ANNUAL REPORT

January- December 2021

KRISHI VIGYAN KENDRA,

SARAIYA, MUZAFFARPUR, BIHAR

Dr. Rajendra Prasad Central Agricultural University,
Pusa (Samastipur) Bihar – 848 125

ANNUAL REPORT

January- December 2021

Compiled and Edited by

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Krishi Vigyan Kendra, Saraiya, Muzaffarpur

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Dr. Rajendra Prasad Central Agricultural University,
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PROFORMA FOR ANNUAL REPORT 2021 (1st January- 31st December 2021)

1. GENERAL INFORMATION ABOUT THE KVK

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

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

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

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

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Santosh Kumar Gupta	Village+ P.O.- Saraiya	7091974583	skgupta15@rediffmail.com

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 2021)

Sl. 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	135800/- 37400-67000	28/12/2020	Permanent	OBC
2.	Subject Matter Specialist	Dr.Savita Kumari	SMS	Home Science	15600-39100 107300	13/07/2001	Permanent	OBC
3.	Subject Matter Specialist	Dr.Kamlesh Kumar Singh	SMS	Soil Science	15600-39100 92600	12/06/2009	Permanent	Others
4.	Subject Matter Specialist	Mr.Hem Chandra Chaudhary (Relieved for Ph.D)	SMS	Plant Pathology	15600-39100 82600	18/06/2009	Permanent	OBC
5.	Subject Matter Specialist	Dr. Tarun Kumar	SMS	Soil and water Engineering	15600-39100 59500	12/10/2018	Permanent	SC
6.	Subject Matter Specialist	Vacant	-	-	-	-	-	-
7.	Subject Matter Specialist	Vacant	-	-	-	-	-	-
8.	Programme Assistant	Vacant	-	-	-	-	-	-
9.	Computer Programmer	Vacant	-	-	-	-	-	-
10.	Farm Manager	Mr. Anupam Adarsh	Farm manager	Horticulture	9300-34800 38700	27-11-2017	Permanent	Others
11.	Accountant / Superintendent	Kumari Pratibha	Assistant	-	9300-34800 38700	22-11-2017	Permanent	SC
12.	Stenographer	Mr. Suman Kumar	Stenographer	-	25500-81100 27100		Permanent	OBC

13.	Driver(Jeep)	Mr. Ram Ekbal Singh	Jeep Driver		5200-20200	13-03-2003	Permanent	Others
14.	Driver	Vacant						
15.	Supporting staff	Rajiv Kumar	SSS		5200-20200 18000/-	13-05-1998	Permanent	OBC
16.	Supporting staff	Ram Vriksh Sukala	SSS		5200-20200 41800/-	11.06.2021	Permanant	others

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	1.30
2.	Under Demonstration Units	0.34
3.	Under Crops	7.164
4.	Orchard/Agro-forestry	0.32
5.	Others with details	0.876
	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 started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq. m)	Under use or not*	Source of funding
1.	Administrative Building					Yes		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
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	GOI, MOA&FW
23.	Beekeeping demo unit					Yes		Under use	GOI, MOA&FW
24.	NADEP unit					Yes		Under use	GOI, MOA&FW

* 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	Good
MSTL Van	2017	33.28	4273	Good
Motorcycle 1(BR06AY-3940)	2016	0.48	6559	Good
Motorcycle 2(BR06AY-3941)	2016	0.48	7309	Good
Bolero SLE Power plus	2018	6.12	35865	Good
John Deere Tractor	2019	6.72	3167	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
Physical balance	26.02.2006	7345.00	Non Functional	ICAR
Chemical electronic balance	26.02.2006	110740.00	Non Functional	ICAR
Beam scale with all weight	24.04.1999	4146.00	Good	ICAR
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 machine(1)	30.03.2011	9500.00	Good	ICAR
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 reaper	13.03.2012	107277.00	Non functional	RKVY
Seed processing Machine	30.09.2009		Non functional	Govt. of Bihar
Happy seeder	31.07.2020		Good	DRPCAU, PUSA
Zero till cum fertilizer machine	31.07.2020		Good	DRPCAU, PUSA
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
Laser Land leveler	18.03.2021	248000	Good	DRPCAU, PUSA
Multi Crop Planter	28.07.2021	77549	Good	DRPCAU, PUSA
Disk Plough	05.07.2021	94657	Good	DRPCAU, PUSA
Hydroulic Tractor Trailer	05.07.2021	143400	Good	DRPCAU, PUSA
Rotavater	05.07.2021	96240	Good	DRPCAU, PUSA
Cultivator	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 fertilizer	01.12.2021	72000	Good	DRPCAU, PUSA
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 (Richo)	23.03.2012	74693.00	Need repair	ICAR
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
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

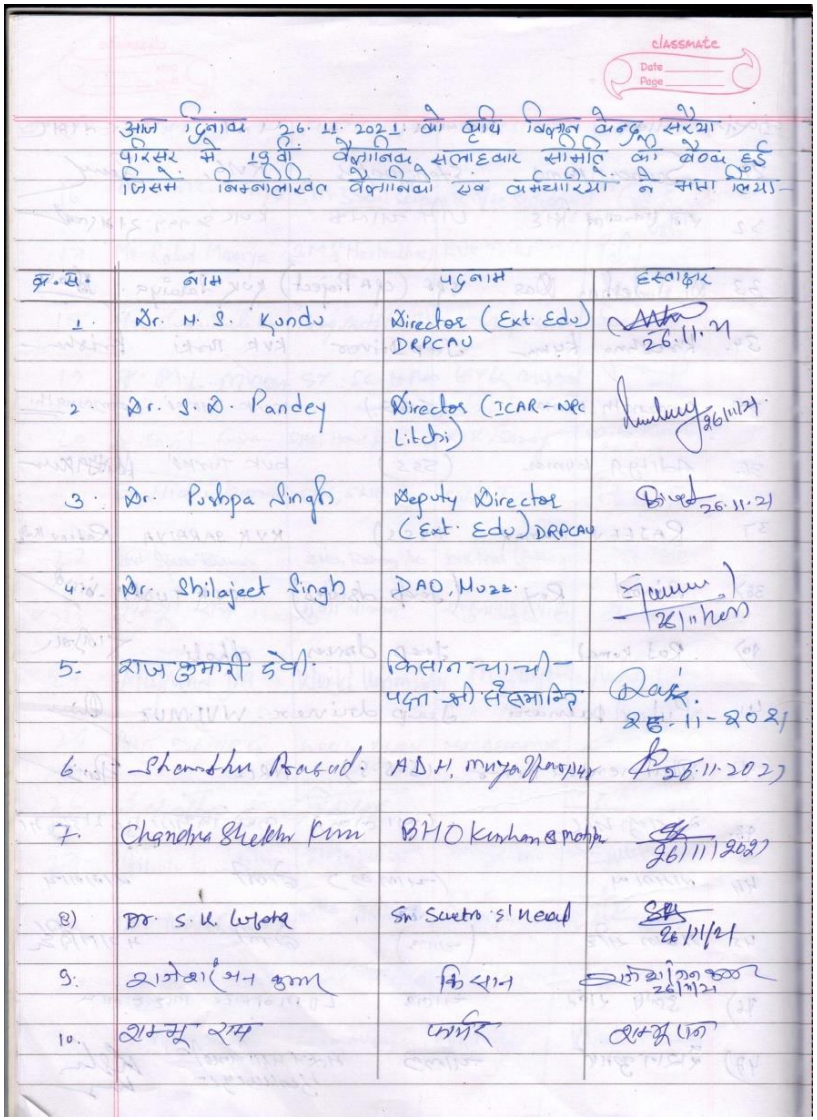
Zero tillage machine	02.04.2007		Non functional	ICAR
Sprinkler system	28.03.2009	30000.00	Good	ICAR
Disc Harrow	28.12.2011	27825.00	Good	ICAR
Rotavator	29.02.2012	59000.00	Good	ICAR
Weeder	28.11.2006	170.00	Good	ICAR
Weeder with wheel	28.11.2006	300.00	Good	ICAR
Drum seeder	26.03.2012		Good	ICAR
Conoweeder	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

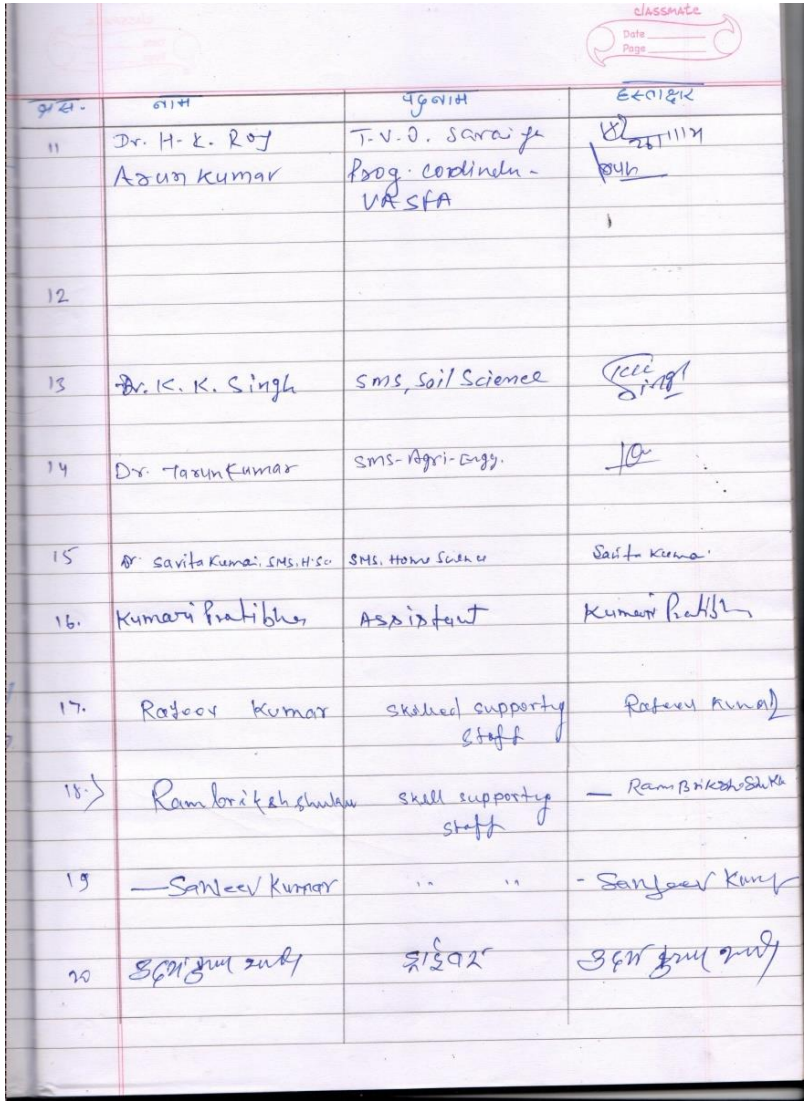
Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	23/3/2021	47	किसानों के बीच सूक्ष्म सिंचाई पद्धति हेतु जागरूकता लाने के लिए केंद्र के फॉर्म में सूक्ष्म सिंचाई इकाई स्थापित की जाएगी, साथ ही बिहार सरकार द्वारा दी जाने वाली %90 अनुदान का लाभ भी लिया जाए।	बीते वर्ष किसानो के बीच सूक्ष्म सिंचाई पद्धति का अग्रिम पंक्ति प्रत्यक्षण के अंतर्गत प्रत्यक्षण किया गया था । जिसको देखते हुये किसानो ने 90 ड्रिप किट लगवाए। जिले मे 72 हेक्टेयर सूक्ष्म सिंचाई पद्धति और 62 हेक्टेयर स्प्रिंकलर सिंचाई पद्धति को लगवाकर लाभ उठाया। कृषि विज्ञान केंद्र मे भी बिहार सरकार द्वारा दी जाने वाली 90 : अनुदान का लाभ लेकर 2.4 एकड़ मे स्प्रिंकलर सिंचाई पद्धति लगाने का व्यवस्था कर लिया है।	
2.			जिले के किसानों / महिला किसानों के बीच फलों एवं सब्जियों के मूल्यवर्धन विषय पर प्रशिक्षण के लिए उचित तकनीक अपनाते हुए प्रशिक्षण की व्यवस्था केंद्र पर की जाए।	फलों एवं सब्जियों को सूखा कर मूल्यवर्धन करने हेतु इलैक्ट्रिक ड्रायर केंद्र पर उपलब्ध हो चुका है,जो एक बार मे दस किलो सब्जी सूखा सकता है। सब्जियों (मशरूम) को सुखा कर मूल्यवर्धित उत्पाद बनाने का प्रशिक्षण केंद्र पर दी गई है।	
3.			फॉल आर्मी वार्म की समस्या के निदान के लिए विश्वविद्यालय से विशेषज्ञ बुलाकर प्रशिक्षण दी जाए।	फॉल आर्मी वार्म की समस्या के निदान के लिए सहायक निदेशक पौधा संरक्षण, मुजफ्फरपुर के सहयोग से प्रशिक्षण की व्यवस्था की गई है जिसमे कुल प्रक्षिणार्थियों की संख्या 52 थी।	
4.			सोलर ट्री के माध्यम से प्रक्षेत्र पर सिंचाई हेतु, सोलर ट्री पैनल में हुई तकनीकी खराबी को तकनीशियन की सहायता से जल्द ही ठीक कर लिया जाए।	निर्देशानुसार सोलर ट्री अप्रैल माह में ठीक करा लिया गया था, जिससे फार्म की सिंचाई भी की गई थीं ।	

5.			पशुपालन विषय पर इच्छुक किसानों को प्रशिक्षण देने हेतु कृषि विज्ञान केंद्र बिरौली के पशुपालन विशेषज्ञ द्वारा प्रशिक्षण की व्यवस्था केंद्र पर की जाएगी। इसी प्रकार मत्स्य पालन, विषय पर प्रशिक्षण की व्यवस्था हेतु मत्स्य पालन विशेषज्ञ मुरौल से संपर्क स्थापित कर प्रशिक्षण की व्यवस्था होगी।	एक ई. चौपाल का आयोजन पशु स्वास्थ्य प्रबंधन एवं प्रजनन पर केंद्र द्वारा की गई है। विश्व दुग्ध दिवस के अवसर पर आयोजित आभासी सेमिनार मे वरीय वैज्ञानिक एवं प्रधान ने पशुपालन विषय पर प्रशिक्षण दिया। पशुपालन विषय पर तीन दिवसीयएपाँच प्रशिक्षण केंद्र द्वारा करने का निर्णय लिया गया हैए जिसकी राशि अटारी पटना द्वारा निर्गत की जाएगी। किसानो के जरूरत अनुसार मत्स्य पालन, विषय पर प्रशिक्षण की व्यवस्था केंद्र पर की जाएगी।	
6.			केंद्र पर प्रशिक्षण कक्ष के मरमम्त/निर्माण हेतु निदेशक आत्मा से पत्राचार किया जाएगा तथा उक्त मद में राशि की उपलब्धता होने पर इस कार्य को संपादित किया जाएगा।	इस विषय पर निदेशक आत्मा से पत्राचार किया जा चुका हैए राशि अभी तक उपलब्ध नहीं हुई है।	
7..			किसी भी प्रकार की डाटा प्रस्तुतीकरण के पूर्व उसमें किसी प्रकार की त्रुटि को भलीभांति **जाँच** कर ली जाए।	अनुपालन किया गया है।	
8.			मीटिंग में आए अन्य विभागों के पदाधिकारियों/ प्रगतिशील किसान के लिए एक लघु रिपोर्ट तैयार की जाएगी, ताकि वैज्ञानिक सलाहकार समिति की बैठक मे आये सभी लोग, सभी बिंदुओं को आसानी से समझ सके।	अनुपालन किया गया है।	

**Salient recommendation of SAC in bullet form*



क्र.सं.	नाम	पदनाम	हस्ताक्षर
1.	Dr. N. S. Kundu	Director (Ext. Edu) DRPCAU	26.11.21
2.	Dr. S. D. Pandey	Director (ICAR-NAE Lucknow)	26/11/21
3.	Dr. Pushpa Singh	Deputy Director (Ext. Edu) DRPCAU	26.11.21
4.	Dr. Shilajeet Singh	DAO, Muzz.	26/11/2021
5.	राज कुमारी देवी	किसान-चाची-पद्मश्री सम्मानित	26.11.2021
6.	Shambhu Prasad	ADH, Muzaffarpur	26.11.2021
7.	Chandra Shekhar Kum	BHO Kishanganj	26/11/2021
8)	Dr. S. K. Lahiri	Sr. Scientist & Head	26/11/21
9.	[illegible]	[illegible]	[illegible]
10.	[illegible]	[illegible]	[illegible]



क्र.सं.	नाम	पदनाम	हस्ताक्षर
11	Dr. H. K. Roy Arun Kumar	T.V.O. Saraiya Prog. Coordinator - VASFA	26/11/21
12			
13	Dr. K. K. Singh	SMS, Soil Science	
14	Dr. Tarun Kumar	SMS-Agri-Engg.	
15	Dr. Savita Kumari, SMS, H.Sc.	SMS, Home Science	Savita Kumari
16.	Kumari Pratibha	Assistant	Kumari Pratibha
17.	Rajeev Kumar	Skilled supporting staff	Rajeev Kumar
18.	Rambriksh Shukla	Skill supporting staff	Rambriksh Shukla
19	Sanjeev Kumar	" "	Sanjeev Kumar
20	[illegible]	[illegible]	[illegible]

