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



ANNUAL REPORT January- December 2020

Presented By:-

Dr. Anupma Kumari

Sr. Scientist and Head Krishi Vigyan Kendra, Saraiya, Muzaffarpur

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

Editors

Anupma Kumari Santosh Kumar Gupta Savita Kumari Kamlesh Kumar Singh Tarun Kumar Anupam Adarsh Krishi Vigyan Kendra, Saraiya, Muzaffarpur

PROFORMA FOR ANNUAL REPORT 2020 (1st January- 31st December 2020)

1. GENERAL INFORMATION ABOUT THE KVK

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

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

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

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

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

Nome		Telephone / Contact						
name	Residence	Mobile	Email					
Dr. Santosh Kumar Gupta		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 31 st December 2020)									
SI. No.	Sanctioned post	Name of the Incumbent	Designation	Discipline	Pay Scale with Present Basic	Date of joining	Permanent/ Temporary	Category (SC/ST/ OBC/ Others)		
1.	Senior Scientist& Head	Dr. Santosh Kumar Gupta	Sr. Scientist	Veterinary	157680.00	28/12/2020	Permanent	OBC		
		Dr. Anupma Kumari(Relieved on 15.01.2021)	& Head	Agronomy	15600- 39100 113700	11.07 2018	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	Vacant								

	Programmer							
10.	Farm Manager	Mr. Anupam	Farm		9300-	27-11-	Permanent	Others
	_	Adarsh	manager	Horticulture	34800	2017		
		Addish	manager		38700	2017		
11.	Accountant /	Kumari Pratibha	Assistant		9300-	22-11-	Permanent	SC
	Superintendent				34800	2017		
					38700	2017		
12.	Stenographer	Mr. Sumon			25500-			
		Wil. Suillan	Stenographer		81100		Permanent	OBC
		Kuillai			27100			
13.	Driver(Jeep)	Mr. Ram Ekbal	Jeep Driver		5200-	13-03-	Permanent	Others
		Singh			20200	2003		
14.	Driver	Vacant						
15.	Supporting	Ram sakal			5200-	12.05		
	staff(peon)	Rai(transferred	peon		20200	13-03-	permanent	OBC
		on 4th Jan 2020)				1990		
16.	Supporting	Vacant						
	staff							

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 (not handed over)		Under use	ICAR
3.	Staff Quarters (6)	Yes							
4.	Piggery unit	Yes							
5	Fencing					Yes (not handed over)		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							

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11.	Goatry unit	Yes				
12.	Mushroom Lab			Yes	Under use	RKVY
13.	Mushroom production			Yes	Under use	RKVY
	unit			105	ender use	
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
Poloro	2002	1.00	217756	Condemned by DTO
DOIEIO	2005	4.00	217730	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	27026	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	Broken	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	Good	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

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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	Good	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	Central purchase

Honda EXK 2000 Genset	18.06.2004	38400.00	Good	Central purchase
Self Propelled Reaper	14.02.2012		Good	Central purchase
Hand rotary duster	24.04.1999	1197.00	Non Functional	Central purchase
Aspee knapsack Sprayer	24.04.1999	1200.00	Good	Central purchase
Honda pumpset	18.06.2004	19100.00	Good	Central purchase
Guttor rocking machine	02.07.2013	6710.00	Good	Central purchase
Maize dryer	27.02.2013	500000.00	Non functional	RKVY
Knap sac Sprayer	14.02.2012		Good	Central purchase
VST Shaktiman power reaper	13.03.2012	107277.00	Non functional	RKVY
Seed processing Machine	30.09.2009		Require maintenance	Govt. of Bihar
Happy seeder	31.07.2020		Good	Central purchase
Zero till cum fertilizer machine	31.07.2020		Good	Central purchase
Multi crop planter	31.07.2020		Good	Central purchase
Power weeder	31.07.2020		Good	Central purchase
Leaser land labeller	31.07.2020		Good	Central purchase
Mini dal mil	31.07.2020		Good	Central purchase
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	Good	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

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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		Good	ICAR
Sprinkler system	28.03.2009	30000.00	Good	ICAR

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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	Good	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

