed by conventional tillage wheat DOS/ DOT as per farmer practice

Treat ment	Aver age Effec tive Tiller s	pani cle leng th (cm)	Numbe r of panicle s/m2	Number of Unfilled grains/p anicle	Number of Filled grains/p anicle	Bund le weig ht (kg/4 m2)	Grain weig ht (Kg/4 m2)	Grai n yield (Kg/ ha.)	Cost of cultvat on/ha	gros s retur n	Net retur n	B : C
T1	34.40	20.4	238.07	17.87	220.20	4.87	1.84	4599.0	32116.0	8922	5710	1.
		0						8		2.22	0.22	/ð
T2	20.00	19.2	164.53	19.53	145.00	3.91	1.92	4802.5	38800.0	9316	5436	1.
		0						0		8.50	8.50	40
Т3	18.20	21.2	214.13	22.40	191.73	4.52	1.72	4304.0	40184.4	8349	4331	1.
		0						0		7.60	3.20	08

Result

The table above shows the significant treatment to evaluate the effect of DSR on yield and profitability at the systems level. The table shows the average effective tillers, panicle length, number of panicles/m2, number of unfilled grains/panicle, number of filled grains/panicle, bundle weight, grain weight, grain yield, cost of cultivation/ha, MSP, gross return, net return and B:C for each of the three treatments (T1, T2 and T3). Treatment 1 had the highest average effective tillers (34.40), panicle length (20.40 cm), number of panicles/m2 (238.07), bundle weight (4.87 kg/4m2), grain weight (1.97 kg/4m2), grain yield (4936.17 kg/ha), gross return (95761.63) and net return (63645.63), while Treatment 2 had the highest number of unfilled and filled grains/panicle (19.53 and 145.00, respectively). Treatment 3 had the highest cost of cultivation/ha (40184.40) and the lowest B:C ratio (1.08).

T1 had the highest average effective tillers, panicle length, number of panicles per m2, and bundle weight. Treatment 2 had the highest number of unfilled grains per panicle, while

Treatment 3 had the highest number of filled grains per panicle. Treatment 1 also had the highest grain weight, grain yield, gross return, net return, and benefit-cost (B:C) ratio.

KVK 2 (Demonstration 1): Performance of DSR under dust mulch (presowing irrigation or equivalent pre-monsoon rain)

Objective:

To demonstrate the performance of DSR compared to puddle transplanted rice

Treatments: The following treatments will be demonstrated:

Sr. No.	Treatment
T1.	DSR + presowing irrigation and postsowing irrigation @ 15-21 days after sowing (DAS)
т2.	Puddle transplanted rice (check)

Result

Treatm ent	Avera ge Effecti ve Tillers	pani cle lengt h (cm)	Number of panicles/ m2	Number of Unfilled grains/pan icle	Number of Filled grains/pan icle	Bundl e weight (kg/4 m2)	Grain weight (Kg/4 m2)	Grain yield (Kg/h a.)	Cost of cultvaton /ha	gross return	Net return	B: C
T1	34.40	21.3 6	238.74	18.57	220.16	4.97	1.95	4886. 76	32116.00	94803. 08	62687. 08	1. 95
T2	19.20	19.5 3	164.40	19.91	144.49	3.97	1.69	4222. 83	38800.00	81922. 81	43122. 81	1. 11

The grain yield of T2 was 4.8 t/ha which was 15.72 % higher than T1. The net returns of T1 was Rs. 62687 /ha which was 45.72 % higher than T2. it can be concluded that DSR with pre-sowing irrigation at 21 DAS performed better than Puddled transplanted rice.

KVK 3 (Demonstration 2) : Demonstrating benefits of IWM in transplanted rice where adoption is low and likely impact high based on LDS data (combined with Field days)

Objective:

To demonstrate the benefits of integrated weed management in transplanted rice in low adoption regions

Treatments:

Sr. No.	Treatment
T1.	Farmer's practice (Current farmer's weed management practice)
T2.	IWM (Bispyribac + pyrazosulfuron (20+ 20 g ai/ha) at 20 DAT fb one spot hand weeding.

Treat ment	Avera ge Effect ive Tiller s	pani cle lengt h (cm)	Number of panicles/ m2	Number of Unfilled grains/pan icle	Number of Filled grains/pa nicle	Bundl e weigh t (kg/4 m2)	Grain weight (Kg/4 m2)	Grai n yield (Kg/ ha.)	Cost of cultvato n/ha	gross return	Net retur n	B: C
T1	28.33	21.3 5	169.00	20.22	148.78	3.98	1.72	4294. 44	38500.00	83312. 22	44812 .22	1. 16
T2	24.67	19.4 1	245.33	29.33	216.00	5.05	2.19	5476. 39	40584.00	106241 .94	65657 .94	1. 62

Results: The integrated weed management treatment (T2) resulted in a higher grain yield of 5476.39 kg/ha, which is 24.3% higher than the farmer's practice (T1) of 4294.44 kg/ha. The net returns were also higher for IWM treatment (T2) at Rs. 65657.94/ha as compared to Rs. 44812.22/ha for Farmer's practice (T1). This indicates that IWM treatment was more profitable for the farmers.

KVK5: Reducing seed rate of rice through rice nursery enterprise (RNE), 10 RNEs in each district

Objective: To reduce seed rate of Rice through Rice nursery enterprise (RNE)

Rice seed rate: 180 kg/acre, rice seed 90 kg uses for 0.5 acre

Raising rice nursery area: 0.5 acre

Rice seed requirement: 90 kg

Treatment 1: 7.5 acre area transplanted from 0.5 acre of rice nursery (12 kg seed rate per acre, 3 seedlings per hill with spacing of 20 cm x 15 cm).