Proceeding of SAC conducted on 26.11.2021 (20 Participant)

वरीय वैज्ञानिक एवं प्रधान द्वारा 18वी बैठक की कार्यवाही से लेकर 25–11–2021 तक का प्रगति प्रतिवेदन एवं अगले वर्ष (2021–2022) का प्रस्तावित कार्यक्रम प्रस्तुत किया गया जिस पर समिति के माननीय सदस्यों द्वारा निम्नलिखित सुझाव दिए गये।

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 है।कृषि 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 अंत मे किए गए 2020 - 21लीची स्कवैश के सांद्रता का मूल्यांकन को (डिग्री ब्रिक्स) अग्रिम पंक्ति प्रत्यक्षन हेतु उपयुक्त माना गया।

3 कदन्न का अंतर्राष्ट्रीय वर्ष मे मनाने की 2023योजना 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 वैन में MSTL कार्यरत बस चालक एवं स्पोर्टिंग स्टाफ द्वारा मिट्टी जांच का कार्य निरंतर किया जाय, ताकि किसानो को मृदा कार्ड समय पर मिल सके।

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।

सदस्य द्वारा दिये गए सुझाव के आधार पर कार्यवाही

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

कार्यवाही द्वारा : विषय वस्तु विशेषज्ञ कृषि अभियंत्रण

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

कार्यवाही द्वारा : विषय वस्तु विशेषज्ञ गृह विज्ञान

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

कार्यवाही द्वारा : विषय वस्तु विशेषज्ञ गृह विज्ञान

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 ।

कार्यवाही द्वारा : विषय वस्तु विशेषज्ञ कृषि अभियंत्रण

5. कृषि विज्ञान केंद्र सरैया, मुजफ्फरपुर 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।

कार्यवाही द्वारा : विषय वस्तु विशेषज्ञ कृषि अभियंत्रण

6. वैन TSLM 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।

कार्यवाही द्वारा : विषय वस्तु विशेषज्ञ मृदा विज्ञान

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

कार्यवाही द्वारा : प्रक्षेत्र प्रबंधक

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 ।

कार्यवाही द्वारा : विषय वस्तु विशेषज्ञ गृह विज्ञान

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

कार्यवाही द्वारा : वरीय वैज्ञानकि एवं प्रधान

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,

कार्यवाही द्वारा : प्रक्षेत्र प्रबंधक

अंत में डॉ0 के0 के0 सिंह द्वारा वैज्ञानिक सलाहकार समिति के अध्यक्ष, सम्मानित सदस्यों, वैज्ञानिकों, किसानों एवं कर्मचारियों का धन्यवाद ज्ञापन किया गया तथा निदेशक प्रसार शिक्षा डॉ0 एम0 एस0 कुण्डु ने समापन संबोधन में वरीय वैज्ञानिक एवं प्रधान, वैज्ञानिकों एवं केन्द्र के सभी तकनीकी विशेषज्ञों को अच्छा कार्य करने की बधाई दी।

वरीय वैज्ञानकि एवं प्रधान
कृषि विज्ञान केन्द्र, सरैया, मुजफ्फरपुर

निदेशक प्रसार शिक्षा
डॉ0 रा0 प्र0 के वि0,पूसा, समस्तीपुर

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

Sl. No.	Items	Information	
1	Major Farming System/enterprise	Cereal based farming system (Rice/Wheat/ Maize)	
		Pulses based farming system (Black gram/Pigeon pea/ Green gram/ Chick pea)	
		Oilseed based farming system (Sesamum / Mustard/Suflower/Linseed)	
		Agri –Horti. Based farming system	
		Livestock Rearing	
		Bee-keeping	
		Mushroom cultivation	
		Zero-tillage	
		Vermi-composting	
		Fisheries	
		Cereal based farming system (Rice/Wheat/ Maize)	
2	Agro-climatic Zone	Zone 1	
3	Agro ecological situation	Rain fed upland saline	• Salinity is major problem • Crops – Paddy, Wheat, Sugarcane, Pointed gourd, Water melon and orchard.
		Irrigated upland	• Calcareous, loamy silt • Paddy, Sugarcane, Potato, Tobacco, Ginger, Rabi Maize, Turmeric, Green vegetable, Chilies • Dominance of vegetables.
		Rain fed upland	• Calcareous loamy silt • Paddy, Sugarcane, Kharif Maize, Mustard, Chilli, fruits plant- Litchi, Mango and citrus.
		Irrigated medium land	• Calcareous loamy soil • Cereals, Sugarcane, Summer Moong • Water logging problem
		Lowland	• Low lying areas, inundated from July to November suitable for fish and Agri-fish system • Wheat / Moong after recede of water

		Rain fed upland saline		• Salinity is major problem • Crops – Paddy, Wheat, Sugarcane, Pointed gourd, Water melon and orchard.	
4	**Soil type**	**Characteristics**		**Area in ha**	
	Alluvial, Sandy loam to loam in texture, calcareous in nature.	P^H – 6.5-9.5 Organic carbon – 0.20-0.75 % Available N – 150-350 Kg/ha Available P_2O_5 -- 25-50 Kg/ha Available K_2O – 100-300 Kg/ha Deficient in S, Zn & B		247721	
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	**Crop**	**Area (ha)**	**Production (MT)**	**Productivity (kg/ha)**
		Rice	33350	46148	1384
		Wheat	91868	258180	2810
		Maize	35038	54015	1542
		Gram	122	141	1156
		Lentil	907	635	700
		Pea	112	104	929
		Moong	25355	13514	533
		Arhar	492	856	1740
		Rapeseed and Mustard	4787	3777	789
		Linseed	54	47	875
		Sunflower oil	6	9	1505
		Sesamum	30	26	860
6	Mean yearly temperature, rainfall, humidity of the district	**Month**	**Temperature (^{0}C)**		**Average Rainfall (mm)** / **Average Humidity (%)**
			Min Temp.	**Min Temp.**	
		January-2021	8.1	22.8	00 / 70.5
		February -2021	10.7	25.0	00 / 69.5
		March-2021	13.5	30.3	4.2 / 59.5

		April- 2021	19	40	11.6	53
		May- 2021	24.3	34.0	282.20	73
		June-2021	26.5	36.0	401.90	70.5
		July-2021	26.0	33.6	204.1	79
		August-2021	26.1	32.7	500.00	81.5
		September-2021	25.4	33.3	127.00	80
		October-2021	19.0	32.0	359.10	70.5
		November-2021	13.3	29.0	0.0	71
		December-2021	8.8	24.3	1.4	68.5
7	Production of major livestock products like milk, egg, meat etc.	**Category**	**Population (in thousands)**	**Production**	**Category**	
		Cattle				
		Exotic	99.0	4000L/lactation	Milk	
		Indigenous	142.5	1500/lacation	Milk	
		Buffalo	138.0	2400/lacataion	Milk	
		Goats	399	2-3 kids	Litter	
		Pigs	19.2	6-8 piglet	Litter	

Note: Please give recent data only

2. b. Details of operational area / villages (2021)

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1.	Muzaffarpur (East)	Saraiya	Saraiya Pokhraira, Biadih, hatauliya Madwapakhar, Bakhara. Paigambarpur, Ambara.	Paddy, Wheat, Vegetable, Vermi-composting, Mushroom cultivation, Organic farming, Protective	Low productivity due to use of traditional variety and indiscriminate use of chemical fertilizers and bio-	Improving the Production and productivity of cereals, oilseeds and pulses Income generation

			Anandpur, Basokund, Bahilwara Ambara tej singh Basochak, Basudeo patti Ibrahimpur, Sujawal pur, Bishunpur basant urf Suba, Lakshmipur Arar, Biadih, Chitari, Rupauli Chandkewari	cultivation of vegetables Use of farm machinery like zero till seed drill, grubber, reaper etc.	pesticides Not aware about the importance of fodder crop	through mushroom and its value addition 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,	Vegetables Mushroom	Low productivity due to poor fertility of the soil	Improving the productivity of Potato, Veg., and

			Mirjapur, Narsanda, Pokhraira Harpur ganesh, Sirsiya Bujurg, Sonversa	Vermiculture Organic farming		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,	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

			Gagdishpur Dharam Mohabatpur			
6.	Muzaffarpur (East)	Sahebganj	Maugraha Asli, Jahura, Deoghra, Biswambharpur, Daha Chapara, Daria Chapara, Salempur, Vishunpur Chak Pahar	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 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 2021) 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, PRA conducted, 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.
Ratanpura	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, Income generating activities as lac bangle & soft toys, New storage technique 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, Goatary & 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.
16.	Integrated farming System.

3. TECHNICAL ACHIEVEMENTS

3. A. Summary details of target and achievement of mandatory activities by KVK during the year 2021

OFT												FLD										
No. of technologies tested:												No. of technologies demonstrated:										
Number of OFTs		Number of farmers										Number of FLDs		Number of farmers								
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement							
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
06	06	48	1	2	0	0	33	12	34	14	48	06	06	98	6	9	0	0	52	31	58	40	98

Training											Extension activities										
Number of Courses		Number of Participants									Number of activities		Number of participants								
Target	Achievement	Target	Achievement								Target	Achievement	Target	Achievement							
			SC		ST		Others		Total					SC		ST		Others		Total	
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
140	149	2800	369	280	0	0	2644	1214	3013	1494	4507	12	12	24000	2353	431	0	0	26377	4189	28730	4620	33357

Impact of capacity building											Impact of Extension activities										
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								
Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T
360	585	17	7	0	0	38	12	55	19	74	24000	33357	12	2	3	1	27	6	42	9	51

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
100	49.55	0.10	0.05

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (No)	
Target	Achievement	Target	Achievement
0	0	500	266

* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	**Number**	**No. circulated**	**No. of Research papers in NAAS rated Journals**	**Highest NAAS rating of any publication**	**Average NAAS rating of the publications**	**Details of awarded publication, if any**	**Details of Award given to the publication**
Research paper	2	Online	1	5.67	5.67	-	-
Seminar/conference/ symposia papers	3	-					
Books	1	-					
Bulletins	-	-					
News letter	12	-					
Popular Articles	6	-					
Technical reports	7	-					
TOTAL	**31**						

3.1.1 Achievements on technologies assessed and refined

OFT-1, Soil Science

1.	**Title of On farm Trial**	**Effect of brown manuring and vermicompost on low land transplanted rice (Oryza sativa L.)**
2.	Problem diagnosed	➢ No/ Irrational fertilization ➢ Low use efficiency of chemical fertilizer
3.	Details of technologies selected for assessment/refinement	
	(1)Farmers Practice (FP)	N:P:K(130-50-30,N-P_2O_5-K_2O)
	(2)Technology option-I (TO-I)	RDF (120-60-40,N-P_2O_5-K_2O)
	(3)Technology option-II (TO-II)	RDF and brown manuring @ 25 kg seed of *Sesbania* at 3 DAT + Vermicompost @ 1.0 t/ ha
4.	Source of Technology (ICAR/ AICRP/SAU/other,	RPCAU, Pusa, Samastipur, Bihar

	please specify)	
5.	Production system and thematic area	INM
6.	Performance of the Technology with performance indicators	Soil testing Initial and post harvest: pH, EC, OC, N,P, K), Growth, yield and yield parameters, Economics.
7.	Final recommendation for micro level situation	On the basis of OFT result rice crop with application of RDF and brown manuring @ 25 kg seed of Sesbania at 3 DAT + Vermicompost @ 1.0 t/ ha is suitable in Muzaffarpur district.
8.	Constraints identified and feedback for research	Farmers grow rice use No/ irrational fertilization leading to low yield and economics.
9.	Process of farmers participation and their reaction	Training and field day

Thematic Area: Intigrated nutrient management
Problem Defnition**:** No/ irrational fertilization
Low use efficiency of chemical fertilizer
Technology assessed:

Table 1. Effect of brown manuring and vermi-compost on yield and yield attributes of rice

Technology option	Yield attributes			Av. yield (q/ha)	Cost of cultivation(Rs / ha)	Gross return (Rs/ ha)	Net return (Rs/ ha)	B:C ratio
	Panicle length (Cm.)	Grains/panicle	1000 grain wt.					
Farmers practice (130-50-30 N - P_2O_5 -K_2O)	23.96	161.85	30.55	32.71	37550.00	60513.50	22963.50	1.61
TO1-RDF (120-60-40 2 N- P_2O_5-K_2O)	24.81	164.59	31.20	36.31	38500.00	67173.50	28673.50	1.74
TO2-RDF and brown manuring @ 25 kg seed of susbania at 3 DAT+ vermicompost @ 1.0t/ha	25.18	165.36	31.80	40.00	40500.00	74000.00	33500.00	1.83

SEm±	0.11	0.26	0.22	0.36	-	-	-	-
CD (P=5%)	0.33	0.77	0.80	1.08	-	-	-	-

Table 2: Effect of brown manuring and vermi-compost on soil fertility of initial and post harvest soil nutrient status

Indicators	***Soil status***	
	Initial soil status	**Soil status at after harvest**
pH	8.36	8.18
Org. carbon (%)	0.61	0.68
Av. Nitrogen (kg/ha)	320.24	345.90
Av. phosphorus (kg/ha)	23.47	25.78
Av. Potash (kg/ha)	172.81	175.82

Result: KVK conducted OFT at 10 locations of pokharaira village in Muzaffarpur district on "Effect of brown manuring and vermi-compost on low land transplanted rice (*Oryza sativa* L.)". Results of the trials indicate that application of RDF and brown manuring @ 25 kg seed of Sesbania at 3 DAT+ vermicompost @ 1.0t/ha increased the yield to 40.00 q/ha when compared to the farmers practice which yielded 32.71 q/ha. Brown manuring with vermicompost gave better yields even when compared to the followed RDF (120-60-40 2 N- P_2O_5-K_2O) which produced 36.31 q/ha. The highest net return (Rs. 33500.00/ha) and B: C ratio (1.83) was registered under RDF and brown manuring @ 25 kg seed of Sesbania at 3 DAT+ vermicompost @ 1.0t/ha followed RDF (120-60-40 2 N- P_2O_5-K_2O) and farmers practece. Only the RDF and brown manuring @ 25 kg seed of Sesbania at 3 DAT+ vermicompost @ 1.0t/ha treatments registered net positive balance of organic carbon, nitrogen, phosphorus and potassium content in soil after harvest when compared to the before sowing conditions.

OFT-2, Soil Science

1.	**Title of On Farm Trial**	Effect of Fe application at varying stages on performance of paddy under aerobic rice (DSR)
2.	**Problem Diagnose**	Low yield due to iron deficiency
3.	**Details of Technologies selected for assessment/refinement (Mention either Assessed or Refined)**	Farmers Practice (140-50-30 Kg/ha NPK) **T.O.1:** RDF (120:60:40 kg/ha NPK) **T.O.2:** RDF + $FeSO_4$ @ 0.5% + 0.25% Lime (foliar spray) **T.O.3:** RDF + $FeSO_4$ @ 1%+0.5% lime (foliar spray) at 45 and 60 DAS
4.	**Source of Technology (ICAR/AICRP/SAU/Other, please specify)**	DR.RPCAU, Pusa, Samastipur
5.	**Production System & Thematic Area**	Rice- Wheat
6.	**Performance of Technology with performance indicator**	Soil testing (Initial)-NPK, yield and yield parameters, Economics.
7.	**Final recommendation for micro level situation**	On the basis of OFT result growing of rice crop under aerobic condition (DSR) apply RDF with application of RDF + $FeSO_4$ @ 1%+0.5% lime (foliar spray) at 45 and 60 DAS is suitable in Muzaffarpur district.
8.	**Constraints identified and feedback for research**	Farmers grow of rice under DSR without application of FeSo4 and recommended dose of fertilizers leading to low yield and economics.
9.	**Process of farmers participation and their reaction**	Training and field day

Thematic Area: Intigrated nutrient management

Problem Defnition**:** Low yield due to iron deficiency

Technology assessed:

Technology option	Yield component			Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C Ratio
	Productive tillers (m^{-1})	Panicle length (cm)	Grains panicle^{-1}					
Farmers Practice	270.12	21.30	103.19	30.35	35500.00	56147.50	20647.50	1.58
T.O.1	280.51	22.36	111.21	32.71	36500.00	60513.50	24013.50	1.65
T.O.2	291.16	22.63	114.89	33.79	37060.00	62510.50	25450.50	1.68
T.O.3	301.65	23.03	120.22	35.36	38000.00	65416.00	27416.00	1.72
SEm±	2.10	0.08	0.99	0.29	-	-	-	-
CD (0.05)	6.25	0.25	2.95	0.87	-	-	-	-

Initial soil test value-pH 8.44, Ec 0.24 ds/m, OC 0.54 %, Nitrogen 293.88 kg/ha, phosphorus 25.31 kg/ha and potash 157.38 kg/ha, Fe 0.90ppm

Result

The result indicated that the RDF with application of RDF + $FeSO_4$ @ 1%+0.5% lime (foliar spray) at 45 and 60 DAS followed by two spraying at 15 days interval were recorded significantly higher yield (35.36 q/ha) followed by TO.2 and TO.1 as well as farmers practice (30.35 q/ha).The higher net returns (Rs. 27416.00 /ha) and B:C ratio (1.72) was registered TO.3 and lowest net returns were registered (Rs. 20647.50/ha and B:C ratio 1.58) from farmers practice.