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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.	08/11/2019	39	कृषि विज्ञान केन्द्र में सोलर ट्री स्थापित करने हेतु कार्य में तेजी लाने की जरूरत है।	केन्द्र पर सोलर ट्री स्थापित हो चुका है परन्तु पैनल की दिशा सही नहीं होने के कारण कार्य नहीं कर रहा है। इसके लिए सम्पर्क स्थापित किया जा चुका है।	
2.			केन्द्र द्वारा बेरोजगार युवक एवं युवतियों हेतु आयोजित प्रशिक्षण के बाद व्यवसाय शुरू करने वाले किसानों का व्योरा भी केन्द्र के पास होना चाहिए। OFT के दौरान उस गाँव के कुछ किसानों को भी उक्त OFT की जानकारी हो, तथा साथ ही ट्रायल के प्रभावी परिणाम को कृषि विभाग से जुड़े अन्य विभागों से साझा किया जाये ताकि नयी तकनीक का अधिक से अधिक प्रसार हो सके।	लाह की चूड़ी, मशरूम उत्पादन, मशरूम स्पॉन, वर्मीकम्पोस्ट आदि व्यवसाय शरू करने वाले किसान एवं महिला किसान की सूची केन्द्र के पास उपलब्ध है। सूक्ष्म सिचाई पद्धित से सब्जी की खेती भागवतपुर एवं अन्य गाँव में कि जा रही है। OFT की जानकारी किसानों को देने के बाद ही यह शुरू किया जाता है। परिणाम आने पर कृषि विभाग को सूचित किया जायेगा।	
3.			केन्द्र पर खाद्य प्रसंस्करण इकाई स्थापित करने हेतु राष्ट्रीय बागवानी बोर्ड से संबंध स्थापित किया जाए।	जिला उद्यान पदाधिकारी से खाद्य प्रसंस्करण हेतु प्रत्रांक संख्या 256 दिनांक 01.02.2021 द्वारा सम्पर्क स्थापित किया गया।	
4.			किसी भी विषय वस्तु विशेषज्ञ के स्थानांतरण के बाद जो कार्य उसके द्वारा निस्पदित नहीं किया गया हो, उसे अन्य विषय वस्तु विशेषज्ञ अथवा कृषि विभाग के अन्य पदाधिकारी ,द्वारा निस्पादन करवाया जाए। यथासंभव स्थानांतरण के पूर्व विषय वस्तु विशेषज्ञ अपना	वर्षिक कार्य योजना में निर्धारित सभी कार्य वर्ष के अंत तक पूरा कर लिया गया है।	

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5.	कार्य संपादित कर ही दूसरे जगह योगदान दे। वार्षिक कार्ययोजना में निर्धारित सभी कार्य, वर्ष के अंत में निस्पदित हो जाना चाहिए। रिपोर्ट बनाते समय विशेष कार्यक्रम अथवा अन्य संस्थाओं द्वारा गया कार्य का परिणाम अलग से प्रस्तुत किया जाए। इसे केन्द्र के वार्षिक कार्ययोजना के साथ सम्मलित नहीं किया जाए।
6.	प्रशिक्षण में लाभार्थियों के नाम एवं उसकी संपर्क विवरण एक्सेल शीट में तैयार कर लिया जाए। प्रशिक्षण उपरांत उनसे 15–20 दिन बाद संपर्क किया जाए एवं प्रगतिशील लाभार्थियों की सूची तैयार कर सफल किसानों की कहानी तैयार कर ली जाए।
7	नाबार्ड मुजफ्फरपुर के रिसर्च एवं डेवलपमेंट मद अंतर्गत हाई टेक एग्रिकल्चर स्थापित करने हेतु राशि उपलब्ध है। अतः अनुसंसाधन हेतु कृषि विज्ञान केन्द्र, सरैया सम्पर्क स्थापित किया गया है। नाबार्ड से संबंध स्थापित करे।
8.	विषय वस्तु विशेषज्ञ, मत्स्य द्वारा OFT उसके दूसरे संस्था मे योगदान पूर्व शुरू कर दिया जाए। OFT पूर्ण कर लिया गया है।
9.	फॉल आर्मी वार्म पर कृषि विज्ञान केन्द्र द्वारा समेकित जिला कृषि पदाधिकारी के साथ फॉल किट प्रबंधन अंतर्गत प्रशिक्षण को बढ़ावा देना चाहिए। आर्मी वार्म के नियंत्रण हेतू अनुशंसा पर कार्य किया जा रहा है।
10.	फसल अवशेष प्रबंधन पर किसानों के बीच जागरूकता फैलाई जाए। प्रबंधन पर जागरूकता दी जाती है। अग्रिम पक्ति प्रत्यक्षण अंतर्गत वि0व0वि0 कृषि अभियंत्रण द्वारा हैपी सीडर के द्वारा प्रत्यक्षण एवं प्रशिक्षण