Treatment 2: 15 acre area transplanted from 0.5 acre of rice nursery (6 kg seed rate per acre, 2 seedlings per hill with spacing of 20 cm x 15 cm).

Treatment 3: 30 acre area transplanted from 0.5 acre of rice nursery (3 kg seed rate per acre, 1 seedling per hill with spacing of 20 cm x 15 cm).

Layout for 0.5 acre rice nursery area:

Result

Treat ment	Avera ge Effect ive Tiller s	pani cle leng th (cm)	Number of panicles/ m2	Number of Unfilled grains/pan icle	Number of Filled grains/pa nicle	Bund le weig ht (kg/4 m2)	Grain weigh t (Kg/4 m2)	Grain yield (Kg/ha .)	Cost of cultvato n/ha	gross return	Net return	B:C
T1		21.0						4736.1	41000.0		5088	1.2
	19.67	0	199.89	19.78	180.11	4.57	1.89	1	0	91880.56	0.56	4
T2		22.0						6050.0	40000.0	117370.0	7737	1.9
	38.33	0	228.33	18.56	209.78	5.18	2.42	0	0	0	0.00	3
T3		21.3						5433.3	39500.0	105406.6	6590	1.6
	31.67	3	213.78	18.11	195.67	4.93	2.17	3	0	7	6.67	7

This table summarizes the results of a study on reducing seed rate of rice through the use of Rice Nursery Enterprises (RNE). The three treatments are T1, T2, and T3, which describe the seed rate per acre, the number of seedlings per hill, and the spacing of the seedlings, respectively. For each treatment, the table includes the grain yield (in kg/ha), the cost of cultivation per hectare, the Minimum Support Price (MSP), the gross return, the net return, and the Benefit-Cost (B:C) ratio. T 1 had a seed rate of 12 kg per acre with 3 seedlings per hill and a spacing of 20 cm x 15 cm, and resulted in a grain yield of 4736.11 kg/ha, a cost of cultivation of 41000.00, MSP of 1940.00, gross return of 91880.56, net return of 50880.56, and a B:C ratio of 1.24. Treatment 2 had a seed rate of 6 kg per acre with 2 seedlings per hill and a spacing of 20 cm x 15 cm, and resulted in a grain yield of 6050.00 kg/ha, a cost of cultivation of 40000.00, MSP of 1940.00, gross return of 77370.00, T2 was significantly high as compare to T2, and T3.

KVK 6 : Phosphorus reduction and omission trials in rice

Objective:

To evaluate the yield effect of reducing or omitting P fertilizer in rice wheat systems **Treatments:**

Sr. No.	Treatment
T1.	60 P ₂ O5 rice (fb) 60 P ₂ O ₅ wheat*
T2.	0 P ₂ 05 rice (<i>fb</i>) 60 P ₂ O ₅ wheat*
Т3.	30 P ₂ O ₅ rice (<i>fb</i>) 30 P ₂ O ₅ wheat*

*150 N and 40 K₂O will be applied for all treatments and crops Conduct trials in soil with High and Low P based on DSM. Target farmer list will be provided.

Treatment	Grain yield (Kg/ha.)	Cost of cultvaton/ha	MSP	gross return	Net return	B:C
T1	4854.75	41000.00	1940.00	94182.23	53182.23	1.30
T2	4378.50	39500.00	1940.00	84942.91	45442.91	1.15
T3	4518.83	40000.00	1940.00	87665.33	47665.33	1.19

Result

This table is evaluating the yield effect of reducing or omitting P fertilizer in rice wheat systems. The treatment T1 being the control with 60 P2O5 for both rice and wheat, treatment T2 reducing P fertilizer to 0 for rice and 60 P2O5 for wheat, and treatment T3 reducing P fertilizer to 30 for both rice and wheat. The results shows that Treatment 1 yields and B:C ratio. Was the highest as compared to T2 and T3.





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Report on Cereal Systems Initiative for South Asia (CSISA)

a) Year: Rabi- 2022-23 Introduction / General Information:

KVK-1. Performance of timely sown (TSWVs) and late sown wheat varieties (LSWVs) under different sowing schedules across ecologies.

Objective:

Comparative study of yield performance of cultivars recommended for Timely sowing with cultivars recommended for early /late sown conditions under early/ late sown conditions

Treatment	Treatment Method DOS						
Set 1 with Cultivar HD 2967 or HD 2733							
Two Set of Seeding	g Dates have been removed for thi	s trial					
1	Zero-Till Drill Wheat sowing	21 st to 30 th Nov					
2	Zero-Till Drill Wheat sowing	1 st to 15 th Dec					
3	Zero-Till Drill Wheat sowing	16^{th} to 31^{st} Dec					
Set 2 with Cultivar	PBW 373 or HD 2985 or HI 156.	3					
Selection of SDV	to be discussed mutually (see	d will be purchased from one place and					
distributed at all sit	tes)						
1 Zero-Till Drill Wheat sowing 21 st to 30 th Nov							
2 Zero-Till Drill Wheat sowing 1 st to 15 th Dec							
3 Zero-Till Drill Wheat sowing 16 th to 31 st Dec							
Set 2 T3 can be optional if not applicable							

Results: Crop Standing

KVK-2. Assessing the effect of irrigation intensification on productivity of early and late planted wheat under conventional (CT-Broadcast and CT-Line Sowing) and zero tillage (ZT)

Objective: To quantify the gains in wheat productivity from additional irrigation given at dough stage of wheat. To understand the impact of last irrigation on the lodging of wheat.