OFT-3 Home Science

1.	**Title of On farm Trial**	Assessment and preparation method of Litchi Squash
2.	**Problem diagnosed**	Litchi is perishable in nature.
3.	**Details of technologies selected for assessment/refinement**	
	Farmers Practice (FP)	Sell fruits to processors at very low or throw away price

	Technology option-I	Preparation of litchi squash with 25% pulp, 40^0Brix, Acidity 0.8%, So_2 – 350 ppm
	Technology option-II	Preparation of litchi squash with 25% pulp, 45^0Brix, Acidity 1.2%, So_2 – 350 ppm
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 (refractometer), Acidity (Titration with 0.1 N Na OH), sensory score (9 point Hedonic scale)
7.	**Final recommendation for micro level situation**	Squash prepared with 45^0Brix, 1.2% acidity have more keeping quality as compare to 40^0Brix.
8.	**Constraints identified and feedback for research**	Litchi squash is prepared with high quality litchi and needs specific technology so other simple products as dried litchi flakes should also imparted among farmers, so that inferior quality may also used.
9.	**Process of farmers participation and their reaction**	Farmers participation was positive .

Thematic Area: Value addition

Problem Defnition**:** Litchi is perishable in nature

Technology assessed:

Table – 1

Technical Option	**Sensory evaluation (Hedonic Scale)**			**Change in TSS(% and Degree brix)**			**Cost of Cultivation**	**Gross income**	**Net income**	**B:C ratio**
	0 month	**3 months**	**6 months**	**0 month**	**3 months**	**6 months**				
F.P.							Rs. 30.00 (cost of fresh litchi per kg)	Rs.60.00	30.0	1:2

T.O.1 (40^0Brix)	**104**	**80**	**24**	40^0Brix	41.92^0Brix (4.8%)	42.5^0Brix (6.25%)	Rs. 60.00 (Squash prepared from one kg litchi)	Rs. 150.00	90.0	1:2.5
T.O.2 (45^0Brix)	**88**	**84**	**70**	45^0Brix	46.14^0Brix (2.5%)	47.35^0Brix (5.2%)	Rs. 62.00 (Squash prepared from one kg litchi)	Rs. 150.00	88.0	1:2.4

Result – The result showed tthat Litchi squash with 45^0 Brix and 1.2 percent acidity scored 70 on Hedonic scale and change in TSS percentage was also less i.e. 5.25% as compared to T.o.1., so it is better for storage purpose too. The B:C ratio of farmer practice is less in compare to T.O.1 and T.O.2.

Observing TSS % with refractometer and prepared Litchi squash

OFT-4, 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**	
	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**	Result awaited
8	**Constraints identified and feedback for research**	Result awaited
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:

Treatment	**Sensory evaluation after 0 – 75 days**										**Change in TSS 0-75 days**										**cost of cultivation**	**gross**	**Net**	**B:C**
	Ambient condition					**Refrigerated condition**					**Ambient condition**					**Refrigerated condition**								
	0	**15**	**30**	**45**	**60 & 75**	**0**	**15**	**30**	**45**	**60 & 75**	**0**	**15**	**30**	**45**	**60 & 75**	**0**	**15**	**30**	**45**	**60 & 75**				
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			

Note – *The final result will be analysed and produced on the basis of storage after 75 days. This sample is 15 days old and data recording is under process.*

OFT-5: Agricultural engineering

1.	**Title of On farm Trial**	Assessment of the Turbo Happy Seeder for sowing wheat into heavy rice residues.
2.	**Problem diagnosed**	After paddy harvesting required management of heavy rice residues for wheat sowing
3.	**Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)**	
	Farmers Practice (FP)	Brodcasting
	Technology option-I	Sowing of zero till cum seed cum fertilizer machine
	Technology option-II	Happy Seeder
4.	**Source of Technology (ICAR/ AICRP/SAU/other, please specify)**	Central Institute of Agricultural Engineering (CIAE-Bhopal)
5.	**Production system and thematic area**	Farm Mechanization
6	**Performance of the Technology with performance indicators**	Cost of Cultivation, Number of irrigation, field capacity, yield (yield/ha) and B: C ratio.
7	**Final recommendation for micro level situation**	Happy Seeder (HS) machine showed significantly higher yield (17.14%) in comparison to farmer practice. The operation cost saving(18.57 %), was also observed in comparison to T1.
8	**Constraints identified and feedback for research**	Availibility of Happy seeder and lack of awareness among farmer.
9	**Process of farmers participation and their reaction**	Training and demonstration

Thematic Area: Farm Machinery application
Problem Defnition**:** Sowing in heavy rice residue.
Technology assessed

Table:

Technology option	Plant height (cm	Effective tillers per m^2	No. of grains/ earhead	Bundle weight (kg/4m2)	Grain weight (kg/4m2)	1000 grain weight (grms)	Irrigation (hrs/ha)	Yield (qt./ha)	Total operational cost	Gross Income	Net Income	BC ratio
Farmers Practice (FP)	89.65	326	43	3.78	1.29	35.43	32	33.5	41450	61975	20525	1.50
Zero till cum seed cum fertilizer machine (T1)	90.75	349	49	4.44	1.72	40.45	25	38.64	38000	71484	33484	1.88
Happy Seeder (2)	92.25	372	51	4.74	1.85	42.61	22	40.24	35000	72000	37000	2.06

Result

The trial were carried out at nine farmer field. It is clear from the above description that happy seeder doesnot only improves the farmers income but also conserve the most of the production inputs such as reduction in green house gases emission, nutrient recycling and soil health improvement . The adoption and water use analysis in OFT confirm that HS and ZT saved irrigation time. The higher crop yield was recorded Tretment T3 of 40.24 q/ ha in comparison to T2 and T1 respectively. Gross returns were found Rs. 72000 /ha in T3 (happy seeder), in comparison to T2 Rs. 71484 /ha (ZT) and T3 Rs. 61975 (CT). The conclusion is Happy Seeder (HS) machine showed significantly higher yield (16.25%) in comparison to farmer practice. The operation cost saving(18.42 %), was also observed in comparison to T1.

Happy seeder | Zero tillage | farmers practice

OFT-6 , 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 After paddy harvesting required management of heavy rice residues 2 As compare to tradition methods of sowing wheat required more labor, cost, water requirement and Time.

		3 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	
	Farmers Practice	Broadcasting wheat with rotator
	Technology option-I	Use of Happy Seeder in 15 cm. standing rice residue with 2.5 to 3 km./h speed
	Technology option-II	Use of Happy Seeder in 15 cm. standing rice residue with 3 to 3.5 km./h speed
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	• Central Institute of Agricultural Engineering (CIAE-Bhopal) • Punjab Agricultural University, Ludhiana
5.	Production system and thematic area	Farm Mechanization
6	Performance of the Technology with performance indicators	Economic Analysis, Field Efficiency %, field capacity, Fuel Consumption (l/ha) and yield (yield/ha), B: C ratio.
7	Final recommendation for micro level situation	In progress
8	Constraints identified and feedback for research	In progress
9	Process of farmers participation and their reaction	Training and demonstration

Thematic Area: Farm Machinery application
Problem Defnition**:** Sowing in heavy rice residue.
Technology assessed

Table : On-farm evaluation of Turbo Happy Seeder

Technology option	No. of trials	Total area (ha.)	Residue (Chopped residue used as mulch)	Theoretical field capacity	Effective field capacity	Field Efficiency (%)	Fuel Consumption (l/ha)	Plant height (cm)	Effective tillers per m2	No. of grains/earhead	Bundle weight (kg/4m2)	Grain weight (kg/4m2)	1000 grain weight (grms)	Irrigation (hrs/ha)	Yield (qt./ha)	Total operational cost	Gross Income	Net Income	BC ratio
Farmers Practice (FP)	7	2.5	Manually	NA	NA	NA	48.1	-	-	-	-	-	-	-	-	-	-	-	-
Use of Happy Seeder in 15 cm. standing rice residue with 2.5 to 3 km./h speed (T1)	7	2.5	8 to 12 cm	0.51	0.4	72.73%	14.85	-	-	-	-	-	-	-	-	-	-	-	-
Use of Happy Seeder in 15 cm. standing rice residue with 3 to 3.5 km./h speed (T2)	7	2.5	5 to 10 cm	0.65	0.54	76.12%	13.73	-	-	-	-	-	-	-	-	-	-	-	-

Result: In Progress

Note – The final result will be analysed and presented on the basis of crop harvesting.

OFT- 7 Agricultural engineering

1.	**Title of On farm Trial**	Economic impact of AgroMat 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/refinement**	
	Farmers Practice	• Cultivation Practices without Agromet- advisory services
	Technology option-I	• Cultivation Practices with Weather forecast

	Technology option-II	• Cultivation Practices with Weather forecast along and AgroMet advisory report
4.	**Source of Technology (ICAR/other, please specify)**	India Meteorological Department, India
5.	**Production system and thematic area**	Agro-meteorological
6.	**Performance of the Technology with performance indicators**	Impact on Irrigation, Labour cost, Yield and Economic impact of farmer.
7.	**Final recommendation for micro level situation**	In Progress .
8.	**Constraints identified and feedback for research**	Internet user
9.	**Process of farmers participation and their reaction**	Training and demonstration

Thematic Area: Farm Machinery application

Problem Defnition**:** Sowing in heavy rice residue.

Technology assessed

Table Assessment of weather based AgroMet Advisories for Paddy crop.

Particulars	**Seed (Rs./Ha)**	**Fertilizers (DAP,Urea,Potash) (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**	**C:B**

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	6900	9000	7000	4200	38130	42	6200	77700	39570	2.04

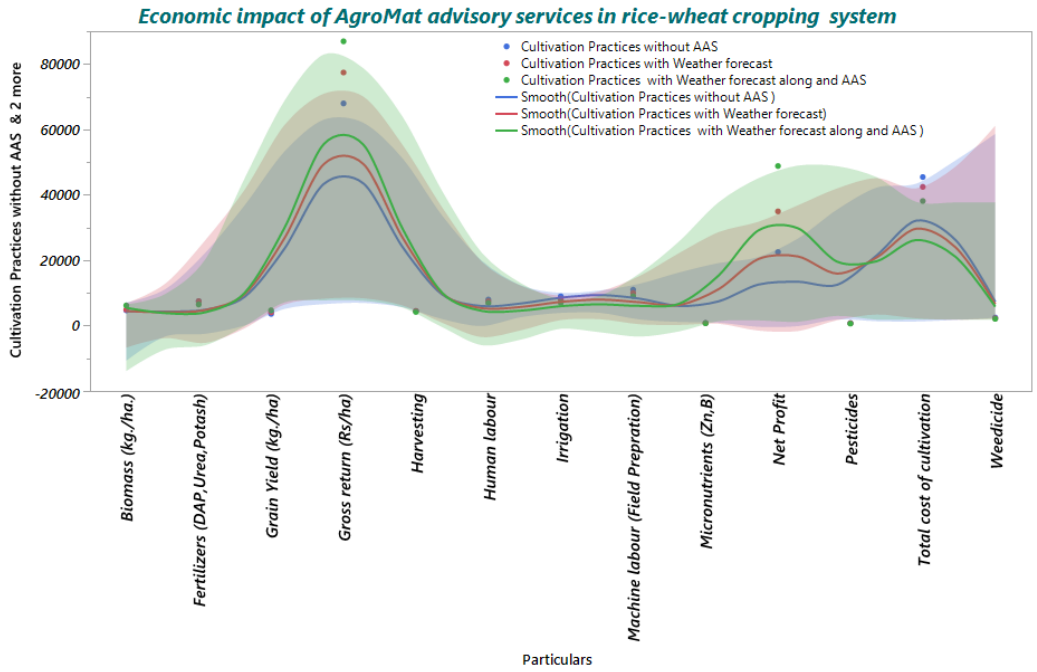


Figure: Cost of cultivation with non-AAS, Weather forecast and AAS farmers for Paddy cropping operations

Result: In progress, however the trial during Rabi season revealed that the farmers who followed the weather forecast along and AgroMet advisory report (T2) are able to reduce the input cost upto 12 % in rice and increases the net profit by paddy Rs. 39570/ha. in comparisoin to the non AAS farmers (FP).

Note – *The final result of Rabi crop will be analysed after crop harvesting.*

***AgroMat advisory* services in rice-wheat cropping system**

Farmer asking about Weather forecast along and AgroMet advisory report before harvesting paddy crop

3.1.2 Technology Assessed by KVK (Discipline wise)

Sl. No.	Discipline	Thematic areas	No. of the technologies (Technology Interventions)	No. of trials	No. of Locations
1.	Crop Production	INM	2	20	20
2	Enterprises	Farm mechnization	2	16	16
3	Women Empowerment	Value addition	2	14	14

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Rice R. Neelam	Integrated Crop management	DSR with zero tillage machine	5	5	1	0	0	0	6	0	7	0	7	
2.	Wheat HD2967/Bio fortified	Integrated crop management	Package and practice of wheat	5	5	3	0	0	0	18	2	21	2	23	
3.	Vegetable	Farm Machinary	Performnce Power Operated Rotary Weeder for Vegetable Crops	1	1	2	0	0	0	6	0	8	0	8	
4.	Mustard, chickpea, lentil	Farm Machinary	Multicropping sowing with multi crop planter	2	2	0	8	0	0	0	10	0	10	10	
5.	Maize	Safe storage	Storage of maize in hermetic bag	32	32	0	1	0	0	22	9	22	10	32	
6.	Button mushroom	Mushroom production	Button mushroom	10	10	0	0	0	0	0	10	0	10	10	
Total				55	55	6	9	0	0	52	31	58	40	98	

Details of farming situation

Sl. No.	Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
					N	P_2O_5	K_2O					
1	Rice	Kharif	Irrigated	Sandy loam	295.8	25	156.38	Paddy/ Maize	10 July	15 Nov.	1591	45
2	Wheat	Rabi	Irrigated	Sandy loam	345	25.7	176	Rice/ Maize	1-20 November	20 March	1591	45
3.	Vegetable	Rabi	Irrigated	Sandy loam	-	-	-	Rice/ Maize	15-30 Octuber	-	1591	45
4.	Mustard, chickpea, lentil	Rabi	Irrigated	Sandy loam	-	-	-	Rice/ Maize	20-30 November	-	1591	45
5.	Maize	Rabi	-	-	-	-	-	-	-	-	1591	45
6.	Button mushroom	Rabi	-	-	-	-	-	-	25- 30 November	25 – 30 December	1591	45

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

B. Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	**Thematic area**	**Name of the technology demonstrated**	**No. of Farmer**	**Area (ha)**	**Yield (q/ha)**		**% change in yield**	**Other parameters**		***Economics of demonstration (Rs./ha)**				***Economics of check (Rs./ha)**			
					Demonstration	**Check**		**Demo**	**Check**	**Gross Cost**	**Gross Return**	**Net Return**	**** BCR**	**Gross Cost**	**Gross Return**	**Net Return**	**** BCR**

* 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

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

Other crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rice R. Neelam	ICM	Improved Variety	08	05	37.50	32.65	10.55	38500.00	67500.00	29000.00	1.75	37500.00	58770.00	20270.00	1.57
Wheat HD-2967	ICM	Improve variety	06	2.7	38.50	32.25	16.23	36400.00	77000.00	40600.00	2.97	35000.00	64500.00	29500.00	1.84
Wheat HD-2967	ICM	Improve variety	17	5.82	Crop standing										
Fortified Wheat	ICM	Improve variety	06	3.64	Crop standing										
		Total	37	17.16											

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
Buffalo																	
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (Pl. specify)																	
Total																	

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

Other enterprises

Category	Name of the technology	No. of Farmer	No.of units	Major parameters	% change in	Other parameter	*Economics of demonstration (Rs.) or Rs./unit	*Economics of check (Rs.) or Rs./unit

	demonstrated			Demonstration	Check	major parameter	Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR

Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women	1. Storage in hermetic bag (to minimize losses): Paddy	10	0%	2%	Spoilage percentage due to infestation after nine months of storage.
	Storage in hermetic bag (to minimize losses): Wheat	10	0%	2.5%	
	Storage in hermetic bag (to minimize losses): Moong	20	0.25%	10%	
	2. Zero energy cool chambers to minimize storage loss of summer vegetable .		Okra freshness - 4 days	Okra freshness - 1 days	Okra, spinach, radish and mushroom was stored fresh for four days, twodays, five daysand two days respectively in ZECC and one day, one day, three days and one day respectively at room temterature
			Spinach freshness – 2 days	Spinach freshness – 1 days	
			Radish freshness – 5 days	Radish freshness – 3days	
	3.Compost with Spawn of Button mushroom	10	1. production - 2kg/10kg	1. production - 8kg/10kg straw	1. Production button is four time less in compare to oyster

			compost used. 2. production cost – Rs. 50.00/kg button mushroom	used. 2. production cost – Rs. 30.00/kg oyster mushroom	mushroom but rate of button mushroom is double. 2. Demand of button mushroom is more in compare to oyster. 3. For commercialization of product, variation is necessary. keeping these views button mushroom was taken under FLD.
	1. Storage of maize in hermetic bag	32	Result awaited		
Pregnant women					
Adolescent Girl					
Other women					
Children					
Neonatal					
Infants					

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit)			
					Demonstration	Check		Sowing	Irrigation	Weeding	Harvesing /picking	Sowing	Irrigation	Weeding	Harvesing /picking
zero till seed drill cum fertilizer machine & and Happy seeder	Wheat	Zero till seed drill cum fertilizer machine & seed and Happy seeder	12	4.85	12	18	18.25	02/5	3/5	10	-	1800	800	1800	5600
Gravity feed	Vegetable	Drip kit	4	0.20	9	12	21 %	10/7	5/0	30/5	5	2800	2000	7200	2200

micro irrigation		Micro Irrigation													
Multi crop planter	Mustard, chickpea, lentil	Multi crop planter	10	5			Data Collection result analysis								
Power Operated Rotary Weeder	Vegetable and Maize	Power Operated Rotary Weeder	8	1			Data Collection result analysis								

*** 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**

Wheat Sowing with happy seeder

Wheat Sowing with Zero till cum fertilizer machin

	
Germination of wheat crop with Happy seeder	**Germination of wheat crop with Zero till cum fertilizer machin**

Demonstration details on crop hybrids

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

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

Total Commercial Crops										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl. specify)										
Total Fodder Crops										

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Hermetic bag	It is very effective for storage of wheat, paddy and other seeds
2	Zero Energy cool chamber	Summer vegetable can stored effectively
3	INM in wheat	Varity HD-2967 was found sutable for local climatic condition
4	INM in Rice	Varity R. Neelam was found sutable for local climatic condition
5	Micro Irrigation System	Increased yield with drip irrigation has been found in several crops ranged between 40–60 % depending on the crops/varieties and method of irrigation.
6	Zero till seed drill cum fertilizer machine	This technology is very good and efficient for sowing of Rabi crop, Saving cost of cultivation in wheat crop.