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		देकर किसानों को जागरूक किया गया। OFT अंतर्गत जीरो टिलेज मशीन से बुआई उपरांत अलग–अलग अवशेषों पर गेहूँ के फसल के उत्पादन के प्रभाव का मूल्यांकन किया गया। मशरूम उत्पादन द्वारा, नाडेप कम्पोस्ट द्वारा,वर्मी कम्पोस्ट द्वारा भी किसान फसल अवशेष का प्रबंधन करते है ।
11.	कृषि विभाग के मासिक मिटिंग में कृषि विज्ञान केन्द्र विशेषज्ञों को भी शामिल किया जाए ताकि प्रसार कार्यकर्ताओं द्वारा बृहद रूप से कृषि आधारित प्रशिक्षप का प्रसार किया जा सके।	के संबंधित कार्य के लिए कृषि विभाग से ^T संपर्क स्थापित किया गया है।
12.	ग्रामीण विध्युकरण के अंतर्गत बिजली कनेक्शन लिया जाये जिसके लिए VASFA वैशाली ने सहायता दे को कहा है, जिनसे सहायता देने को कहा है, जिनसे सहायता ली जाए।	ने विद्युत कनेक्शन लिया गया है।
13.	जीविका एवं कृषि विभाग सरैया में स्थित सोलर पंप कार्य नहीं कर रहा है। इसके लिए विषय वस्तु विशेष कृषि अभियंत्रण सोलर पंप के खराबी को अपने स्तर पर सुधारने की कोशिश करे, जिसकी रिपोर्ट 15 दिने के अन्दर प्रसार शिक्षा निदेशालय को दे।	ज्ञ, वि0व0वि0 कृषि अभियंत्रण द्वारा सोलर पंप की खराबी की जाँच कर उचित निर्देश दे दिया गया था। रिर्पोट भेज दी गई है।
14.	बैठक में किसान सदस्यों द्वारा एक विषय वस्तु विशेष पशु विज्ञान की माँग की गयी, इसके लिए एक विषय वस्तु विशेषज्ञ, पशु विज्ञान को सप्ताह में एक दिन कृ विज्ञान केन्द्र सरैया में प्रतिनियुक्ति के लिए विचार किया जाए।	ज्ञ, षि तीन दिवसीय 2 प्रशिक्षण विषय वस्तु विशेषज्ञ, पशु विज्ञान समस्तीपुर द्वारा इस वर्ष दी गई है।

* Salient recommendation of SAC in bullet form

KRISHI VIGYAN KENDRA, SARAIYA MUZAFFARPUR BIHAR

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Attach a copy of SAC proceedings along with list of participants

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2)	Dr. Brajesh Shahi	Nodel Officer KVKs	RPCAU pusa		Pre-
3>	Dr. Anupma kri	Sr. Scientist & Head: KVK Somiy	KVK sanazz		Drupmara 8.11.19
4>	Md. Ismail	PD, ATMA M42.	muratlep	9334488 456	3P2
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8	Ashutach Singh	sengal lovndatia	Motipu-	70383020 41	Atec
9	funkr such.	Porg Coorne VASFA	versh	943147533	2m
10	h.K. Shome	VASte	voichly	943026474	2 Ano
1	भाज कुझारी देवी पदत्त-की क्षेत्रका मि	Adres 2	Mieros y	१४०१५३५१ ३१	Durk
2	Juli Proversini	DDM, NABAR	1) muzaftufm	- 9430990080	Adri Bravan
3	Of N.K. Son.	L.D.M. Mourpe	murchap	95343/97044	ontre