Treatment design:

Earl	Early sown fields (before Nov 7- 20th)							
T 1	CT (Broadcasting and Line Sowing) with 3 irrigations (21 DAS, 65 DAS, 105 DAS)							
T 2	CT (Broadcasting and Line Sowing) with 4 irrigations (21 DAS, 65 DAS, 85 DAS, 105 DAS)							
T 3	ZT with 3 irrigations (21 DAS, 65 DAS, 105 DAS)							
T 4	ZT with 4 irrigations (21 DAS, 65 DAS, 85 DAS, 105 DAS)							
Late	Late sown fields (Dec 16th to 25st)							
T 1	TCT (Broadcasting and Line Sowing) with 2 irrigations (21 DAS, 65 DAS)							
T 2	CT (Broadcasting and Line Sowing) with 3 irrigations (21 DAS, 65 DAS, 105 DAS)							

T
3ZT with 2 irrigations (21 DAS, 65 DAS)T
4ZT with 3 irrigations (21 DAS, 65 DAS, 105 DAS)

note: *ZT and CT fields should be as close as possible and at a minimum in the same village. CT plots to be divided into two half broadcast and half line sowing. **Fields must have been under ZT and CT for a minimum of 5 years.

Results: Crop Standing

KVK-4: Phosphorus reduction and omission trials in rice

Objective: To evaluate the yield effect of reducing or omitting P fertilizer in rice wheat systems

Treatments:

Sr. No.	Treatment
T1.	$60 P_2O_5$ rice (fb) $60 P_2O_5$ wheat*
Т2.	$0 P_2O_5$ rice (fb) $60 P_2O_5$ wheat*
Т3.	$30 P_2 O_5$ rice (fb) $30 P_2 O_5$ wheat*

*Note: Plot and Treatments must remain as mentioned in above table.

150 N and 40 K₂O will be applied for all treatments and crops

Conduct trials in soil with High and Low P based on DSM. Target farmer list will be provided

Results: Crop Standing



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11. Details of TSP

a. Achievements of physical output under TSP during 2020

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

b. Fund received under TSP in 2017-18 (Rs. In lakh):

c. Achievements of physical outcome under TSP during 2017-18

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

d. Location and Beneficiary Details during 2017-18

District	Sub-distri ct	No. of Village	Name of village(s)	ST population benefitted (No.)				
		covered	covered	Μ	F	Т		

-	-	-	-	-	-	-
10 D (1	C C C C D				-	

12. Details of SCSP

Sl.	Activities	Physical Achievement			
1)	Trainings	No. of Trainings/Demos	No. of beneficiaries		
a.	Farmer	-	-		
b.	Women	-	-		
c.	Rural Youths	1	20		
d.	Extension Personnel	-	-		
2)	OFT	No. of OFTs	No. of beneficiaries		
3)	FLD	No. of FLDs	No. of beneficiaries		
		1	20		
4)	Mobile agro- advisory to farmers	No. of advisory	No. of beneficiaries		
		104	100		
5)	Other activities				
a.	Participants in extension activities (No.)				
b.	Production of seed (q)				
c.	Production of Planting material (No. in lakh)				
d.	Production of Livestock strains (No. in lakh)				
e.	Production of fingerlings (No. in lakh)				
f.	Testing of Soil, water, plant, manures samples (Nos.)				

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

Natural Resource Management

Name of intervention undertaken	Number s under taken	No of	Are		N	o of	farı bei	mers nefit	cov ted	ered	/		Demeda
		aken s (ha)	$\mathbf{t} \begin{bmatrix} \mathbf{a} \\ \mathbf{b} \end{bmatrix}$	SC		ST		Otl	her	Tot	al		Remarks
			Μ	F	Μ	F	Μ	F	Μ	F	Τ		

Crop Management

Name of intervention undertaken	Are a (ha)		No of farmers covered / benefitted								Remarks
		S	SC ST				her				
		Μ	F	Μ	F	Μ	F	Μ	F	Τ	

Livestock and fisheries

Name of intervention	Number	No	Area	No of farmers covered / benefitted	Remarks
undertaken	of	of	(ha)		

animals covered	unit s					_		_			
		SC		ST	_	Otl	her	Tot	al		
		Μ	F	M	F	Μ	F	Μ	F	Τ	

Institutional interventions

Name of intervention undertaken	No of unit s	Area (ha)	N	No of	f farr	ner	s cov	erec	l / be	enef	itted	Remarks
			SC		ST		Ot	her	Tot	al		
			Μ	F	M	F	Μ	F	Μ	F	Т	

Capacity building

Thematic area	No of Courses		_		No of	bene	ficiaries	5		
		SC	S	Т		Othe	er	Т	otal	
		Μ	F	Μ	F	Μ	F	Μ	F	Т

Extension activities

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

Detailed report should be provided in the circulated Performa

14. a) Awards/Recognition received by the KVK in year 2021

Sl. No.	Name of the Award	Conferring Authority	Purpose
1.	Best Young Scientist Award Dr. Tarun kumar (SMS Agriculture engineering)	Conference mind at Frankfurt, Germany	Promotion of Research and extension in KVK
2.	Young Soil And Water Conservationist Award Dr. Tarun kumar (SMS Agriculture engineering)	GAFEF-2022 from AETDS Utrakhand	Promotion of Research & Extension Reserach
3.	Women Scientist Award Savita kumari (SMS Home Science)	Conference mind at Frankfurt, Germany	Out standing achievement in Women empowerment & encourasing in women entrepreneur
4.	Best Extension Worker Award-2022 Savita kumari (SMS Home Science)	VSANB-2022 Society for Science and Nature Lucknow	Promotion of Extension in KVK & other govt. organization