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	3.11.2021	1	26	CRA : Paddy,crop cutting
		5.11.2021	1	29	CRA : Paddy,crop cutting
		18.11.2021	1	16	CRA : Paddy,crop cutting
		07.10.2021	1	7	CSISA: Paddy,crop cutting at Ratnpura
		6.04.2021	1	6	CRA: wheat crop cutting
		13.04.2021	1	4	FLD: wheat crop cutting at Rewa
		14.04.2021	1	7	CSISA wheat crop cutting
		15.04.2021	1	4	CRA: wheat crop cutting
		16.04.2021	1	7	CRA: wheat crop cutting
		06.03.2021	1	40	CRA: Musterd
		10.02.2021	1	19	CFLD: chickpea
		15.02.2021	1	12	CFLD:Rapseed & Musterd
		17.02.2021	1	18	CFLD:Rapseed & Musterd
2.	Farmers Training	10.12.2021 29.12.2021	1 1	34 10	Maize storage in Hermetic bag compost with button mushroom spawn
3.	Media coverage	19.11.2021	3	-	-
4.	Training for extension functionaries	-	-	-	-

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 -2021:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1.	Rapeseed & Mustard	Local	13.00	1260	13.00	2200.00	R. Sufalam INM & IPM	101	50	18.00	13.50	15.75	25.00	21.15	28.40

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	R. Sufalam INM&IPM	24700.00	60450.00	35750.00	2.45	25500.00	73237.50	47737.50	2.87

C. Socio-economic impact parameters

Sl. 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/household)
1.	Rapeseed & Mustard (R. suflam)	1575.00	1500.00	46.50	10.00	65 kg	Agriculture & Education	In crop season, 26 mandays

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	Improved variety, INM & IPM	1. Oil and oil seed cake used for human and animals respectively. 2. As it is profitable enterprise, 3. Increased the house hold income.	Higher yield and oil percentage	This socio-economic status may be uplifted because of less cost involvement and high feasibility of adoption by small and marginal famers.	1. Oil extracting small scale industries is not available as if it will produce at large scale.	Up to large scale	1. System approach must be promoted. 2. Line sowing/ seed sowing through zero tillage/ seed cum fertidrill for getting higher yield.

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 and grain yield	High yield and oil content	High yield and oil content	Good performance and ready for accepting variety for next year

F. Extension activities under CFLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Field day	10.02.2021, KVK, Saraiya	19
2.	Field day	17.02.2021, Ghosaut, Meenapur	18

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

Field day at KVK, Farm

Field day at Ghosaut, Meenapur

Training programme at Bhataullia, Saraiya

Crop growth stage at 30 DAS at Village Dwariknathpur

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Rapeseed & mustard	i) Critical input		151193	
	ii) TA/DA/POL etc. for monitoring		4193	
	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total	160241.00	155386.00	84614
	Technology Agent	Nil	Nil	Nil
	Total	160241.00	155386.00	(-)84614

Performance of the demonstration under CFLD on Pulses during Rabi and summer-2021:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield (kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	**State yield (S)**	**Potential yield (P)**				**Max.**	**Min.**	**Av.**	**D**	**S**	**P**
1.	Lentil	Local	10.00	700.00	1068.00	2500.00	Improved Variety-HUL-57, INM & IPM	58	20	14.50	10.00	12.25	42.62	12.46	51.20
2.	Chick pea	Local	11.50	12.00	1154.00	2500.00	Improved variety-TG-186	79	20	15.00	12.00	13.50	11.11	14.51	46.00

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot				Farmers, feedback
		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.	HUL-57 Improved Variety, INM & IPM	23700.00	51000.00	27300.00	2.15	25500.00	62475.00	36975.00	2.45	Low yield of pulse crop due to crop damage by blue bull.
2.	TG-186 & improved variety	24500.00	58650.00	34150.00	2.39	26500.00	68850.00	42350.00	2.60	

Note: MSP of lentil & Chickpea @5100/-

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/household)
1.	Lentil- (HUL-57)	1225.00	1100.00	5100.00	40.00	25.00	Agriculture & education	In crop season 52 mandays
2.	Chickpea – (TG-186)	1350.00	1300.00	5100.00	35.00	25.00	Agriculture& education of	In crop season 50 mandays

D. Pulses Farmer's perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	Improved variety, 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.	1. Pulse industries are not available as if it will produce at large scale. 2.Effective procurement policy is not available	Up to large scale	1. 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 yielding variety i.e. HUL-57 INM: Seed treatment through Rhizobium and PSB and application of micronutrient.	The effect of improved variety i.e. HUL-57 along with INM and IPM recorded higher yield.	The performance of technology i.e. improved variety; INM and IPM were recorded higher yield 12.25 q/ha over local check.	The performances of crop were gain higher yield due to full package and practice as well as implements of improved technology under supervision of KVK scientist.
Improved variety: High yielding variety i.e. TG-	The effect of improved variety *i.e.* TG-186	The performance of technology *i.e.*	

186.	along with INM recorded maximum yield.	improved variety (TG-186) were recorded higher yield 13.50q/ha over local check.	

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

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Field day on chickpea	15.02.2021, Pokharaira, Saraiya	10
2.	Field day on lentil	24.02.2021, 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

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

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Chickpea	i) Critical input		158050	
	ii) TA/DA/POL etc. for monitoring		550	
	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total	**00.00**	158600.00	
Lentil	i) Critical input		108300	
	ii) TA/DA/POL etc. for monitoring		8500	
	iii) Extension Activities (Field day)			

	iv)Publication of literature			
	Total	**00.00**	116800	84600
	Technology Agent	Nil	Nil	Nil
	Total	**00.00**	275400.00	(-) 84600

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

Farmers and farm women (On campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
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													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post-harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management	5	78	29	107	9	15	24	0	0	0	87	44	131
Soil and Water Conservation													
Integrated Nutrient Management	5	52	39	91	10	17	27	0	0	0	62	56	118
Production and use of organic inputs													
Management of Problematic													

soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing	2	47	13	60	7	0	7	0	0	0	54	13	67
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	2	26	14	40	1	5	6	0	0	0	27	19	46
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing	2	26	1	27	2	1	3	0	0	0	28	2	30
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Bee-keeping	1	18	0	18	4	0	4	0	0	0	22	0	22
Capacity building													
Women and child care													
Mushroom Production	2	11	27	38	3	5	8	0	0	0	14	32	46
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	3	108	23	131	10	5	15	0	0	0	123	23	146
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of	3	5	31	36	0	15	15	0	0	0	5	46	51

farm machinery and implements													
Small scale processing and value addition													
Post-Harvest Technology													
Other, Agro Metrology													
Soil & Water conservation	2	24	18	42	3	0	3	0	0	0	27	18	45
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 disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and													

wax sheets													
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	27	395	195	590	49	63	112	0	0	0	449	253	702

B) Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	T
Mushroom Production	3	57	17	74	16	3	19	0	0	0	73	20	93
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Soil Testing	1	7	8	15	1	2	3	0	0	0	8	10	18
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Lac Bangle Making	1	3	10	13	0	3	3	0	0	0	3	16	19
Training and pruning of orchards													
Value addition													

Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Enterprise development													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Herbal Gulal production	1	0	28	28	0	0	0	0	0	0	28	0	28
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post-Harvest Technology	2	46	4	46	4	0	4	0	0	0	50	0	50
Tailoring and Stitching													
Rural Crafts													
SWC	1	11	1	12	0	0	0	0	0	0	11	1	12
Vermi compost	2	20	14	22	14	2	16	0	0	0	21	29	50
Farm machinery	1	14	5	19	1	0	1	0	0	0	15	5	20
Income generation	1	0	11	11	0	4	4	0	0	0	11	4	15
TOTAL	**13**	**158**	**98**	**240**	**36**	**14**	**50**	**0**	**0**	**0**	**220**	**85**	**305**

C) Extension Personnel (on campus)

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Productivity enhancement in field crops													
Value addition													
Integrated Pest Management													
Integrated Nutrient management													
Household food security by kitchen gardening and nutrition gardening	1	0	15	15	0	2	2	0	0	0	0	17	**17**
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Installation and maintenance of	1	0	15	15	0	2	2	0	0	0	0	17	**17**

micro 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													
TOTAL	**2**	**0**	**30**	**30**	**0**	**4**	**4**	**0**	**0**	**0**	**0**	**34**	**34**

D) Farmers and farm women (Off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
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													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													

Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post-harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management	15	246	29	275	37	13	50	0	0	0	283	42	**325**
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing	2	23	13	36	5	5	10	0	0	0	28	18	**46**
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 nutrition gardening													
Design and development of	3	28	16	44	0	3	3	0	0	0	28	19	**47**

low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing	2	14	25	39	0	5	5	0	0	0	14	30	**44**
Gender mainstreaming through SHGs													
Storage loss minimization techniques	5	30	49	79	0	9	9	0	0	0	30	58	**88**
Enterprise development													
Value addition	4	48	21	69	7	12	19	0	0	0	40	48	**88**
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Mushroom Production	2	62	37	99	9	11	20	0	0	0	71	48	**119**
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	3	41	13	54	3	0	3	0	0	0	44	13	**57**
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements	11	165	19	184	22	10	32	0	0	0	187	39	**216**
Small scale processing and value addition													
Post-Harvest Technology													
Soil & Water Conservation	3	28	7	35	1	2	3	0	0	0	29	9	**38**
Others, if any(FMP)													
Krishi Mausam Seva													
Agrometrology													
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 disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and													

Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	**50**	**685**	**229**	**914**	**84**	**70**	**154**	**0**	**0**	**0**	**754**	**324**	**1068**

E) RURAL YOUTH (Off Campus)

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
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													
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 Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management	2	42	6	48	4	6	10	0	0	0	46	12	**58**
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Installation and maintenance of micro irrigation systems													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements	2	42	3	45	3	0	3	0	0	0	45	3	**48**
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													

Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs	1	15	1	16	1	0	1	0	0	0	16	1	**17**
Gender mainstreaming through SHGs													
Crop intensification													
ICM													
Control and Management of Dessert Locust													
Low cost Nutrient rich foods													
SWC													
TOTAL	**5**	**99**	**10**	**109**	**8**	**6**	**14**	**0**	**0**	**0**	**107**	**16**	**123**

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
TOTAL													
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													

Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
TOTAL													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
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 Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic													

Plants													
Nursery management													
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	20	298	68	366	47	30	77	0	0	0	245	98	**443**
Production and use of organic inputs	5	78	29	107	9	15	24	0	0	0	87	44	**131**
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing	4	70	26	96	12	5	17	0	0	0	82	31	**113**
Others, if any													
TOTAL	29	446	123	569	68	50	118	0	0	0	514	173	**687**
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 nutrition gardening	2	26	14	40	1	5	6	0	0	0	27	19	**46**
Design and development of low/minimum cost diet	8	82	43	125	5	11	16	0	0	0	87	54	**141**
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													

Storage loss minimization techniques	5	30	49	79	0	9	9	0	0	0	30	58	**88**
Enterprise development													
Value addition	4	48	21	69	7	12	19	0	0	0	55	33	**89**
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Bee-keeping	1	18	0	18	4	0	4	0	0	0	22	0	**22**
Capacity building													
Women and child care													
Others, if any Mushroom Production	4	73	64	137	12	16	28	0	0	0	85	80	**165**
TOTAL	24	277	191	468	29	53	82	0	0	0	306	244	551
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	7	180	39	219	13	5	18	0	0	0	198	39	**237**
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements	18	238	60	268	31	25	56	0	0	0	268	95	**363**
Small scale processing and value addition													
Post-Harvest Technology													
Others, if any(FMP)													
Soil & Water													
Krishi Mausam Seva													
Agrometrology													
Soil & Water Conservation	7	84	38	92	5	4	9	0	0	0	89	42	**131**
TOTAL	32	502	137	579	49	34	83	0	0	0	555	176	731
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													
TOTAL													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													

Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
TOTAL													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													

Integrated Farming Systems													
TOTAL													
XII. Others (Pl. specify)													
TOTAL	85	1225	451	1616	146	137	283	0	0	0	1375	593	1969

ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	3	57	17	74	16	3	19	0	0	0	73	20	93
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements	1	14	5	19	1	0	1	0	0	0	15	5	20
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition	2	3	21	24	0	7	7	0	0	0	14	20	34
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Herbal Gulal production	1	0	28	28	0	0	0	0	0	0	0	28	28
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	2	46	4	50	4	0	4	0	0	0	50	4	54
Tailoring and Stitching													
Rural Crafts													
Soil Testing	1	7	8	15	1	2	3	0	0	0	8	10	18
Others if any (ICT application in agriculture)													
SWC													
Vermi compost	2	20	14	34	14	2	16	0	0	0	34	16	50
Farm machinery													
Income generation													
TOTAL	**12**	**147**	**97**	**244**	**36**	**14**	**50**	**0**	**0**	**0**	**194**	**103**	**297**

iii. Extension Personnel (On and Off Campus)

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management	**2**	**42**	**6**	**48**	**4**	**6**	**10**	**0**	**0**	**0**	**46**	**12**	58
Rejuvenation of old orchards													
Protected cultivation													

technology													
Formation and Management of SHGs													
Installation and maintenance of micro irrigation systems	**1**	**0**	**15**	**15**	**0**	**2**	**2**	**0**	**0**	**0**	**0**	**17**	17
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements	**2**	**42**	**3**	**45**	**3**	**0**	**3**	**0**	**0**	**0**	**45**	**3**	48
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs	**1**	**15**	**1**	**16**	**1**	**0**	**1**	**0**	**0**	**0**	**16**	**1**	17
Gender mainstreaming through SHGs													
Crop intensification													
ICM													
Control and Management of Dessert Locust													
Low cost Nutrient rich foods	**1**	**15**	**1**	**16**	**1**	**0**	**1**	**0**	**0**	**0**	**16**	**1**	17
SWC													
TOTAL	7	114	26	140	9	8	17	0	0	0	123	34	157

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

Discipline	**Clientele**	**Title of the training programme**	**Duration in days**	**Venue (Off / On Campus)**	**Number of participants**			**Number of SC/ST**		
					Male	**Female**	**Total**	**Male**	**Female**	**Total**
Practicing farmer										
Soil Sciences										
	1.	INM in lentil crop through biofertilizer	1	off	7	0	7	2	0	2
	2.	INM in potato crop	1	off	13	2	0	1	0	1
	3..	INM in Mustard crop	1	off	29	1	30	4	7	11

	4..	INM in mustard	1	off	25	0	25	0	0	0
	5.	INM in mustard	1	off	18	0	18	6	0	6
	6	INM in mustard	1	off	18	1	19	2	0	2
	7.	INM in Chicpea	1	ON	18	1	19	2	0	2
	8..	INM in mustard	1	off	12	0	12	0	0	0
	9..	INM in rice crop	1	off	44	0	44	2	0	2
	10.	Importance of millets	1	on	0	10	10	0	5	5
	11..	INM in rice crop	1	on	0	21	21	0	10	10
	12.	INM in rice crop and fertilizer management	1	off	12	0	12	0	2	2
	13.	INM in Kharif crop paddy	1	off	7	5	12	0	0	0
	14.	INM in Kharif crop Maize	1	off	9	5	14	0	0	0
	15.	INM in Green Gram crop through biofertilizer	1	off	8	9	17	0	0	0
	16.	Effect Nutrient on Fertilizer	1	off	25	3	28	3	0	3
	18.	Importance of soil testing and use of balance fertilizer	1	on	24	3	27	3	0	3
	19.	INM in Rabi crop	1	off	2	0	2	15	3	18
	20.	INM in Rabi crop	1	off	17	3	20	2	1	3
	21.	Vermicompost production	1	on	10	4	14	5	2	7
	22.	Vermicompost production	1	off	20	7	27	3	5	8
	23.	Vermicompost production	1	off	14	2	16	2	2	4
	24.	Organic farming	1	off	6	14	20	0	3	3
	25.	Organic farming	1	off	24	6	30	2	5	7
	26.	Soil testing and Biofertilizer	1	off	14	0	14	2	0	2
	27.	Soil testing	1	off	39	4	43	7	0	7
	28.	Soil testing	1	on	12	1	13	2	0	2
		Soil testing	1	On	11	12	23	3	5	8
	29.	Soil testing in newly orchard	1	off	8	9	17	0	0	0
Agriculture Engineer	30.	Importance and effect of Grubber in mustard /vegetable	01	Off	11	-	11	-	-	-
	31.	Agricultural	01	Off	04	08	12	02	00	02