17वीं वैठक वैज्ञानिक सलाहकार समिति में भाग लेने वाले

वैज्ञानिक सलाहकार समिति (SAC) की सत्रहवी बैठक

वैज्ञानिक सलाहकार समिति की संत्रहवी बैठक दिनांक 8.11.2019 को निदेशक प्रसार शिक्षा राठ प्र0 के0 कृ0 वि0, पूसा, समस्तीपुर की अध्यक्षता में कृषि विज्ञान केंद्र, सरैया के सभागार में संपन्न हुआ। इस बैठक में नोडल ऑफिसर (कृषि विज्ञान केंद्र), राo प्र0 के0 कृ0 वि0, पूसा,के अलावा मुजफ्फरपुर जिला के कृषि विभाग, पशुपालन विभाग, आत्मा, लीड बैंक, नाबार्ड के संस्था प्रमुख, गैर सरकारी संस्थाओं के प्रमुख(जीविका, सहगल फ़ाउंडेशन, वासपा। वर्ल्ड विजन) तथा प्रगतिशील किसान सदस्य उपस्थित थे। बैठक की शुरुआत दीप प्रज्वलित कर एवं पुष्प गुच्छ देकर किया गया।

सर्वप्रथम पूर्व वैज्ञानिक सलाहकार समिति में लिए गए निर्णयों के अनुपालन को सर्वसम्मति से पारित किया गया।

बैठक मे निम्नांकित निर्णय लिए गए

- 1. कृषि विज्ञान केंद्र में सोलर ट्री स्थापित करने हेतु कार्य में तेजी लाने की जरूरत है।
- 2. केंद्र द्वारा बेरोजगार युवक एवं युवतियो हेतु आयोजित प्रशिक्षण के बाद व्यवसाय शुरू करने वाले किसानों का व्योरा भी केंद्र के पास होना चाहिए। OFT के दौरान उस गाँव के कुछ किसानों को भी उक्त OFT की जानकारी हो, तथा साथ ही ट्रायल के प्रभावी परिणाम को कृषि विभाग से जुड़े अन्य विभागों से साझा किया जाए ताकि नयी तकनीक का अधिक से अधिक प्रसार हो सके।
- 3. केंद्र पर खाद्य प्रसंस्करण इकाई स्थापित करने हेतु राष्ट्रीय बागवानी बोर्ड से संबंध स्थापित किया जाए।
- 4. किसी भी विषय वस्तु विशेषज के स्थानांतरण के बाद जो कार्य उसके द्वारा निरूपदित नहीं किया गया हो, उसे अन्य विषय वस्तु विशेषज अथवा कृषि विभाग के अन्य पदाधिकारी द्वारा निसपादन करवाया जाए। यथासंभव स्थानांतरण के पूर्व विषय वस्तु विशेषज्ञ अपना कार्य संपादित कर ही दूसरे जगह योगदान दे। वार्षिक कार्ययोजना में निर्धारित सभी कार्य, वर्ष के अंत मे निस्पदित हो जाना चाहिए।
- 5. रिपोर्ट बनाते समय विशेष कार्यक्रम अथवा अन्य संस्थाओ द्वारा दिया गया कार्य का परिणाम अलग से प्रस्तुत किया जाए। इसे केंद्र के वार्षिक कार्ययोजना के साथ सम्मलित नहीं किया जाए।
- 6. प्रशिक्षण में लाआर्थियों के नाम एवं उसकी संपर्क विवरण एक्सेल शीट में तैयार कर लिया जाए। प्रशिक्षण उपरांत उनसे 15-20 दिन के बाद संपर्क किया जाए एवं प्रगतिशील लाभार्थियों की सूची तैयार कर सफल किसानों की कहानी तैयार कर ली जाय।