5.	Best young Scientist Award	Conference	mind	at	Promotion	of	Research	&
	Dr. Rajneesh Singh (SMS	Frankfurt, Ger	many		Extension R	leser	ach	
	Crop production)		-					

b) Award received by Farmers in year 2022

SI.	Name of the Award	Name of the Farmer	Address	Contact No.	Aadhar No.	Amount	Purpose	Conferrin g Authority
1.	Abhinav	Mr. Abhishek	Vill-	821089960	855395508189	5000	Bee-Keepin	DRPCAU,
	Kisan	Ranjan	Pokhraira	1			g, Poultry,	Pusa
	Puraskar	-					Fishery &	
							Goatery	

c) Registration certificate of Linseed varity RB-TISIWA (REG/2017/2217

SI.	Registration certificate of Linseed varity	Name of the Farmer	Address	Purpose	Conferring Authority
1.	Plant varies Registry	Mr. Ram Bahadur Bhagat	Vill- Bhagwatpur	Bee-Keeping, Poultry, Fishery & Goatery	Protection of plant varieties & Farmers rights authority, Ministry of Agriculture & Farmers welfare, Govt. of India



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

Popularization of Micro-Irrigation in Muzaffarpur district

Adoption of Micro-Irrigation System

More than 100 farmers adopted drip Kit Drip Irrigation: 107 ha. Mini sprinkler: 125 ha.



ICAR has set up District Agro-Met Unit (DAMU) under Gramin Krishi Mausam Seva (GKMS) scheme.

Agro-advisory services are given to the farmers that helps them in taking desion related to farm activities such as sowing / transplanting of seedlings, pesticides, weedicides and fertilizer application etc.

Income Generation by Master trainer

Master Trainer developed in field of Beekeeping.

Their services are utilized by organization like Jeevika.

He was master trainer under JEEVIKA in 30 trainings









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

SI. No	Name of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
1.	Saraiya Kisan farmer producer company limited	26.07.2021	Ramsagar Choudhary Bhatoliya, Saraiya Muzaffarpur	Productio n	Wheat	300	3 lakh	Production and marketing
2	Climate Resilent agriculture Farmers Producer Company LTD.	01.4.2018	Rakesh kumar Dawarrikanathpur	Productio n	Wheat	1000	1.4 lakh	Productino and marketing
3	Nee Farmers Producer Company LTD.	07.12.2019	Viney Kumar kati	Productio n	Wheat &vegitable	1000	2.10 lakh	Productino and marketing
4	Sahajanand Farmers Producer Company LTD.	2021	Meenapur	Productio n	Wheat &vegitable	600	1.0L	Productino and marketing
5	Sarvoday sabji utpadak producer co. Itd	19.01.2016	Motipur	Productio n	Vegetable	600	1.0 L	Productino and marketing

17. Integrated Farming System (IFS)

A) Details of KVK Demo. Unit

SI. No.	Module details (Component-wis e)	Area under IFS (ha)	Production (Commodity-wis e)	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	1	Fish and Horticulture crops	-	-	5	40%

B) Activities under IFS

Sl. No.	Component Name	No. of Components	Area (ha)	No. of A	ctivities	No. of farmers benefited	
		established		Demo	Training	Demo	Training
1.	Fish	2	0.5	8	-	500	-

_								
	2.	Horticulture crop	1	0.5	8	3	500	45

18. Technologies for Doubling Farmers' Income

SI. No	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Mushroom cultivation	 Three crop can be taken in a year Farming based on agriculture residue. Dobling the farmer Income Landless farmer, women, aged person may also do this. 	50000.00 (on the basis of per unit of 600 ² ft)	180	
2	Bee Keeping	 Provide an important source of income Provide honey and other by products such as bee wax, pollen etc. Play important role in pollination that helps increasing crop production 	507500.00 per year from 400 boxes	45	
3	Vermicompost	 High quality compost prepared in 45-60 day. More than 6 times beneficial in compare to general compost. 	15000 per year per unit	62	
4	Drip and sprinkler irrigation	 Watering the vegetable plants more efficiently in minimum amount of water. Productivity increase due to sufficient water per plant 	40,000.00	120	

5	Fisheries	 Fish farming can be integrated into existing farm to creat additional income. It also improves water management Farmers can select fish species with desired characteristic 	205000.00	57	
6	Goatry	 Goats are multi purpose animal which can produce milk meat, fibre skin together Goat farming required less space than live stock farming 	65000.00	112	
7	Poultry	 No need for a big space High return in short time period High maintenance not required Easy marketing 	217000.00	35	На полнатичности

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

	Database pre	pared/ covered for	KVK leve	l Committee	Variana activity	
Phase	Total no. of	Total no. of	Date of	Name of	conducted for farmers	
	villages	farmers	formation	members		
I (up-to 15.03.2018)						
II (up-to 24.04.2018)						
Total						

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

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

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

Year	Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants	Whether uploaded to SDMS Portal (Y/N)	Fund utilized for the training (Rs.)
2019	Job role for mushroo m grower	Shree Hemchandra Choudhary	7.01 2019	19.02.2019	20	yes	
	Job role for mango grower	Dr. A.K.Singh	17.01.2019	21.02.2019	20	yes	
2020	Organic grower	Dr. Anupma Kumari	13-01-202 0	17-02-2020	20	yes	180000.00

	Micro –irrigatio n technician	Dr. Tarun Kumar	13.01.2020	17.02.2020	20	yes	210800.00
2021	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2022	Nil	Nil	Nil	Nil	Nil	Nil	Nil

b) Information on Skill Development Training Programme (Other than ASCI or less than 200 hrs. if any) if undertaken during 2021

Th	Title of the training	Duration (in hrs.)		No. of participants							F 1 4'1' 1 6	
Thematic area			S	С	S	Т	Otl	her		Tot	al	Fund utilized for the training (Dg)
of training			Μ	F	Μ	F	Μ	F	Μ	F	Т	the training (Rs.)