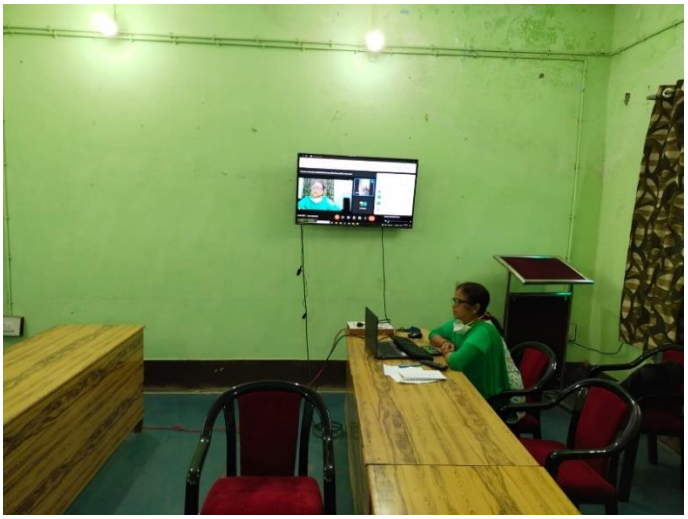
		advisory based gramin krishi mausam sewa for farmer								
	32.	Importance of micro-irrigation for different soil and crop.	01	Off	04	08	12	02	00	02
	33.	Krishi Mausam Seva	01	off	10	10	20	-	-	-
	34.	Krishi Mausam Seva	01	off	15	03	18	01	-	01
	35.	Krishi Mausam Seva	01	off	11	-	11	-	-	-
	36.	Importance of Micro-irrigation in Vegetable Crop	01	Online	16	00	16	02	00	02
	37.	Use of solar energy in agricultural & it's care and maintenance	01	Online	13	0	13	2	0	02
	38.	Krishi Mausam Seva (Agromet Advisory)	01	Off	10	00	10	02	00	02
	39.	Promotion of farm equipment and agromet advisory	01	Off	16	02	18	02	00	02
	40.	Importance of organic and inorganic mulching material and CRA	01	Off	33	00	33	05	00	05
	41.	Drip irrigation system for vegetable crops	01	off	12	09	21	00	00	00
	42.	Line sowing of wheat with Zero till seed drill cum fertilizer machine & seed and Happy seeder	01	OFF	34	00	34	02	00	02
	43.	Irrigation in wheat crop	01	off	25	0	25	4	0	04
	44.	Zero tillage in Rabi crop	01	off	15	0	15	3	0	03
	45.	Wheat and Rabi crop in weed control by grabber	01	off	23	0	23	03	0	03
Home Science	46.	Method of Aonla preservation	01	off	09	04	13	00	04	04
	47.	Drying of leafy vegetable	01	off	19	01	20	01	01	01

	48.	Mushroom Production	01	off	24	03	27	04	00	04
	49.	Method of fruits preservation	01	off	15	03	18	01	-	01
	50.	Method of vegetable preservation	01	off	11	-	11	-	-	-
	51.	Importance of supplementary foods and its preparation	01	Off	00	12	12	00	02	02
	52.	Value added products of mushroom	01	Online	05	05	10	00	01	01
	53	Milky mushroom cultivation	01	Online	6	6	12	2	3	05
	54	Online training programme on mushroom production	01	Online	6	6	12	02	00	02
	55	Nutritional importance of cheap & locally available foods	01	Online	9	23	32	00	00	00
	56	Importance & lay out of kitchen gardening	01	On	00	05	05	00	01	01
	57	Importance & lay out of kitchen gardening	01	On	00	07	07	00	03	03
	58	Importance of supplementary foods, its preparation and balance12.diet.	01	Off	19	19	38	02	07	09
	59	Importance osupplementary foods & its preparation	01	on	00	17	17	00	01	01
	60	Importance of supplementary foods & its preparation	01	on	00	17	17	00	01	01
	61	Storage of grains & seeds	01	Off	09	11	20	02	02	04
	62	Ways to minimizes water soluble vitamin	01	on	00	19	19	00	00	00
	63	Ways to minimize water soluble vitamins	01	OFF	12	00	12	01	00	01
	64	Safe storage of seeds in hermetic	01	OFF	00	19	19	00	03	03

		bag								
	65	Value addition of fruits & vegetables	01	off	25	-	25	04	00	04
RY										
Home Science	**66**	Oyster mushroom production	02	off	15	13	28	05	00	05
	67	Oyster mushroom production	02	off	4	17	21	2	-	2
	68	Mushroom production	07	on	16	01	17	00	00	00
	69	Balance diet for different age group.	01	on	35	-	35	-	4	04
	70	Mushroom production	03	On	16	19	35	4	1	05
	71	Mushroom production	03	On	28	7	35	11	01	12
	72	Oyster mushroom cultivation	03	on	19	10	29	01	00	01
	73	Oyster mushroom cultivation	03	on	23	06	29	01	00	01
	74	Lac bangle making	03	on	-	20	20	00	1	01
	75	Mushroom production	03	on	18	11	29	00	02	02
Soil Science	**Extension Functionaries**	**Vermicompost production technique**	**05**	**on**	**10**	**9**	**19**	**01**	**-**	01
	76	Vermicompost production technique	03	On	35	00	35	21	00	21
	77	Vermicompost production technique	03	On	35	00	35	22	00	22
	78	Vermicompost production technology	03	on	21	01	22	03	00	03
	79	Vermicompost production technology	03	on	23	02	25	12	02	14
Agriculture Engineer	**80**	**Maintenance of Agriculture machineries**	**05**	**on**	**16**	**-**	**16**	**04**	**-**	04
	81	Care and maintenance of micro-irrigation system	03	On	11	08	19	08	0	08
	82	Installational maintenance of micro irrigation unit	03	on	10	5	15	1	1	02
	83	Role of MIS for Vegetable	03	On	0	35	35	0	16	**16**

		production								
Extension Functionaries training										
Soil Science	**84**	Vermicampost	**01**	off	18	0	18	2	1	3
	85	orgenic farming	01	off	24	6	30	2	5	7
Home Science	**86**	Kitchen Gardening	**01**	on	**0**	**15**	**15**	**0**	**2**	**2**
	87	Value Addition	01	off	15	1	16	1	0	1
Agril Engg	**88**	**use of Drip Irrigation in different crop**	**01**	on	**0**	**15**	**15**	**0**	**2**	**2**
	89	farm machinery	01	off	11	3	14	1	0	1
	90	farm machinery	01	off	31	0	31	2	0	2

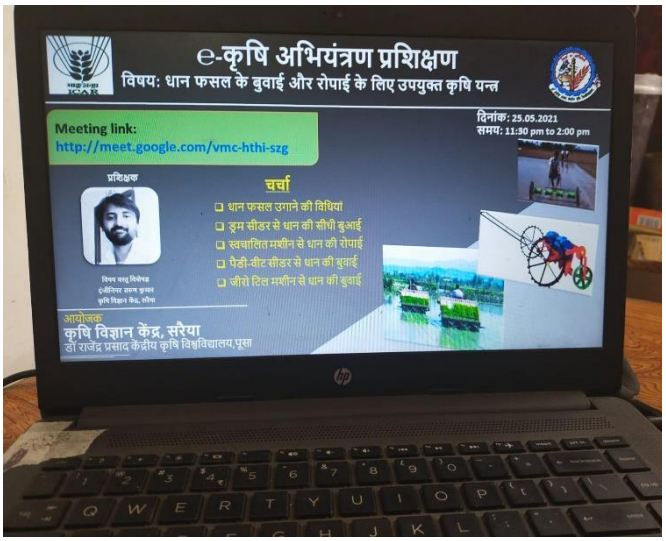
Photograph of Online Training programme



E- training on Mushroom production

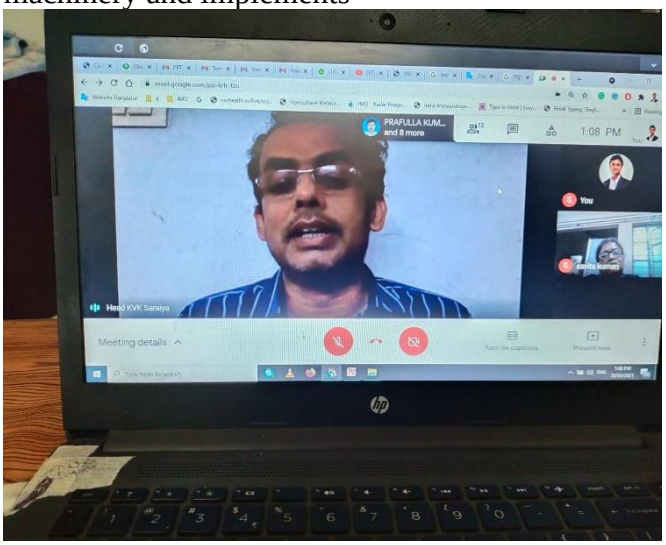
E- training on Vermicompost production technique

E- training on Water conservation



E- training on Care and maintenance of farm machinery and implements

e- training on online beekeeping training programme



e- training on Milk Production

Photograph of Training programme

INM for Fertilizer Dealers at KVK, Saraiya

15 Days INM Training Program at KVK, Saraiya

PF Training on Musroom production at KVK, Saraiya

PF Training on fall armyworm

PF Training at KVK, Saraiya

PF Training on Integrated Nutrient Management

PF Training at Ratanpura Village, Motipur

PF Training on Horticultur at KVK, Saraiya


Rural youth training programme on Micro Irrigation System

Rural youth training programme on Lac Bangles and Soft toys training

H) Vocational training programmers for Rural Youth

Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self-employed after training			Number of persons employed else where
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
INM for Fertilizer Dealers	Fertilizer Dealers	INM for Fertilizer Dealers	15	33	1	34	10	10	4	-

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

I) Sponsored Training Programmes

Sl.	Title	Thematic area	Month	Duration (days)	Client PF/RY /EF	No. of courses	No. of Participants									Sponsoring Agency
							Male			Female			Total			
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1.	Goat farming	Profitable dairy farming and livestock management	Dec.	3	RY	01	20	3	00	17	0	00	37	3	00	40	MF, AH&D, GoI
2.	Poutry farming		Dec.	3	RY	01	36	0	00	4	0	00	40	0	00	40	MF, AH&D, GoI
3.	Vanijya Utsav	Vanijya Utsav	September	1	PF &RY	01	18	5	00	20	4	00	38	9	00	47	APEDA
4.	Bee Keeping	Bee Keeping	March	7	PF & RY	01	22	0	00	2	1	00	24	1	00	25	NBB, Delhi
5	Bee Keeping	Bee Keeping	March	7	PF&RY	02	20	3	00	2	0	00	24	3	00	25	NBB, Delhi
6	Bee Keeping	Bee Keeping	March	03	PF&RY	01	18	3	00	3	1	00	21	4	00	25	NBB, Delhi
7	Horticultural	Horticultural	March	03	PF&RY	02	0	12	00	0	8	00	0	20	00	20	SCSP
8	Horticultural	Horticultural	March	03	PF&RY	01	0	0	00	17	5	00	17	5	00	22	World vision

Photograph Sponsored Training Programmes

Training on Goat farming at KVK, Saraiya

Training on Poutry farming at KVK, Saraiya

Fifteen Day INM for Fertilizer Dealers

Seven day beekeeping training

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

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	**F**	**T**	SC/ ST (% of total)	**Male**	**Female**	**Total**	**Male**	**Female**	Total
Field Day	13	176	16	192	14	2	1	3	178	17	195
Kisan Mela											
Kisan Ghosthi	34	1131	650	1781	17.7	18	11	29	1149	661	1807
Exhibition	1	23	24	47	13.0	0	0	0	23	24	47
Film Show	24	901	705	1606	18.7	28	16	44	929	721	1650
Method Demonstrations	17	315	170	496	18.5	6	5	11	321	175	496
Farmers Seminar	1	38	2	40	19.11	4	3	7	42	5	47
Workshop											
Group meetings	15	66	13	79	2.5	8	5	11	74	18	92
Lectures delivered as resource persons	16	1400	450	1850	13.7	240	102	342	1640	552	2192
Advisory Services	1111	1094	73	1179	6.4	16	4	20	1110	77	1187
Scientific visit to farmers field	201	193	18	211	5.9	5	1	6	198	19	217
Farmers visit to KVK	910	901	55	968	6.9	11	3	14	912	58	970
Diagnostic visits	298	234	54	298	9.0	0	0	0	234	54	298
Exposure	10	247	261	508	7.8	5	8	13	252	269	521

visits											
Special Programmes (specify)	29	1201	495	1696	11.6	74	15	89	1275	510	1785
Swatchta Hi Sewa	13	252	46	298	3.2	0	0	0	252	46	298
Any Other Agro advisory Mobile Service	72	19011	1012	20,012	9.8	1130	402	1532	20141	1414	21555
Total	**2765**	**27183**	**4044**	**31261**	**-**	**1547**	**576**	**2121**	**28730**	**4620**	**33357**

A. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	26
Radio talks	0
TV talks	5
Popular articles	6
Extension Literature	-
Other, if any(Technical report)	

B. Celebration of important days

Celebration of Important Days	No. of activities	Farmers				Extension Officials			Total		
		M	F	Total	SC/ ST (% of total)	M	F	Total	M	F	Total
ICAR foundation day	1	17	3	21	9.52	4	2	6	21	5	26
international women day	1	0	54	54	7.40	5	2	7	5	56	61
Azadi ka Amrit Mahotsava	03	16	12	38	13.15	04	02	6	20	14	34
Swachhata Compaign	01	0	40	40	5.45	05	02	07	5	42	47
Mahila Kisan Diwas	2	26	7	33	6.30	03	02	5	29	9	38
World Food Day -(MIS)	2	6	23	27	5.75				6	23	29
Poshan Vatika Mahaabhiyan and Vriksharopan	03	78	65	143	11.45	4	3	7	82	68	150
Farmer Sc. Interface on CRA Technology and Varieties	4	96	81	177	12.51	5	1	6	101	82	183
Azadi ka Amrit Mahotsava (Food & Nutrition for Farmer	4	67	40	107	15.25	05	03	08	72	43	115
Orgenic Farming	1	50	0	50	21.49	4	1	2	54	1	55
World Milk Day	2	90	6	96	20.56	4	3	7	94	9	103
World environment day	2	8	3	11	9.4	4	3	7	12	6	18

World water day	01	16	12	28	7.47	4	3	7	20	15	35
virtual horticulture fair	1	25	15	40	17.85	4	3	7	29	18	47
Vanijya Utsav	1	23	24	47	17.51	4	3	7	27	27	54
World soil day,	1	38	2	40	19.11	4	3	7	42	5	47
Zero budget natural farming	3	130	170	300	27.52	4	3	7	134	173	307
Total	**33**	**686**	**557**	**1252**	**-**	**67**	**39**	**103**	**753**	**596**	**1349**

Other programme

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Natural Farming	1	107	130	237	23	40	63	0	0	0	130	170	300
Farm Machinary	1	19	5	24	26	0	26	0	0	0	46	5	50
Azadi ka Amrit Mahotsava (Agri. And Environment the citizen face)	1	0	40	40	0	0	0	0	0	0	0	40	40
E-Chaupal (Micro Irrrigation)	1	26	4	30	0	0	0	0	0	0	26	4	30
Swachhata Compaign	1	26	7	0	0	0	0	0	0	0	26	7	33
Poshan Vatika Mahaabhiyan and Vriksharopan	1	60	65	125	18	0	0	0	0	0	78	65	143
Farmer Sc. Interface for CRA	1	81	69	150	15	12	27	0	0	0	96	81	177
E-Chaupal (Soil Health Management)	1	20	5	25	0	0	0	0	0	0	20	5	25
Azadi ka Amrit Mahotsava (Food & Nutrition for Farmer	4	62	22	84	5	18	23	0	0	0	67	40	107
E-Chaupal (Soil Helth Management)	1	33	2	35	4	1	5	0	0	0	37	3	40
Farm Machinery	1	31	0	31	2	0	2	0	0	0	32	0	32
E-Chaupal (Irrigation water management)	1	20	10	30	5	2	7	0	0	0	25	12	37
World Milk Day	1	90	6	96	0	0	0	0	0	0	90	6	96