dh

KVK, Saraiya Muzaffarpur

KRISHI VIGYAN KENDRA, SARAIYA MUZAFFARPUR BIHAR

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

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14	2122 214	Plf (Doulty)	रभुनाथपुत् प्रार्थड-पान	997391 6002	21+2 (Fo
15	राजेब। रेञन कुमार	P/F for	भारतम् भडवन	977/92970	Zita lanson
16	रीता देवी	P/F (Mushrom)	अन्वारा यो	74884063	११ सीता द्विती
17	Benjamin Khasokso	Manager World Min	Muzaffanpur World vision	9771499838	ton
8	SP หกิงร สูกเก	DAHO	Outer uguian	91990317 44	13
12	Dr. Porlaglaumer	scientist	GimmyT. GSiSA Scientelt.	947-201228	Parlin
20	Amit Kumal	BTM	BandRA PA+SARA.	620376779	Amit
21	Rasiv Kunt	BTM	ATMA. mwzatkyn	9430555884	K.K.
22	Ashuani Lumar chandraway	TOTA	AM MA MATA	9934652255	Asheveni brichal
3	GIARIH	340	a (RUD)	980111	6101824
39	YZMILLY	311041	Muchtepe	\$80/114702	र्ध्व माराम
25	213/10 4121912	2711	५ रन।	829248660	sy 21 silo vizear
26	Pyhor tainai	MO2.	muzablarpos	74355170	Prio
F	Lowman Kumen	Deiner	pusa	963129 544	Laxnen 4.

क0 सं0	नाम	पद	पता	सम्पर्क न0	हस्ताक्षर
28	मिन्ही द वाप	- चालक	3HI	35708400	12 Aerty
29	शी भा यावत	विव्यः विः मत्स्य पालन	सरेंग,	9008812445	Shille
30	trang effuit	19.9.19. 4/21/2/08	सर्रभ	993)729124	Aland
31	सकिता कुमारी	বিতবত বিত হাই নিহান	केठ तीन केन सरमा	754304136g	Savita Keno-
32	Kymari Poatibha	Assistant Barkivik Saraiya	Saraija	94516898 93	Pratibha
33	07.18.18.5116H	sins soil scon	e KVK Saraiya	9472003123	Sector
34	Rama. Ravjon	Stengrophon.	KVK Sanaya.	9155701319	Rama Ranjan
35	Anupon Adonsh	Formanger	KVK Saranga.		
36	Dr. Tanun Kuman	sms As. enss	Kvk Sorary a.		
37-	Indrageet kr Mandal	PA (lab tech)	Kvik Sanaja.		
38	Ram Ekbal Singh	Jeep Driven	KVK Saraya		
37	Rom Sakal Roi	Peon	KVK Sanory		

वैज्ञानिक सलाहकार समिति (SAC) की सत्रहवी बैठक

7. नाबार्ड मुजफ्फरपुर के रिसर्च एवं डेव्लपमेंट मद अंतर्गत हाड़ टेक एग्रिकल्चर स्थापित करने हेतु राशि उपलब्ध है। अतः अनुसंधान हेतु कृषि विज्ञान केंद्र, सरैया नाबार्ड से संबंध स्थापित करे।

 विषय वस्तु विशेषज्ञ, मत्स्य द्वारा OFT उसके दूसरे संस्था मे योगदान पूर्व शुरू कर दिया जाए।

 फॉल आर्मी वार्म पर कृषि विज्ञान केंद्र द्वारा समेकित किट प्रबंधन अंतर्गत प्रशिक्षण को बढावा देना चाहिए।

10.फसल अवशेष प्रबंधन पर किसानों के बीच जागरूकता फैलाई जाए।

11.कृषि विभाग के मासिक मिटिंग में कृषि विज्ञान केंद्र के विशेषज्ञों को भी शामिल किया जाए ताकि प्रसार कार्यकर्ताओं को प्रशिक्षण दिया जा सके तथा प्रसार कार्यकर्ताओं द्वारा बृहद रूप से कृषि आधारित प्रशिक्षण का प्रसार किया जा सके।

12.ग्रामीण विध्युत्करण के अंतर्गत बिजली कनेक्शन लिया जाये जिसके लिए VASFA वैशाली ने सहायता देने को कहा है, जिनसे सहायता ती जाए।