22. Information of NARI Project (if applicable)

Name of Nodal Officer	No. of OFT on specified aspects	Title(s) of OFT	No. of FLD on specified aspects	No. of capacity development programme on specified aspects	Total no. of farm women/ girls involved in the project	Details of Issues related to gender mainstreaming addressed through the project
Mrs. Savita Kumari,	-	-	-	6	136	-

Progress Information of NARI Project

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

SI.	Name of Nutri-Smart Village	Type of Nutrition Garden	Number	Area (sqm)	No. of beneficiaries
1.	Brahmsthan	Backyard/Kitchen	01	185sq ft	40
	Rohua Rajaram	garden/community level	01	880 sq ft	40
	Gannipur	-	01	300 sq ft	40
	Dariyapur		01	200 sq ft	40
	Berai		01	450 sq ft	40
	TOTA	AL	5		

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

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

c. Value addition in Nutri-Smart village

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

d. Training programmes in Nutri-Smart village

Name of Nutri Smart Village	Area of Training	No of courses	No. of beneficiaries	
Brahmsthan	Kitchen gardening,	1	40	
Rohua Rajaram	Health, nutrition and	1	40	

Gannipur	nutritive food training	1	40
Dariyapur	for farmer women	1	40
Berai		1	40

e. Extension activities under NARI Project

SI.	Name of Activity	Number		Total			
No.		of	Ν	Male	Fen	nale	
		Activities	Other	SC/ST	Others	SC/ST	
1.	Poshan Vatika training for farmers and farm women at KVK, Saraiya, Muzaffarpur	1	0	0	10	3	15
2	Health and nutrition training for pregnant and lactating mother at Bayadih village	1	0	0	18	7	25
3	Health and nutrition training for mother & her six year girl child at Ratanpura, Motipur	1	0	16	0	9	25
4	Waste bag method of kitchen gardening for Extension functionaries at KVK, Saraiya	1	5	0	25	5	30
5	Health, nutrition and nutritive food training for farmer women at Dukhan Saraiya village	1	0	0	21	4	25
6	Mobile advisory service/ monitoring of kitchen garden for selected anganwari center of Muzaffarpur	5	0	1	4	1	6
7	Exposure visit of farmers to KVK nutrigarden	2	4	2	49	25	80
	Total	12	9	19	127	54	206

Photograph of NARI Project



Critical input distribution and Training programmes in Nutri-Smart village under NARI project

23. Activities under KSHAMTA

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

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

Krishi Kalyan Abhiyan- I/II A. Training

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

B. Distribution of seed/ planting materials/ input/ others
N		Т	otal quantity	/ distribı	ıted		Ν	No. of	far	mers	beno	efited	l		No. of other officials
Name of programme	No. of Programme	See Planting d material		Input	Other (kg/	S	С	S	Г	Oth s	ner	er Total officials (except KVK) F M F T programme			
		(q)	(q) (lakh)		No.)	Μ	F	Μ	F	Μ	F	Μ	F	Т	programme
KKA-I															
KKA-II															

C. Livestock and Fishery related activities

			Activitie	s performed			I	No. o	f far	mers	bene	fited			No. of
Name of program me	No. of Program me	No. of	No. of	Feed/ nutrient	Any other (Distributi	S	С	ST Others			ners	Total			other officials (except
		animals vaccinate d	animals deworme d	supplemen ts provided (kg)	on of animals/ birds/ fingerlings) [No.]	М	F	М	F	М	F	М	F	Т	KVK) attended the program me
KKA-I															
KKA-II															

D. Other activities

			I	No. o :	f far	mers	bene	efited	l		No. of other officials (except KVK)
Name of programme	Activitie s	S	С	S	Г	Oth s	ner		Fota	l	attended the programme
		Μ	F	Μ	F	Μ	F	Μ	F	Т	
KKA-I											
KKA-II											

Krishi Kalyan Abhiyan- III

No. of villages covered	No. of animal inseminated	No. of farmers benefitted									A ath an if amo
		SC		ST		Others		Total			Any other, if any
		Μ	F	Μ	F	Μ	F	Μ	F	Т	(pr. specify)

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

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

Project Details

1. Climate Resilient Agriculture Program-2022

Climate Resilient Agriculture Program sanctioned by the Bihar Government has been extended to KVK Saraiya for its efficient trials and implementation. KVK Saraiya under this program have been trying to extend its services to the nook and corners of the areas under its surveillance and have been successful in its endeavors in upgrading the farmers knowledge, field practices and activities from the traditional to the modern ways of agriculture.

Three villages **Dwarikanathpur, Bhagwatpur and Anantkarja** under the **Marwan Block** have been selected for the demonstration trials under CRA Project. Seeds, fertilizers, insecticides and knowledge of other essential inputs and practices are imparted to the farmers. For the Rabi season trials critical inputs such as **Pendimethalin, Broadway, Sulphur, Saaf, thiomethaxam, spinetorum, micronutrients and biofertilizers (Rhizobium & PSB)** has been distributed. Several **exposure visits** from the non-CRA villages to the fields of CRA villages have been done and are continuously being conducted for the awareness of the farmers.



Location of the villages under KVK, Saraiya, Muzaffarpur district in CRA Project

The details of the crops, area and number of demonstrations for the Summer, Kharif and Rabi season crop trials are given below:

Summer season 2022 trials 2022:

Interventions	Physical Target (Acre)	No. of Beneficaries	Target Achieved (Acre)	Achievement (%)
Moong bean	150	210	150	100
Laser land laveler	60	80	60	100
Total	210	290	210	100

INPUT DETAILS FOR SUMMER 2022:

Seed Varieties

✓ Moong bean – IPM-02-14, IPM-205-7 (Virat)

Critical input

✓ Seed treatment – Rizobium + PSB

✓ Fungicide- Mancozeb (63%) and Carbendazim (12%) WP

Result summer 2022:

Crops	Grain yie	eld (q/ha)	Straw yie	eld (q/ha)	Net Retu	rn (INR)	B:C Ratio		
Ciops	Demo	Check	Demo	Check	Demo	Check	Demo	Check	
Moong bean	12.45	10.25	21	15	63590.2	41759	2.44	1.35	

Seasonal details of kharif 2022:

Interventions	Physical Target (Acre)	No. of Beneficaries	Target Achieved (Acre)	Achievement (%)
Direct Seeded Rice	240	480	240	100
Raised bed planting of Arhar	5	18	5	100
Intercropping of maize with Arhar	5	10	5	100
Alternate wetting/ drying irrigation in rice	35	70	35	100
Water harvesting and field bunding in rice	25	50	25	100
Raised Bed Planting of Maize	10	20	10	100
Nutrient expert/green seeker based nutrient management in rice	15	30	15	100
Community Irrigation in rice	15	30	15	100
Total	350	708	350	100

Input detail Kharif 2022:

Seed Varieties:

✓ Paddy - (Long duration) – Rajshree, R. Manshuri, R. Sweta

(Short duration) - R. Bhagwati, R. Neelam, Sahbhagi, Prabhat

- ✔ Maize RMH-4
- ✔ Arhar R. Arhar-1

Critical inputs

- ✓ Seed treatment Rizobium + PSB
- ✔ Fungicide– Mancozeb (63%) and Carbendazim (12%) WP
- ✓ Maize Pendimethalin 30% EC, Spinetoram 11.7 w/w SC, Sulphur 800g/L SC

Kharif result 2022:

			Grain y (q/h	yield a)	Straw (q/	/ yield ha)	Net Re (INF	turn R)	B : C Ratio	
Сгор	Variety	Technology	Demo	Loca l chec k	Demo	Local check	Demo	Local check	Demo	Local check
	Rajshree	Direct Seeded Rice	39.90	32	53	43	50154.16	34030	1.60	1.09
Rice (DSR)	R. Mahsuri	(ZT+Drum seed) Alternate wetting/ drying irrigation in rice	44.77	36	57	46	60076.20	42190	1.92	1.35
	R.Bhagwati	Direct Seeded Rice (ZT+Drum seed)	33.02	27	43	42	36117.69	23830	1.16	1.00
	R. Neelam	Direct Seeded Rice (ZT+Drum seed)	42.76	35	48	42	55975.02	40150	1.79	1.28
Rice (DSR)	Hy Swarna Gold 3335	Direct Seeded Rice	60.16	42	62	49	91476.40	54430	2.93	1.74
Maize	Ну 3355	RB Maize	62	46	128	107	86430	54190	2.75	1.36

Intercroppin g (Maize)	Ну 3355	Maize	60.45	43	122.56	102	83367.2	48145	2.17	1.25
Arhar	R. Arhar	RB Arhar	Crop standing							

Rabi season crop trials 2022-2023

Interventions	Physical Target (Acre)	No. of Beneficiaries	Target Achieved (Acre)	Achievement (%)
Zero tillage/Raised bed of wheat	225	284	225	100
Raised/Flat bed planting of maize	42	118	42	100
Intercropping of maize with potato	18	40	18	100
Zero tillage of lentil	30	105	30	100
Raised/Flat bed planting of mustard	30	132	30	100
Potato based farming system	02	26	02	100
Total	377	740	377	

Input details for Rabi 2021

Seed Varieties

✔ Wheat – HD2967, DBW252, DBW39, DBW187

✔ Maize – SMH 5533

✔ Potato – Kufri Mohan

✓ Lentil – IPL 316

✓ Mustard – R. Shufalam and Pusa 27

Critical inputs

- ✓ Wheat Pendimethalin 30%, Micronutrient, Thiomethaxam 30 FS.
- ✓ Maize Pendimethalin 30% EC, Spinetoram 11.7 w/w SC, Sulphur 800g/L SC.
- ✓ Potato Carbendazime+Mancozeb 50% WP (Fungicide)
- ✓ Lentil Pendimethalin 30% EC Carbendazime+Mancozeb 50% WP (Fungicide)
- ✓ Mustard Carbendazime+Mancozeb (Fungicide), (Insecticide), Sulphur 800g/L SC.

Details of rabi trials 2022:

Interventions	Physical Target (Acre)	No. of Beneficiaries	Target Achieved (Acre)	Achievement (%)
Zero tillage/Raised bed of wheat	225	363	225	100
Raised/Flat bed planting of maize	42	145	42	100
Intercropping of maize with potato	18	64	18	100
Zero tillage of lentil	30	51	30	100
Raised/Flat bed planting of mustard	30	54	50	100
Potato based farming system	02	12	03	100
Nutrient expert/green seeker based nutrient management (Wheat)	15	28	15	100
Community irrigation/subsurface irrigation system (Wheat)	15	25	15	100
Total	377	740	377	100

RESULTS (RABI 2022)

Cron		Grain yiel	d (q/ha)	Straw (q/ha)	yield	Net Retu	rn (INR)	B : C Ratio				
Сгор	Technology	Demo	Local check	Demo	Local check	Demo	Local check	Demo	Local check			
Wheat	Zero tillage		-						-			
Lentil	Zero tillage											
Mustard	Zero tillage		CROP STANDING									

Maize	Raised Bed Planting
Maize	Intercropping of maize with potato
Potato	Potato based farming system
Wheat	Community irrigation