World environment day	1	8	3	11	0	0	0	0	0	0	8	3	11
Balance use of fertilizer	1	31	3	34	0	0	0	0	0	0	31	3	34
World water day	1	14	9	23	2	3	5	0	0	0	16	12	28
virtual horticulture fair	1	22	11	33	3	4	7	0	0	0	25	15	40
Mushroom Cultivation and Value added Products(E-chupal)	1	13	15	28	2	2	4	0	0	0	15	17	32

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

Sl.	Date of event	Name of Event/Programme	Interaction of Hon'ble PM/AM	Participants			
				Farmers	Staffs	VIP/Others	Total
1	17.7.2021	Poshan Vatika Mahaabhiyan and Vriksharopan	PM	150	12	-	162
2	28.09.2021	Farmer Sc. Interface on CRA Technology and Biofortified Varieties	PM	183	12	-	195
3	26.09.2021	Vanijya Utsav	Minister of commerce & industry	54	12	-	67
4	16.12.2021	Zero budget natural farming	PM	300	13	-	313



Poshan Vatika Mahaabhiyan and Vriksharopan






Farmer scientist meeting on climate friendly technology and differentiation





Poshan Vatika Maha Abhiyan and Tree Plantation


ICAR, Foundation day celebration


Celebration of thr Jai Jawan Jai Kisan at KVK, Saraiya


Zero Budget Natural Farming (ZBNF)

Celebration of the Jai Jawan Jai Kisan at KVK, Saraiya


Zero Budget Natural Farming (ZBNF)

3.5a. Production and supply of Technological products

Village seed

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

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Wheat	HD 2967	40.5	174150.0	-	-	-	
Rai	R. Suflam	8.8	90430.00	-	-	-	
Green gram	IPM-2-3	0.25	3250.00	-	-	-	
Grand Total		49.55	267830				

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
Vegetable seedlings							
Cauliflower		500		4	0	16	20
Cabbage		500					
cucurbites		200					
Beans		50					
Tomato		2012		55	0	336	391
Brinjal		500		1		1	2
Chilli		1000					
Onion							
Bottle Gourd							
Bitter Gourd							
Fruits							
Mango							
Guava							
Lime							
Papaya		305		23	0	87	110
Banana							
Others							
Ornamental plants							
Medicinal and Aromatic							

Plantation							
Spices							
Turmeric							
Tuber							
Elephant yams							
Fodder crop saplings							
Forest Species							
Others, pl.specify							
Total		**5067**		**83**	**0**	**440**	**523**

Production of Bio-Products

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

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
Dairy animals							
Cows							
Buffaloes							
Calves							
Others (Pl. specify)							
Small ruminants							
Sheep							
Goat							
Other, please specify							
Poultry							
Broilers							
Layers							
Duals (broiler and layer)							
Japanese Quail							
Turkey							
Emu							
Ducks							
Others (Pl. specify)							
Piggery							
Piglet							
Hog							

Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Mixed carp				
Fish fingerlings				
Spawn				
Others (Pl. specify)				
Grand Total				

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

i) **Name of Seed Hub Centre**:

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

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	**Area sown (ha)**	**Production**	**Category of Seed (F/S, C/S)**
Kharif 2020						
Rabi 2020						
Summer/Spring 2020						

iii) Financial Progress

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

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 paper	Assessment of groundwater potential zone using GIS-based multi-influencing factor (MIF), multi-criteria decision analysis (MCDA) and electrical resistivity survey techniques in Raipur city, Chhattisgarh, India	Jhariya, D.C., Khan, R., Mondal, K.C., Kumar, T. and Singh, V.K.,	AQUA—Water Infrastructure, Ecosystems and Society, 70(3), pp.375-400.	Online
Research paper	Dietary Diversity with Dried Moringa Leave Powder and Amla Juice to Increase Haemoglobin levelof Adolescent girls of Farm Families.	Kumari Sunita, Y.Prabhawati Devi, I. Bhupenchandra, K. Bhagya Lakhmi, Savita Kumari, A. Kumari and Ajeet Kumar	Journal of Community Mobilization and Sustainable Development, volume – 16, No.-2, May- Aug 2021:619-625.	Online
Seminar/conference/ symposia papers				
	"Challenges and Technological Solutions for Ensuring Food, Water and Energy Security" & International Symposium on "Emerging Trends in Agricultural Engineering Education, Research and Extension"	Tarun Kumar	The 55th Annual Convention of ISAE will be organized during 23-25 November 2021	
	Biodynamic calendar and technological interventions for horticultural sustainability and health security in changing climate	K. K. Singh	College of horticulture, Bihar, UHS, Bagalkat, Rajsthan from 21.1.2021 to 23.01.2021	
Webinar attended				
Natinal Seminar	Promotion of DSR Prospect and chalenges during COVID-19	K. K. Singh	Natinal Seminar	
Books				
	Glossary of Terms and Terminology in Community, Extension and Socil Sciences	P. Muthuramun, Neelam Kumari, Savita Kumari and K.C. Siva Balan	Parmar Publication	
Bulletins				
News letter				
Popular Articles				

	Krishi yantra ka rakh rakhao ke aasan tarike	Tarun Kumar, Anupma Kumari and S. K. Gupta	AAdhunik Kisan, DRPCAU, PUSA, 2021/78	
	Tamaatar dvaara svasthy sanvardhan evan pratiraksha vikaas	Shashank Shekhar Solanki, M. Kumaru, H. Kumar, K. K. Singh and V.B Jha	krishak sandesh	
	Baingan kee aadhunik khetee dvaara adhik utpaadan, naveen krshi paddhatiyon dvaara kisaano ke aay me vrddhi (smaarika) kisaan mela	Shashank Shekhar Solanki, S. Akhatar, H. Kumar, K. K. Singh	Bihar agriculture university, sabour, bhaagalapur,	
	jaivik khetee- mukhy ghatak evan laabh, naveen krshi paddhatiyon dvaara kisaano ke aay me vrddhi (smaarika)	K. K. Singh, Sudeshna Das, S.K. Gupta, Sunita Kumari, and S.S. Solanki	Bihar agriculture university, sabour, bhaagalapu,	
	Tamaatar ke pramukh rog evan nidaan	Shashank Shekhar Solanki, K. K. Singh and V.B Jha	krishak sandesh	
	Jaivik khetee istemaal se mittee kee sehat bachao bachaana sambhav pradooshan par bhee niyantran	K.K. Singh and sheelaajeet singh	Dainik Bhaaskar	
	Zero tillage se gehoom kee kheti kar behatar munaapha paye	Sunita Kumari geeta Kumari and kamalesh kumaar singh	krishak sandesh, Bihar agriculture university, sabour, bhaagalapu	
Book Chapter				
Extension Pamphlets/ literature				
Technical reports				
	Annual report, 2020-21 DAMU Project	Tarun Kumar	KVK Saraiya, Muzaffarpur	1
	Annual Report 2021	Santosh Kumar Savita Kumari, K.K.Singh & Tarun Kumar	KVK Saraiya, Muzaffarpur	1
	5th Extension Council Report	Santosh Kumar Savita Kumari, Dr. K.K.Singh & Tarun Kumar	KVK Saraiya, Muzaffarpur	1
	CSISA Report 2020-21	S K Gupta & Tarun Kumar	KVK Saraiya, Muzaffarpur	1
	CFLD Report 2020-21	Santosh Kumar Gupta & K.K.Singh	KVK Saraiya, Muzaffarpur	1
	SAC Report, 2020-21	Santosh Kumar Savita Kumari, K.K.Singh &	KVK Saraiya, Muzaffarpur	20

		Tarun Kumar		
	Innovative Farmers Award 2021	Santosh Kumar Dr. Savita Kumari, Dr. K.K.Singh & Tarun Kumar	KVK Saraiya, Muzaffarpur	5
Electronic Publication (CD/DVD etc)				
TOTAL				

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Roadmap for KVKs to enhance mushroom production and consumption	Mushroom Cultivation	Savita Kumari, SMS, Home Science	09.08.2021 to 11.08.2021	Indian Institute of Horticulture Research, Hesaraghatt lake, Bengaluru.
2.	Online Training Progarmme for SMS, Community Science	Preparetion of fish Cookies from Localy available fish spacies in Bihar	Savita Kumari, SMS, Home Science	30.07.2021	College of fisheries, Dholi, DRPCAU, PUSA

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

Name of farmer	Sanjay Kumar Yadav
Address	**Mohmdpur baya,** Saraiya, Muzaffarpur, (Bihar)
Contact details (Phone, mobile, email Id)	***995596624***
Landholding (in ha.)	***2.25*** Acre
Name and description of the farm/ enterprise	Production of vegetables through drip irrigation and Poly house with polythene mulching
Economic impact	He got training on Integrated Farming System and allied activities from Krishi Vigyan Kendra Saraiya . He hardwork and dedication helped him establish a model integrated farm with help and support from him family. He developed our farm with new improved technologies like polyhose, shadenet house, mulching, and drip irrigation. He started capsicum cultivation, grapes cultivation and vegetable cultivation. He has a farm pond, a polyhouse, Drip Irrigation tractor, rotavator including all

	farm machineries. **ACHIVEMENTS:** • Production of vegetables through drip irrigation with polythene mulching • Farm mechanization • Poly house– Production of capsicum, tomato & beans production. He has been estimated that the yield under polyhouse farming can be achieved at a higher level – say about 4-8 times as compared to farming done in open field. It has led to improved production through better quality of produce, increasing the income by 60%. The farmer used to get annual income of Rs. 0.69 Lakh from Wheat, paddy, potato, milk, and goatery farming etc. He faced problems like high yielding of seeds, soil alkalinity, flood and drought etc. With interventions like intercropping, zero tillage, polyhouse farm mechanization, and livestock, poultry etc., he is getting annual income of Rs 3.76 Lakh. In addition, there is cost saving of Rs.0.35 Lakh in the production of wheat, paddy, potato, milk, poultry farm, maize and vagetable production etc
Social impact	Many farmers and youth visit him farm regularly to take a glimpse of him success and many have followed his footsteps. He became a role model for farmers within Muzaffarpur. He became a successful well settled poly house farmer and inspiring many other farmers in the village for vegetable cultivation.
Environmental impact	He protected the environment through polyhouses farming. Polyhouses primarily used to extend the growing period of crops or to increase the off-season yield by controlling the light, 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 m vative sfer 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.	Apple Farming	Avinash Kumar, Bhatolia	Growing apple in tropical region.
2.	Straw berry 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.	Roof top rain water harvesting Structure	Rajesh Kumar ranjan, Avinash Kumar, Shrikant Kushwaha	This technology raise the ground water level

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

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Mushroom	Steam sterilization of Straw by using pressure cooker and drum	To save water and time.
2.	Vegetable	Intercropping of cucurbits with cauliflower through mulching	It will save the time and space as well as weed population. Also increases the income by taking off season vegetable.

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	30 ha	Cauliflower- 221 q/ha Carrot-114 q/ha Tomato-326 q/ha Lady finger-123 q/ha Amaranthus-124 q/ha Spinach-76 q/ha Bitter gourd-109q/ha Potato – 210 Q/ha Oyster Mushroom – 1 kg per kg straw used	70	yes

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.	Kheldahl 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**
15	251	266

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

Sl.	Analysis	No. of Samples analyzed	No. of Villages	No. of Farmers	Amount realized (Rs.)
1.	Soil	266	107	266	35240.00
2.	Water	10	1	1	500.00
3.	Plant				
4.	Fertilizers				
5.	Manures				
6.	Food				
7.	Others (if any)				

3.11.d. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1.	Seminar	40	1	Padamsree Rajkumari Devi	15	40

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.)
14	4	200	368	5

3.13. Technology week celebration

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

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

No of student trained	No of days stayed
7	150 days

ARS trainees trained	No of days stayed
-	-

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
22/01/2021	Vice Chancellor, DRPCAU, Pusa	Monitoring of KVK Activity
07/03/2021	Director, ATARI	Meeting with KVK Farmers
05/12/2021	Padamshree, Rajkumari Devi	Chief Guest during world soil day
09/12/2021	MLA, Paroo	SCSP programme

4. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
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.
Roof Top Rain Water Harvesting Structure	The farmers are largely adopting the technology of roof top rain harvesting system. Ten additional farmers have installed this structure in last year.
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.

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

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms
1)	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, *Azotobacter*, *Azospirillum* cereals and oilseed and *Rzhizobium* 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.	60%
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.	4 %
14)	Mushroom cultivation	Income generation in rural youth/ women	10%

4.4. Details of innovations recorded by the KVK

Thematic area	Fish Farming

Name of the Innovation	Construction of portable aquarium
Details of Innovator	Rakesh Kumar, Dwarkanathpur
Back ground of innovation	Requirement of fresh fish
Technology details	The glass aquarium has been constructed on bolero van to sell fish directly from pond to market.
Practical utility of innovation	With the use of portable aquarium the fresh fish can be sold at door to door.

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Mushroom production.
Name & complete address of the entrepreneur	Mrs Chunni Devi, Village : Biadih, 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 and after the enterprise	Before starting mushroom production she was earning Rs 12000 per month as worker. But now he is earning 1.2 lakh in six month by mushroom production along with earning from farming also.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference,	Present working condition of this enterprise is full of opportunities in terms of mushroom production, value added product production, animal feed production, etc. For all these items the raw material i.e. straw (for oyster and milky mushroom production) compost (for button mushroom production) casing material, wheat (for spawn production) are easily

marketing the product etc. (Economic viability of the enterprise)	available at low cost at village level. Mushroom grower have their own raw material produced and as agricultural waste. The value added product can be easily prepared by using the traditional knowledge of farm women 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 give new taste so easily sold at good profit.
Horizontal spread of enterprise	Fifteen farmers and five farm women of neighbouring villages started button and milky mushroom production. They are selling 5-10 kg mushroom per day in this season and selling it Rs. 120 kg to rs.180 kg. Specially 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.

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 Agency (ATMA) Muzaffarpur	Sponsored Training Programme , Training and field visit
Department of Horticulture govt. of Bihar	Joint participation in meetings for NHM Joint implementation of training programme
Word vision, Muzaffarpur (NGO)	Field visit and training, Technical support
All departments of R.A.U., Pusa	Technical Guidance on Training and other Extension activities.
National Research centre on Litchi	For training & demonstration.
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 2021 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies (information of previous years should not be provided)

a) Programmes for infrastructure development

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

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

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

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area(Sq.ft)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Mushroom spawn unit	2012	120	-	-	-	-	-	Demonstration purpose
2.	Mushroom production unit	2015	600	-	-	-	-	500	
3.	Vermicompost	2009	400				8000		
4.	Azolla		300	-	-	-	-		Demonstration purpose
5.	Poly house	2020		Cucurbits,tomato, brinjal capsicum and chilli	Chili Brinjal, Culiflower, Cabbage, Cucurbits, Beans, papaya, Citrus	1000 500 500 500 200 50 305 15		130000.00	
6	Shed net	2020							
7.	Zero energy cool chamber	2017	1.33						Demonstration purpose

8	Low cost onion storage structure	2017	1.71	-	-	-	-	-	For demonstration purpose

6.2. Performance of Instructional Farm (Crops)

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy			2.0	Rajendra Bhagawati	Seed	Spoiled due to flood			
Wheat	03/12/2020	17/04/2021	3	HD2967	Seed	40.5	81134	174150.00	
Rye	24/10/2020	25/03/2021	2	R.Suflam	Seed	8.23		90430.00	
Green gram	13/04/2021	14/06/2021	2	IPM-2-3	Seed	0.25	45463	3250.00	Crop Loss due to flood

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

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	13.33	-	8000.00	

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

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

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January-Feb	5	40 days	Nil
March	25	7 days	Nil
March	25	7 days	Nil
Oct-Nov	34	15 Days	Nil
December	40	3 Days	Nil
December	40	3 Days	Nil

(For whole of the year)

6.6.Utilization of staff quarters

Months	Q I	QII	Q III	QIV	Q V	QVI
Whether staff quarters has been completed:						
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)*

Item	Released by ICAR		Expenditure		Unspent balance as on – Dec.2021
	Kharif	Rabi	Kharif	Rabi	
Rapeseed & mustard	00	96000.00	00	160241.00	(-)64241.00

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

Item	Released by ICAR		Expenditure		Unspent balance as on Dec.2021
	Kharif	Rabi	Kharif	Rabi	
Chickpea	00		00	160215.00	(-)4854.00
Lentil	00		00	168639.00	
Total	00	324000.00	00	328854.00	

7.4. Utilization of KVK funds during the year 2021 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	1,20,00,000.00	5090000.00	11310358.0
2	Traveling allowances	60000.00		38070.00
	HRD	30000.00		00.00
3	Contingencies			
A	Office head	500000.00		377579.00
B	Training head	200000.00		150239.00
C	FLD	100000.00		24980.00
D	OFT	75000.00		27116.00
E	Maintenance of building	50000.00		47500.00
F	Extension Kisan Mela	50000.00		00.00
G	**Sub-TOTAL(2+3)**	**1065000.00**	**1065000.00**	**627414.00**

H				
I				
J	Swachhta Expenditure	20000.00	20000.00	20000.00
TOTAL (A)		**13085000.00**	**6175000.00**	**11957772.00**
B. Non-Recurring Contingencies				
1				
2				
3				
4				
TOTAL (B)		00.00	00.00	00.00
C**. REVOLVING FUND**		0	414756.00	**239357.00**
GRAND TOTAL (A+B+C)		**13085000.00**	**6589756**	**12197129**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
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	665064.90