13.जीविका एवं कृषि विभाग सरैया में स्थित सोलर पंप कार्य नहीं कर रहा है। इसके लिए विषय वस्तु विशेषज्ञ, कृषि अभियंत्रण सोलर पंप के खराबी को अपने स्तर पर सुधारने की कोशिश करे, जिसकी रिपोर्ट 15 दिनों के अन्दर प्रसार शिक्षा निदेशालय को दे।

14.बैठक में किसान सदस्यों द्वारा एक विषय वस्तु विशेषज्ञ, पशु विज्ञान की माँग की गयी, इसके लिए एक विषय वस्तु विशेषज्ञ, पशु विज्ञान को सप्ताह में एक दिन कृषि विज्ञान केंद्र सरैया में प्रतिनियुक्ति के लिए विचार किया जाए।

> Hmpmalanan वरीय वैज्ञानिक एव प्रधान कृषि विज्ञान केन्द्र, सरैया

KVK, Saraiya Muzaffarpur

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2. a. District level data on agriculture, livestock and farming situation (2020)

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

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				fish and Agri-fish systemWheat / Moong after reced	e of water					
		Rain fed upland salir	ne	 Salinity is major problem Crops – Paddy, Wheat, Sugarcane, Pointed gourd, Water n and orchard. 						
4	Soil type	Sl. No	Soil type	Characteristics	Area in ha					
		1.	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 ₂ O ₅ 25-50 Kg/ha Available K ₂ O - 100-300 Kg/ha Deficient in S, Zn & B	247721					
		Crop	Area (ha)	Production (MT)	Productivity (kg/ha)					
		Rice	33350	46148	1384					
		Rice Wheat	33350 91868	46148 258180	1384 2810					
		Rice Wheat Maize	33350 91868 35038	46148 258180 54015	1384 2810 1542					
		Rice Wheat Maize Gram	33350 91868 35038 122	46148 258180 54015 141	1384 2810 1542 1156					
	Productivity of major	Rice Wheat Maize Gram Lentil	33350 91868 35038 122 907	46148 258180 54015 141 635	1384 2810 1542 1156 700					
5	Productivity of major 2-3 crops under cereals pulses	Rice Wheat Maize Gram Lentil Pea	33350 91868 35038 122 907 112	46148 258180 54015 141 635 104	1384 2810 1542 1156 700 929					
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds vegetables	Rice Wheat Maize Gram Lentil Pea Moong	33350 91868 35038 122 907 112 25355	46148 258180 54015 141 635 104 13514	1384 2810 1542 1156 700 929 533					
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Rice Wheat Maize Gram Lentil Pea Moong Arhar	33350 91868 35038 122 907 112 25355 492	46148 258180 54015 141 635 104 13514 856	1384 2810 1542 1156 700 929 533 1740					
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	RiceWheatMaizeGramLentilPeaMoongArharRapeseed and Mustard	33350 91868 35038 122 907 112 25355 492 4787	46148 258180 54015 141 635 104 13514 856 3777	1384 2810 1542 1156 700 929 533 1740 789					
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	RiceWheatMaizeGramLentilPeaMoongArharRapeseed andMustardLinseed	33350 91868 35038 122 907 112 25355 492 4787 54	46148 258180 54015 141 635 104 13514 856 3777 47	1384 2810 1542 1156 700 929 533 1740 789 875					
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	RiceWheatMaizeGramLentilPeaMoongArharRapeseed andMustardLinseedSunflower oil	33350 91868 35038 122 907 112 25355 492 4787 54 6	46148 258180 54015 141 635 104 13514 856 3777 47 9	1384 2810 1542 1156 700 929 533 1740 789 875 1505					