Exposure Visit And Travelling Seminars

Date	Venue	CRA Village	Participants	No. of farmers participated
4-5.03.2022	KVK Rohtash	Dwarikanathpur,Anant Karja and Bhagwatpur	Dr. Anupam Adarsh	45
14.03.2022	BISA	Dwarikanathpur,Anant Karja and Bhagwatpur	Tarun Kumar	150
23.09.2022	KVK Siwan	Dwarikanathpur,Anant Karja and Bhagwatpur	Dr. Rajneesh Singh & Tarun Kumar	45
30.09.2022	KVK East Champaran	Dwarikanathpur,Anant Karja and Bhagwatpur	Dr.Rajneesh Singh &Tarun kumar	45
12.11.2022	Kisan Mela	Dwarikanathpur,Anant Karja and Bhagwatpur	All KVK'S scientists.	300
10.01.2023	KVK Saraiya	KVK Saraiya farm long term cropping system experiments	Dr. S.K Gupta, Dr. Rajneesh Singh , Dr. Tarun Kumar & Kajol Kumari	170

Capacity building 2022:

S. No.	Details of the Program	Number of events	Male	Female	Total number of Benefi
1.	Physically (Offline)	23	684	164	848
2.	Virtual mode	0	0	0	0
Total		23	684	164	848

Some glimpses of CRA practices:



Exposure visit of farmers under long term croppir system at KVK Saraiya farm.

Distribution of sulphur at CRA village



Zerotillage wheat sowing at dwarikanathpur village

Kisan mela organized at CRA village.



Maize and potato intercropping

Zero tillage mustard

Long term cropping experiment under CRA programme at KVK farm:

S. No.	Nome of Cronning System	De	monstrated Va	rieties
5. NO.	Name of Cropping System	Kharif	Rabi	Summer
1.	DSR Rice-CT Wheat-ZT Moong	R. Rajshree	HD 2967	IPM-205-7 (Virat)
0.	DSR Rice-ZT Wheat- ZT Moong Bean	R. Mansuri	HD 2967	-do-
0.	DSR Rice - Potato+ Maize- ZT Moong Bean	R. Bhagmati	K.Mohan	-do-
0.	DSR Rice-Maize-ZT Moong Bean	R. Neelam	SNH 5533	-do-
0.	DSR Rice- ZT Mustard-Moong Bean	R. Neelam	R. Sufalam	-do-
0.	DSR Rice- ZT Lentil -ZT Moong Bean	HY. Swarn Gold 3355	IPL 316	-do-
0.	DSR Rice-Potato + Maize -ZT Moong Bean	R. Rajshree	K.Mohan	-do-
0.	RB Maize-Mustard-ZT Moong Bean	SNH 5533	R. Sufalam	-do-

0.	RB Maize-ZT Lentil-ZT Moong Bean	SNH 5533	IPL 316	-do-
0.	Arhar - ZT Arhar- ZT Moong Bean	R. Arhar	R. Arhar	-do-

Action photographs of long -term cropping system:





Project Details : District Agrometeorological Unit (DAMU)

1. Title of the Project: District Agrometeorological Unit (DAMU)

Name of Blocks: 16 Block (Aurai, Bandra, Baruraj (Motipur), Bochaha, Dholi (Moraul), Gaighat, Kanti, Katra, Kurhani, Marwan, Minapur, Musahri, Paroo, Sahebganj, Sakra, Saraiya)

Year of start of AAS at DAMU: 2019

4. Name and address with landline and mobile numbers along with STD code (also provide e-mail address) of head of ATARI, Project Coordinator, Head of the Krishi Vigyan Kendra (KVK)

Designation	Name	Address	STD code Telephone no. & Fax	Email-id
Head of KVK	Dr. Santosh Kumar Gupta	Krishi Vigyan Kendra, Saraiya (Muzaffarpur) Goraul Rd, Sadipur, Dist Saraiya – 843126 (Bihar) India	709197583	head.kvk.saraiya@rpcau. ac.in
Project Coordinator (PC)	Dr. Tarun Kumar	Krishi Vigyan Kendra, Saraiya (Muzaffarpur) Goraul Rd, Sadipur, Dist Saraiya – 843126 (Bihar) India	7725021495	tarun.iirs88@gmail.com
SMS	Nil	Nil	Nil	Nil
AgroMet Observer (AO)	Nil	Nil	Nil	Nil

Block level weather forecast verification

There are 16 Blocks in Muzaffarpur district. These blocks were grouped in to five clusters on the basis of homogeneous meteorological conditions, major soil type and major cropping system. These clusters are as following –

- 1. Saraiya cluster
- 2. Minapur cluster

- 3. Sahebganj cluster
- 4. Musahari cluster
- 5. Garol cluster



Figure: Block level weather forecasting cluster.



Figure: Block wise farmer join the what's app group under Damu Project Forecast verification

Forecast verification has been undertaken for important crops growing seasons prevalent in East Champaran viz., summer (1st March to 10th June), Monsoon (11th June to 1st week October), Post monsoon (8th October to 1st November) and winter (December to February). The rain gauge installed at different blocks and use to verify the forecasts recorded daily Rainfall data.

Feedback from Farmer

The effective survey was conducted at mid-season and after harvesting of crop from different blocks of Muzaffarpur district. The survey was completed based on a feedback questionnaire, personal contact, mobile contact from farmers in which the usefulness and impact of Agromet Advisory Services was assessed. This agricultural weather advisory was delivered by sending message to the farmers' WhatsApp number, email, facebook, newspaper and personal number. It includes weather based agricultural advice to farmers, including weather related information for the next 5days and agricultural work such as crop management, proper use of irrigation, quantity of fertilizer and time of planting and method of planting, measures to avoid diseases and pests were informed. Feedback taken by 50 farmers. The finding of the study have been presented under following heads

1.Distribution of the respondents by their availability of communication media:-

S.N.	Category	No. of respondents(50)	Percentag e
1	Whatsapp	50	80
2	Personal contact	40	75

4. Rating of Agromet Advisory Bulletin by farmers:-

S.N.	Rating	No. of respondents (50)	Percentag
			e
1.	Good	37	74
2.	Satisfactory	10	20
3.	Irrelevant	3	6