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 Abhiyan	6	Kharif	Yes	Yes	Yes
Rabi Mahaabhiyan	5	Pre-Rabi	Yes	Yes	Yes
Kisan Pathshala	1	Rabi	Yes	-	-
Acrredation of Nursery	1	Rabi	Yes	-	-
visit of demonstration unit	1	Rabi	Yes	Yes	Yes
Certificate Course	1	Rabi	Yes	-	-
Scientist farmers intraction programme	1	Rabi	Yes	Yes	Yes
Crop damage assessment	2	Kharif	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/ Morbidity rate (%)	Number of animals vaccinated	Preventive measures taken in pond (in ha)
FMD	Bovines	July, Aug 2021	2%	Vaccination ongoing	-

9.1. Nehru Yuva Kendra (NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

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

Type of message	No. of messages	No. of farmers covered
Crop		
Livestock		
Fishery		
Weather	104	1850
Marketing		
Awareness		
Training information		
Other		
Total	104	1850

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	50
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.	Metrology	104	104	1850
2.	Agriculture and allied	360	360	750

9.6. a. Observation of Swachha Bharat Programme/Pakhwara

Date/ Duration of Observation	Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
16/12/2021	Display of banner at prominent places, taking Swachhata pledge	10	3	-	13
17/12/2021	Cleanliness drive including cleaning of offices, corridors and premises of kvk	10	12	-	22
18/12/2021	Cleanliness and sanitation drive in the villages adopted by kvk	10	6	-	16
19/12/2021	Cleanliness and sanitation drive within campuses and surroundings including residential colonies	10	6	-	16
20/12/2021	Waste to wealth practice	10	17	-	27
21/12/2021	cleaning of sewerage & water lines	10	-	-	10
22/12/2021	conversion of waste to wealth, safe disposal of all kinds of wastes	10	18	-	28
23/12/2021	Celebration of Special Day-KisanDiwas (Farmer's Day)-23 December inviting farmers.	10	30	-	40
24/12/2021	Swachhta Awareness at local level	10	22	-	32
25/12/2021	Awareness on waste management & other activities including utilization of organic wastes.	10	21	-	31
26/12/2021	Organising Webinar	7	2	-	9
27/12/2021	Polythene free and waste to best management	10	17		27
28/12/2021	Water harvesting in kitchen garden	10	30	-	40
29/12/2021	Community waste disposal site management	10	17		27
30/12/2021	VIP involvement in Swachta	10	40		50
31/12/2021	Press conference	10	17		27

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	5	25470.00 -
2. Basic maintenance	-	
3. Sanitation and SBM	-	
4. Cleaning and beautification of surrounding areas	25	
5. Vermicomposting/ waste-decomposer	150	

Composting of biodegradable waste management & other activities on generate of wealth for waste		
6. Used water for agriculture/ horticulture application	-	
7. Swachhta Awareness at local level	12	
8. Swachhta Workshops	-	
9. Swachhta Pledge	1	
10. Display and Banner	1	645.00
11. Foster healthy competition	-	
12. Involvement of print and electronic media	1	
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	2	
14. No. of Staff members involved in the activities	6	
15. No of VIP/VVIPs involved in the activities	1	
16. Any other specific activity (in details)	-	
Total	**-**	**26115.00**

9.7. Observation of National Science day

Date of Observation	Activities undertaken

9.8. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants

9.9. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used
Project Girls High School, Saraiya	17.09.2021	Azadi Ka Amrit Mahotsava, Importance of millets	Lecture and power point presentation
Project Girls High School, Saraiya	19.11.2021	Importance of Agriculture	Live demonstration
Project Girls High School, Saraiya	20.11.2021	Importance of Agriculture	Live demonstration
Project Girls High School, Saraiya	26.11.2021	programme on Agri. And Environment the citizen face	Lecture and Live demonstration

Give good quality 1-2 photograph(s)

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

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

9.11. Details of Swachhta Hi Sewa programme organized

Sl no.	Activity	No. of villages Involved	No. of Participants	No of VIPs	Name of VIPs
1.	Cleaneness awareness among school children, village youth (6.10.2021)	2	33	-	-
2.	Special Swachhta programme for cleaniness of KVK (12.10.2021)	-	22	-	-
3.	Special Swachhta programme in offices of KVK (18.10.2021)	-	22	-	-
4.	Special Swachhta programme in October in premises of KVK (27.10.2021)	-	11	-	-

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 and Debate	1	12	-	-

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1.	Sri Anil Kumar	Basudevpatti, Saraiya 9162636034	Mushroom cultivation
2.	Smt Chunni Devi	Bayadih, Saraiya 8409552325	Mushroom cultivation
3	Sri Abhishek Ranjan	Saraiya 8210899601	Bee keeping

9.14. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Traning hall charge/Kisan hostel	18000.00	NBB, Govt. of Bihar, DADF
2.	Demonstration Unit Mushroom Fish Vermi-compost Kitchen Garden	8000.00	KVK Saraiya
3.	Agriculture residue (Straw)		KVK Saraiya
4.	Seedling (Vegetable)	13000.00	KVK Saraiya
5.	Seedling(Paddy)	10000.00	KVK Saraiya
6.	Vegetable(Potato)	5000.00	KVK Saraiya
7.	Seed (Wheat) RAI Paddy	261492.00	KVK Saraiya
8.	Soil testing	33240.00	KVK Saraiya
9.	RAWE (Fee)	20000.00	
10.	Institutional charge (INM Training)	39773.00	DAO, Muz.
11.	Custom Hiring Center	85000.00	KVK, Saraiya

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	96000.00	
2.	CRA	For climate resilience agriculture	ICAR	70000.00	
3.	CSISA	To increase the production of cereal	ICAR	90,000.00	
4.	SCSP	For empowerment to Scheduled castes	ICAR	38100.00	
5.	SAP	Sawachtta	ICAR	20000.00	
6.	APEDA	Capecity bulding	ICAR	20000.00	
7.	NARI, Project	Kitchin Garden	ICAR	50000.00	
8.	INM Training	Capecity bulding	ATMA, Muzaffarpur	437500.00	

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
2021	IMD, Pune	Functional

9.17. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Bihar	Muzaffarpur	Pest management	one	51	The training programme was oranized for control of fall army worm with the help of district plant protection officer in fall army worm infestation prone area (Bochha block)

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

a) Year: 2020-21

b) Introduction / General Information:

Experiment	Title	Objective	Treatment details	Date of sowing	Replication	Result with photographs
Experiment 1	**Direct seeded rice under *Vattar* conditions (after pre-sowing irrigation or equivalent pre-monsoon rains)**	Assessment of yield performance of DSR under pre-sowing irrigation.	DSR with pre-sowing irrigation followed by post sowing irrigation at 15-21 days after sowing DSR in dry soil followed by irrigation on the same day Puddled transplanted rice (Check)	10 June to 10 July	**7**	The treatments in which pre sowing irrigation was applied at 21 DAS in DSR than Puddled transplanted rice (Check) revealed that DSR performed better than Puddled transplanted rice.
Experiment 2	Weed management in direct seeded rice.	Assessment of weed Management in DSR.	Two manual weeding Tank mix of Bispyribac + pyrazosulfuron at 20+20 gm a.i./ha at 15-25 DAS + One spot hand weeding as needed Tank mix of Vivaya (premix combination of Penoxulam + cyhalofop) + Almix at 2-4 leaf stage at 15-25 DAS + one spot hand weeding Triafamone + ethoxysulfuron (Council active, 60 g ai/ha) at 2-3 leaf stage at 15-20 DAS + one spot hand weeding Tank mix of fenoxaprop (Ricestar, 90 gai/ha) +	21 June to 7 July	10	Application of Bispyribac + pyrazosulfuron at 20+20 gm a.i./ha at 21 DAS + One spot hand weeding for weed Management in direct seeded rice dominated revealed that treatment of Bispyribac + pyrazosulfuron at 20+20 gm a.i./ha at 21 DAS + One spot hand weeding provided better yield followed by treatment Bispyribac 250 ml+ Pyrazosulfuron 100g/ha. The overall economics show cost involved is higher in one manual weeding than different herbicide combinations.

			ethoxysulfuron (15 g ai/ha) at 2-4 leaf stage at 15-25 DAS + one spot hand weeding			
Experiment 3	**Effect of rice crop establishment methods on the growth and yield of wheat**		*Vattar* Direct seeded rice followed by zero tillage wheat Transplanted rice followed by zero tillage wheat.	July 1 to 20 August	07	in Progress
Experiment 04	**Reducing seed rate in rice through Rice Nursery Enterprise**		7.5-acre area transplanted from 0.5 acre of rice nursery	01 June to 15 July	07	in Progress

Different trial under CSISA Project

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 etc.)		

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 implements/ tools etc.	No. per household	-

d. Location and Beneficiary Details during 2017-18

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

12. Details of SCSP

Sl.	Activities	Physical Achievement	
1)	Trainings	No. of Trainings/Demos	No. of beneficiaries
a.	Farmer	-	-
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	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	

Crop Management

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

Livestock and fisheries

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

				M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**	

Institutional interventions

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

Capacity building

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

Extension activities

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

Detailed report should be provided in the circulated Performa

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

Sl. No.	**Name of the Award**	**Conferring Authority**	**Amount**	**Purpose**
1.	Best KVK Scientist (Dr K K Singh)	Kausambi Foundation India, Agra	-	Promotion of Research and extension in KVK
2.	Excellence in Extension Award (Dr Savita Kumari)	ICFAI-2021	-	Promotion fo Extension in KVK
3	Outstanding Home Scientist Award (Dr Savita Kumari)	DISHA-2021	-	Promotion of Home Science Reserach

b) Award received by Farmers in year 2021

Sl.	**Name of the Award**	**Name of the Farmer**	**Address**	**Contact No.**	**Aadhar No.**	**Amount**	**Purpose**	**Conferring Authority**
1.	Innovative farmer Purskar	Smt. Rekha Devi	Vill-Manikpur	7654652707	448701380888	5000	Lac bangle making with involvement of rural ladies.	DRPCAU, Pusa

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: 71 ha.
- Mini sprinkler: 62 ha.

Drip Kit

Mini sprinkler

a. Gramin Krishi Mausam Sewa (GKMS)

✓ Weather and climate information plays a vital role in agricultural production and management. In order to provide the weather based information and agro-advisories needed for the taluka level farming community, India Meteorological Department (IMD) in collaboration with ICAR has set up District Agro-Met Unit (DAMU) under Gramin Krishi Mausam Seva (GKMS) scheme.

✓ Agro-advisory services are the farm decisions taken in response to past, current and future weather change. It includes agronomical, pest and disease management, water and soil conservation, seeds and fertilizer input management spray of insecticides, pesticides and weedicides etc.

- ✓ This helps the farmers to take weather related sensitive decisions like sowing / transplanting of seedlings, pesticides, weedicides and fertilizer application, scheduling timely irrigation, timely harvesting of the crops, post-harvest storage of the harvested crop, forewarnings of livestock related diseases and vaccination of livestock and poultry birds

Training under DAMU

Farmer taking an Agro-advisory on mobile

b. Income Generation by Master trainer

- ✓ Master Trainer development in different field like mushroom production, Beekeeping, organic farming micro irrigation etc
- ✓ Their services are utilized by different organization like Jeevika, ATMA, NGOs etc
- ✓ During May 2021 "Going to School" NGOs has paid Rs. 14000 to more than 15 master trainers for conducting their training.

Master Trainer Training in different field like mushroom production, Beekeeping, organic farming micro irrigation

c. Vermicompost Unit

- ✓ Newly constructed 20 vermicompost unit under PKVY at adopted village (Ratanpura), Motipur, Block.
- ✓ Farmers growing Organic vegetables

Newly constructed 20 vermicompost unit under PKVY at adopted village (Ratanpura), Motipur, Block

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

Sl. No.	Name of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
1.	Saraiya Kisan farmer producer company limited	053108, 26.07.2021	26.07.2021 Ramsagar Choudhary Bhatoliya, Saraiya Muzaffarpur	Production	Wheat	300	3 lakh	Production and marketing

17. Integrated Farming System (IFS)

A) Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
	Pond based	1	Fish and Horticulture crops	-	-	5	40%

B) Activities under IFS

Sl. No.	Component Name	No. of Components established	Area (ha)	No. of Activities		No. of farmers benefited	
				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

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	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.	110000.00 (on the basis of per unit of 600m^2)	24	
2	Backyard poultry	• It can be reared on kitchen based without any extra cost. • The percentage of disease is manageable.	3000.00 per year per unit	500	
3	Vericompost	• High quality compost prepared in 45-60 day. • More than 6 times beneficial in compare to general compost.	18000 per year per unit	80	

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	

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

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I (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.)
2016-17	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2017-18	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2019	Job role for mushroom 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	13-01-2020	17-02-2020	20	yes	180000.00
	Micro – irrigation technician	Dr. Tarun Kumar	13.01.2020	17.02.2020	20	yes	210800.00
2021	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

Thematic area of training	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	

22. Information of NARI Project (if applicable)

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

Progress Information of NARI Project

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

Sl.	Name of Nutri-Smart Village	Type of Nutrition Garden	Number	Area (sqm)	No. of beneficiaries
1.	Brahmsthan Rohua Rajaram Gannipur Dariyapur Berai	Backyard/Kitchen garden/community level	01 01 01 01 01	185sq ft 880 sq ft 300 sq ft 200 sq ft 450 sq ft	40 40 40 40 40
3.		Terrace Garden			
4.		Vertical Garden			
TOTAL			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 beneficiaries

c. Value addition in Nutri-Smart village

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

d. Training programmes in Nutri-Smart village

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

e. Extension activities under NARI Project

Name of Nutri-Smart Village	Title of Activity	No. of activities	No. of beneficiaries
Saraiya	Training on kitchen garden	2	17

23. Activities under KSHAMTA

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

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

Krishi Kalyan Abhiyan- I/II

A. Training

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

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

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

C. Livestock and Fishery related activities

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

D. Other activities

Name of programme	Activities	No. of farmers benefited									No. of other officials (except KVK) attended the programme
		SC		ST		Others		Total			
		M	F	M	F	M	F	M	F	T	
KKA-I											
KKA-II											

Krishi Kalyan Abhiyan- III

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

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

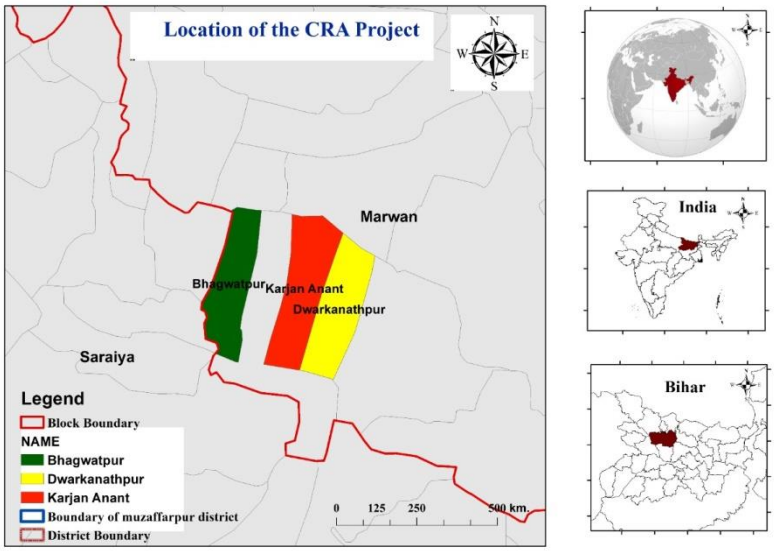
Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants

Project Details

1. Climate Resilient Agriculture Program-2021

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 **Glyphosate, Pendimethalin, Broadway, Saaf and Lamda** have been distributed. Several **exposure visits** from the Non-CRA villages to the fields of CRA villages have been 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 Kharif and Rabi season crop trials are given below:

Kharif season crop trials 2021

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	50	132	50	100
Potato based farming system	03	26	03	100
Total	368	705	368	

INPUT DETAILS FOR RABI 2021

Seed Varieties

- ✓ Wheat – HD2967, HD2733
- ✓ Maize – SNH5533
- ✓ Potato – Kufri Sindoori
- ✓ Lentil – HUL57
- ✓ Mustard - Rajendra Shufalam

Critical inputs

- ✓ Wheat – Glyphosate (Pre-sowing herbicide), Pendimethalin (Pre-emergence herbicide), Broadway (Herbicide)
- ✓ Maize – Pendimethalin (Pre-emergence herbicide)
- ✓ Potato – Carbendazime+Mancozeb (Fungicide) Lambda (Insecticide)
- ✓ Lentil – Pendimethalin (Pre-emergence herbicide), Carbendazime+Mancozeb (Fungicide)
- ✓ Mustard – Carbendazime+Mancozeb (Fungicide), Lambda (Insecticide)

RESULTS (RABI 2021)