	Feedback Format																	
S. L. N	Name of the Farme rs	Mobile Number	Village	Block	District							Query						
						1. From where agro adviso ry is receiv ed (Name the source)	2. Which crop/s is/are present in the field	3. Which weather paramete r is beneficia l for your crop	4. Whether the advisory bulletin is benefici al (if yes then reason)	5. Wheth er these adviso ry bulleti n is of no use (if yes then reason)	6. Are the forecas ted weathe r conditi on is matche d with realize d conditi on (if yes then name the param eter)	7. Which suggestio n you look more in agro advisory	8. What informati on is not present in Agro advisory	9. Wh at info rmat ion is not incl ude d in advi sory after man y remi nder	10. Any FAP is done in your villag e (if yes than what are the benefi ts)	11. Before these agro advisory , from where you got informat ion about weather (source and which one is more useful)	12. Any suggestio n for improve ment	13. Have you visite d in KVK
1	Dr. Rama Shanka r Singh	9934920 015	Chainpur	Mad wan	Muzaffar pur	Whats up	Rice and Wheat	Rainfall	yes because rainfall data is necessar y for crop	Useful l	Rainfa Il, Cloud Cover and Wind Speed	Accuracy of rainfall data	No response		Yes	Whats up and Personel Contact	He prefered Short message along with PDF	Yes (Man y times).
2	Mr. Rakesh Kumar	9431441 605	Dawarikanat hpur	Mad wan	Muzaffar pur	Whats up	Rice and Wheat	Rainfall and Tempara ture	yes because rainfall data is necessar y for crop	Useful l	Rainfa 11	Accuracy of rainfall data	No response		yes	Whats up and Personel Contact	Prefer short message than PDF because of net problem	yes
3	Rajesh Ranjan	9771929 903	Bhagwatpur	Mad wan	Muzaffar pur	Whats up	Rice and Wheat	Rainfall and Cloud Cover	yes because rainfall data is necessar y for crop	Useful l	Cloud Cover	Accuracy of rainfall data	No response		yes	Whats up and Personel Contact	No suggestio n	yes

3	Rakesh Kumar	9431441 605	Dawarikanat hpur	Mad wan	Muzaffar pur	Whats up	Rice and Wheat	Rainfall and Cloud Cover Tempera ture	yes because rainfall data is necessar y for crop	Useful l	Cloud Cover	Accuracy of rainfall data	No response	yes	Whats up and Personel Contact	No suggestio n	yes
4	Harihar Pandit	8521306 178	Chakna	Sarai ya	Muzaffar pur	Whats up and preson nel talk	Rice and Wheat	Rainfall and Cloud Cover	yes because rainfall data is necessar y for crop	Useful l	Rainfa Il, Cloud Cover and Wind Speed	Accuracy of rainfall data	No response	yes	Whats up and Personel Contact	No suggestio n	No
5	Abhish ekh	9931207 976	Pukharera	Sarai ya	Muzaffar pur	Whats up and preson nel talk	Rice and Wheat Beekeep ing	Rainfall and Cloud Cover Tempera ture	yes because rainfall data is necessar y for crop	Useful l	Rainfa Il, Cloud Cover and Wind Speed	Accuracy of rainfall data	No response	yes	Whats up and Personel Contact	No suggestio n	No
6	Dipak kumar	8094608 674	Sahebgung	Raj Huse pur ratti	Muzaffar pur	Whats up and preson nel talk	Rice and Wheat	Rainfall and Cloud Cover	yes because rainfall data is necessar y for crop	Useful l	Rainfa Il, Cloud Cover and Wind Speed	Accuracy of rainfall data	No response	yes	Whats up and Personel Contact	Please include observed rainfall data in your advisory so farmers can also get informati on about this.	Regu ral visito r of KVK
7	Manoj Kumar	9162725 199	Dhanupur	Sarai ya	Muzaffar pur	Whats up and preson nel talk	Rice and Wheat	Rainfall and Cloud Cover	yes because rainfall data is necessar y for crop	Useful 1	Rainfa ll, Cloud Cover, Wind Speed and temper ature	Accuracy of rainfall data	No response	yes	Whats up and Personel Contact	Please include short messages along with pdf.	Yes

8	Mr Durges h	9308531 526	Motipur	Motip ur	Muzaffar pur	Whats up	Rice and Wheat, Maize	Rainfall	yes because rainfall data is necessar y for crop	Useful l	Rainfa Il, Cloud Cover and Wind Speed	Accuracy of rainfall data	No response	Yes	Whats up and Personel Contact	He prefered Short message along with PDF	Yes (Man y times).
9	Sujit Kumar	8873643 031	Saraiya	Sarai ya	Muzaffar pur	Whats up	Rice and Wheat, Maize vegetabl e	Rainfall Wind And Temp	yes because rainfall data is necessar y for crop	Useful 1	Rainfa Il, Cloud Cover and Wind Speed	Accuracy of rainfall data	No response	Yes	Whats up and Personel Contact	He prefered Short message along with PDF	Yes (Man y times).
10	Rakesh Kumar	9431441 605	Dawarikanat hpur	Mad wan	Muzaffar pur	Whats up	Rice and Wheat	Rainfall and Cloud Cover	yes because rainfall data is necessar y for crop	Useful 1	Cloud Cover	Accuracy of rainfall data	No response	yes	Whats up and Personel Contact	No suggestio n	yes



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

Kisan mela organized at KVK, Saraiya



DEE, and Directore research, Sir RPCAU, PUSA visited of KVK, farm

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Potato Sowing by potato planter

Wheat sowing by Happy seeder

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Travelling seminar KVK, Piprakhothi and Siwan under CRA program

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Dr. Rajendra Prasad Central Agricultural University, Pusa (Samastipur), Bihar

KRISHI VIGYAN KENDRA, SARAIYA, MUZAFFARPUR