Crops	**Grain yield (q/ha)**		**Straw yield (q/ha)**		**Net Return (INR)**		**B:C Ratio**	
	Demo	**Check**	**Demo**	**Check**	**Demo**	**Check**	**Demo**	**Check**
Wheat	30.0	28.0	55.0	52.0	27,750	20900	1.93	1.63
Maize	55.0	46.0	128.0	107.0	63350	48020	2.60	2.26
Potato	125.0	110.0	46.0	40.0	86000	71000	3.15	2.78
Lentil	12.5	8.0	20.5	15.0	35,000	12,400	2.40	1.48
Mustard	18.0	13.0	38.3	27.6	48650	27525	2.57	1.92

Summer season crop trials 2021

Interventions	**Physical Target (Acre)**	**No. of Beneficaries**	**Target Achieved (Acre)**	**Achievement (%)**
Zero tillage of Moong bean	**150**	**201**	**150**	**100**
Total	**150**	**201**	**150**	

INPUT DETAILS (SUMMER 2021)

Seed Varieties

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

Critical inputs

- ✓ **Seed treatment – Rizobium + PSB**
- ✓ **Fungicid – Carbendazime**

Results Summer 2021

Crops	Grain yield (q/ha)		Straw yield (q/ha)		Net Return (INR)		B:C Ratio	
	Demo	Check	Demo	Check	Demo	Check	Demo	Check
Moong bean	12	8	21	15	54352	23568	2.70	1.69

SEASONAL DETAILS OF KHARIF 2021

Interventions	Physical Target (Acre)	No. of Beneficaries	Target Achieved (Acre)	Achievement (%)
Direct Seeded Rice with climate resilient varieties	180	65	46	26 (Rest 134 acre converted to transplanted rice)
Flat bed planting of arhar	30	36	30	100
Intercropping of maize with arhar	42	54	42	100
Alternate wetting/ drying irrigation in rice	36	53	36	100
Water harvesting and field bunding in rice	24	34	24	100
Flat Bed Planting of Maize	18	26	18	100
Nutrient expert/green seeker based nutrient management in rice	15	10	15	100
Community Irrigation in rice	15	10	15	100
Total	360	288	226	

INPUT DETAILS (KHARIF 2021)

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 :

- ✓ Rice – Glyphosate (Pre-sowing herbicide), Pendimethalin (Pre-emergence herbicide), Bispyribac sodium (Herbicide)
- ✓ Maize – Pendimethalin (Pre-emergence herbicide)
- ✓ Arhar – Pendimethalin (Pre-emergence herbicide), Biofertilizers (Rhizobium, PSB)

Result of Kharif trial 2021

Crop	Technology	Demonstration (Acre)	No of Beneficiaries	Grain yield (q/ha)		Straw yield (q/ha)		Net Return (INR)		B : C Ratio	
				Demo	Local check	Demo	Local check	Demo	Local check	Demo	Local check
Rice	Direct Seeded Rice (ZT + Drum seeder + Broadcasting)	46	65	49	40	61	47	50,610	33150	2.14	1.75
Rice	Transplanting	134	153	48	42	57	48	43,170	31530	1.86	1.63
Rice	Alternate wetting/ drying irrigation	36	53	46	42	54	48	39290	31530	1.79	1.63
Rice	Water harvesting & field bunding	24	34	45	43	57	48	37350	33470	1.75	1.67
Rice	Nutrient expert/ green seeker based nutrient management	15	10	47	42	53	48	41230	31530	1.83	1.63

Rice	Community Irrigation	15	10	49	42	55	48	45110	31530	1.90	1.63
Arhar/Pearl Millet/Small millet/ Sorghum	Raised bed planting	30	43	-	-	-	-	-	-	-	-
Maize	Raised Bed Planting	18	30	-	-	-	-	-	-	-	-
Maize with Arhar/ Soybean/ Potato	Intercropping	42	64	-	-	-	-	-	-	-	-

Exposure Visit And Travelling Seminars

S.No	Date	Agency	Locations	No. of participants		
				M	F	Total
1	**28.01.2021**	CRA	Exposure Visit from Non-CRA villages Paru, Motipur, Saraiya to KVK Farm	15	6	21
2	**29.01.2021**	CRA	Exposure Visit of Non-CRA farmers from Bhagwatpur to CRA fields of Bhagwatpur	28	0	28
3	**30.01.2021**	CRA	Exposure Visit from Non-CRA villages Paru, Jalilpur, Baluhikan to KVK Farm	27	15	42
4	**01.02.2021**	CRA	Exposure Visit from Non-CRA villages Jalilpur, Motipur, Karnaul Chaturbhuj to KVK Farm	8	32	40
5	**08.02.2021**	CRA	Travelling seminar from CRA village to BISA	80	20	100
6	**26.02.2021**	CRA	Exposure Visit from Non-CRA villages to KVK Farm	29	3	31
7	**27.02.2021**	CRA	Exposure Visit from Non-CRA villages to KVK Farm	20	20	40
8	**10.09.2021**	CRA	Travelling seminar from CRA village to KVK Harnaut, Nalanda			50

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

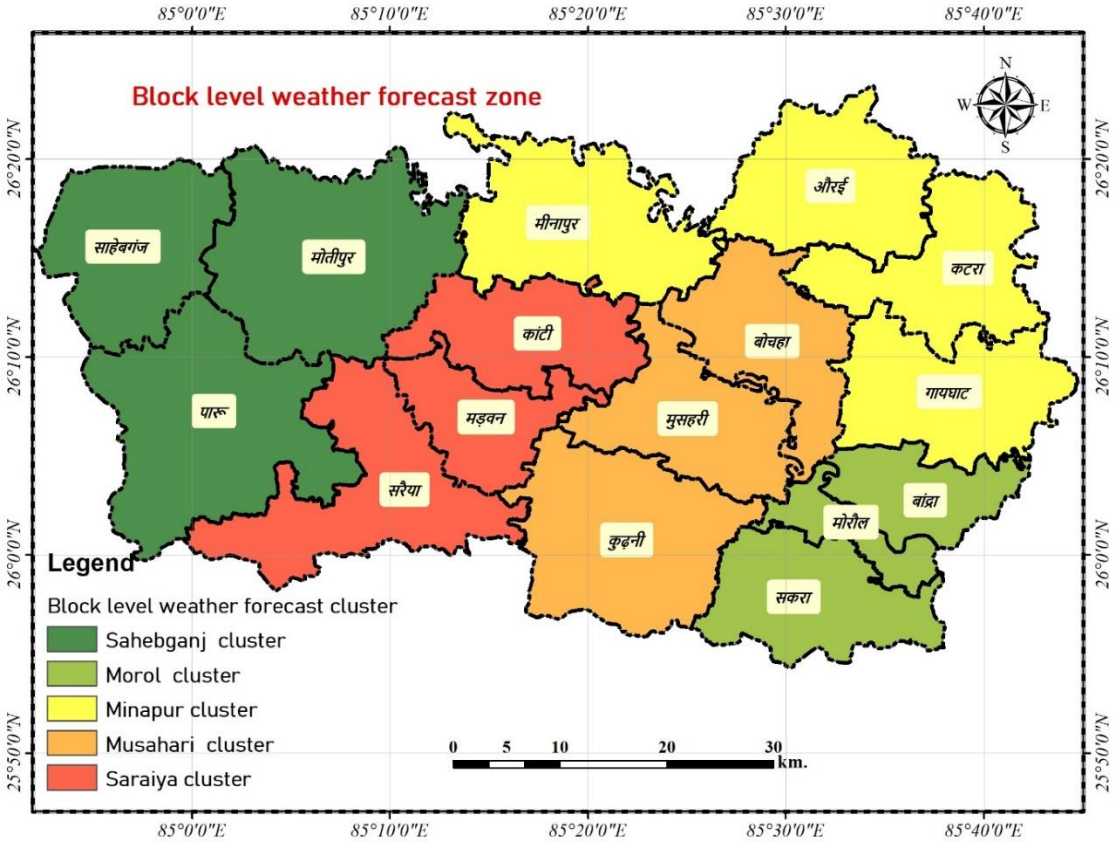


Figure: Block level weather forecasting cluster.

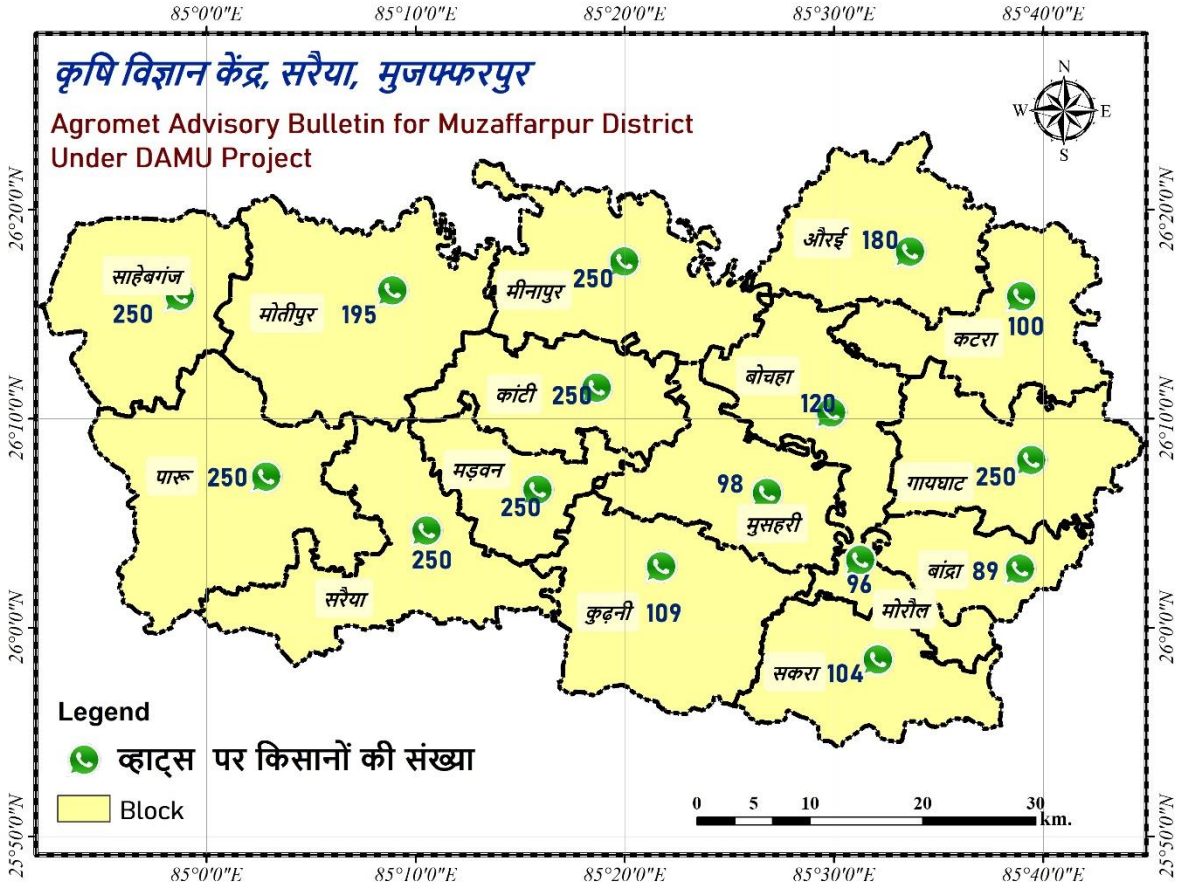


Figure: Block wise farmer join the what's app group under Damu Project

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)	Percentage
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
1.	Good	37	74
2.	Satisfactory	10	20
3.	Irrelevant	3	6

Feedback Format																		
S. L. No	**Name of the Farmers**	**Mobile Number**	**Village**	**Block**	**District**	**Query**												
						1. From where agro advisory is received (Name the source)	2. Which crop/sis/are present in the field	3. Which weather parameter is beneficial for your crop	4. Whether the advisory bulletin is beneficial (if yes then reason)	5. Whether these advisory bulletin is of no use (if yes then reason)	6. Are the forecasted weather condition is matched with realized condition (if yes then name the parameter)	7. Which suggestion you look more in agro advisory	8. What information is not present in Agro advisory	9. What information is not included in advisory after many reminder	10. Any FAP is done in your village (if yes than what are the benefits)	11. Before these agro advisory , from where you got information about weather (source and which one is more useful)	12. Any suggestion for improvement	13. Have you visited in KVK
1	Dr. Rama Shankar Singh	9934920015	Chainpur	Madwan	Muzaffarpur	Whatsup	Rice and Wheat	Rainfall	yes because rainfall data is necessary for crop	Usefull	Rainfall, Cloud Cover and Wind Speed	Accuracy of rainfall data	No response		Yes	Whatsup and Personel Contact	He prefered Short message along with PDF	Yes (Many times).
2	Mr. Rakesh Kumar	9431441605	Dawarikanathpur	Madwan	Muzaffarpur	Whatsup	Rice and Wheat	Rainfall and Temparature	yes because rainfall data is necessary for crop	Usefull	Rainfall	Accuracy of rainfall data	No response		yes	Whatsup and Personel Contact	Prefer short message than PDF because of net problem	yes
3	Rajesh Ranjan	9771929903	Bhagwatpur	Madwan	Muzaffarpur	Whatsup	Rice and Wheat	Rainfall and Cloud Cover	yes because rainfall data is necessary for crop	Usefull	Cloud Cover	Accuracy of rainfall data	No response		yes	Whatsup and Personel Contact	No suggestion	yes

3	Rakesh Kumar	9431441605	Dawarikanathpur	Madwan	Muzaffarpur	Whatsup	Rice and Wheat	Rainfall and Cloud Cover Temperature	yes because rainfall data is necessary for crop	Usefull	Cloud Cover	Accuracy of rainfall data	No response		yes	Whatsup and Personel Contact	No suggestion	yes
4	Harihar Pandit	8521306178	Chakna	Saraiya	Muzaffarpur	Whatsup and presonnel talk	Rice and Wheat	Rainfall and Cloud Cover	yes because rainfall data is necessary for crop	Usefull	Rainfall, Cloud Cover and Wind Speed	Accuracy of rainfall data	No response		yes	Whatsup and Personel Contact	No suggestion	No
5	Abhishekh	9931207976	Pukharera	Saraiya	Muzaffarpur	Whatsup and presonnel talk	Rice and Wheat Beekeeping	Rainfall and Cloud Cover Temperature	yes because rainfall data is necessary for crop	Usefull	Rainfall, Cloud Cover and Wind Speed	Accuracy of rainfall data	No response		yes	Whatsup and Personel Contact	No suggestion	No
6	Dipak kumar	8094608674	Sahebgung	Raj Husepur ratti	Muzaffarpur	Whatsup and presonnel talk	Rice and Wheat	Rainfall and Cloud Cover	yes because rainfall data is necessary for crop	Usefull	Rainfall, Cloud Cover and Wind Speed	Accuracy of rainfall data	No response		yes	Whatsup and Personel Contact	Please include observed rainfall data in your advisory so farmers can also get information about this.	Regural visitor of KVK
7	Manoj Kumar	9162725199	Dhanupur	Saraiya	Muzaffarpur	Whatsup and presonnel talk	Rice and Wheat	Rainfall and Cloud Cover	yes because rainfall data is necessary for crop	Usefull	Rainfall, Cloud Cover, Wind Speed and temperature	Accuracy of rainfall data	No response		yes	Whatsup and Personel Contact	Please include short messages along with pdf.	Yes

8	Mr Durgesh	9308531526	Motipur	Motipur	Muzaffarpur	Whatsup	Rice and Wheat, Maize	Rainfall	yes because rainfall data is necessary for crop	Usefull	Rainfall, Cloud Cover and Wind Speed	Accuracy of rainfall data	No response		Yes	Whatsup and Personel Contact	He prefered Short message along with PDF	Yes (Many times).
9	Sujit Kumar	8873643031	Saraiya	Saraiya	Muzaffarpur	Whatsup	Rice and Wheat, Maize vegetable	Rainfall Wind And Temp	yes because rainfall data is necessary for crop	Usefull	Rainfall, Cloud Cover and Wind Speed	Accuracy of rainfall data	No response		Yes	Whatsup and Personel Contact	He prefered Short message along with PDF	Yes (Many times).
10	Rakesh Kumar	9431441605	Dawarikanathpur	Madwan	Muzaffarpur	Whatsup	Rice and Wheat	Rainfall and Cloud Cover	yes because rainfall data is necessary for crop	Usefull	Cloud Cover	Accuracy of rainfall data	No response		yes	Whatsup and Personel Contact	No suggestion	yes

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

Training programme on Poultry farming and INM at KVK, Saraiya

E- **Kisan Chopal organized in different topic**

.

Field day organised under CRA programme

TV Talk at doordarshan Patna

Inauguration hon'ble VC of Crop Seminar organized by MBRI, Bhatoliya

Travelling Seminar From KVK, Saraiya to BISA Farm under CRA project

The pipe installation under alternative wet and dry irrgaton method

Debate organized at Jn. School on the occasion of of 150th birth anniversary of Mahatma Gandhi

Rural youth training programme on Farm machinery training and Mushroom

Crop Sowing under FLD with Multi Crop Planter Programme

Field visit for line swing of musterd crop by Sr. scientist and Head and SMS (Agri.Engg.)

Cleaning and taking pledge on Swachhata Pakhawa

Crop sowing under CRA Project

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KVK, SARAIYA, MUZAFFARPUR

Dr. Rajendra Prasad Central Agricultural University, Bihar
Pusa (Samastipur) – 848 125