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6	Mean yearly	Month	Tem	perature (⁰ C)	Average Rainfall	Average
	humidity of the district		Min Temp	Min Temp	(mm)	Humidity (%)
		January-20	8.1	22.8	1.2	70.5
		February -20	10.7	25.0	25.4	69.5
		March-20	13.5	30.3	4.2	59.5
		April- 20	19	40	11.6	53
		May- 20	24.3	34.0	94.4	73
		June-20	26.5	36.0	44.4	70.5
		July-20	26.0	33.6	170	79
		August-20	26.1	32.7	388.4	81.5
		September-20	25.4	33.3	118.6	80
		October-20	19.0	32.0	12.6	70.5
		November-20	13.3	29.0	0.0	71
		December-20	8.8	24.3	0.0	68.5
		Category	Population (in thousands)	Production	Productivity	Category
		Cattle				
		Exotic	227954.00			
	Production of major	Indigenous	197847.00			
7	livestock products like	Buffalo	296568.00			
	milk, egg, meat etc.	Goats	124374.00			
		Pigs				
		Exotic	502.00			
		Indigenous	2887.00			
		Goats	124374.00			

Note: Please give recent data only

2. b. Details of operational area / villages (2020)

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Sl.	Name of	Name of	Name of the	Major crops	Major problems identified	Identified Thrust Areas
No.	Taluk	the block	villages	& enterprises	(crop-wise)	
1.	Muzaffarpur (East)	Saraiya	Saraiya Pokhraira, Biadih, Bhatauliya Madwapakhar, Bakhara. Paigambarpur, Ambara. Anandpur, Basokund, Bahilwara Ambara tej singh Basochak Basudeo patti Ibrahimpur, Sujawal pur, Bishunpur basant urf Suba, Lakshmipur Arar, Biadih, Chitari, Rupauli Chandkewari	Paddy, Wheat, Vegetable, Vermi-composting, Mushroom cultivation, Organic farming, Protective cultivation of vegetables Use of farm machinery like zero till seed drill, grubber, reaper etc.	Low productivity due to use of traditional variety and indiscriminate use of chemical fertilizers and bio-pesticides Not aware about the importance of fodder crop	Improving the Production and productivity of cereals, oilseeds and pulses Income generation 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	ImprovingtheProductionandproductivity of cereals,oilseeds and pulsesIncomegenerationthrough mushroom anditsvalueadditionvermi-compostproductionFisheries,microirrigation
3.	Muzaffarpur (East)	Kanti	Kothia, Manikpur narrottam, Mirjapur, Narsanda, Pokhraira Harpur ganesh, Sirsiya Bujurg, Sonversa	Vegetables Mushroom Vermiculture Organic farming	Low productivity due to poor fertility of the soil	Improving the productivity of Potato, Veg., and Maize Income generation through mushroom and its value addition vermi-compost production Fisheries, micro irrigation

4	Muzaffarpur (East)	Minapur	Ghoshaut, Daud Chapara, Harpur Basudeo Miky, Bajjar Munaria, Kalyanpur,	Paddy, Vegetables Mushroom Vermiculture Organic farming	Wheat,	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)	Paru	Mathia Chandkewari Laloo chapara Saraiya bajar Gariba Gauda, Chochahi Raghunathpur Sakhra, Fanda, Garha Bahram, Bhataulia, Gagdishpur Dharam Mohabatpur	Floriculture, Vegetable		Low productivity due to use of traditional variety and indiscriminate use of chemical fertilizers and bio-pesticides	Improving the productivity of Vegetable and oilseed and pulses

6.	Muzaffarpur (East)	Sahebganj	Maugraha Asli, Jahura, Deoghra, 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 2020) 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.
Ghoghraha	Saraiya	Increasing seed replacement rate, Mushroom cultivation, Mushroom spawn production, Dairy management, Vermicomposting, IPM, off campus training, Swachhta Abhiyan FLD, OFT, INM, Value addition of fruits and vegetables, Income generating activities as lac bangle & soft toys <i>etc</i> .
Basochak	Saraiya	Zero Energy Cool Chamber under FLD, 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.

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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.

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3. <u>TECHNICAL ACHIEVEMENTS</u>

3. A. Summary details of target and achievement of mandatory activities by KVK during the year 2020

		(OFT									FLD											
No. of technologies tested:													No. of technologies demonstrated:										
Number of OFTs Number of farmers										Numb	Number of FLDs Number of farmers												
				Achievement									Achiev			hieve	vement						
Target	Achievement	Targe t	SC ST		Others		Total		l	Target	Achievement	Achievement Target		С	ST		Other s		Total		ıl		
			Μ	F	Μ	F	Μ	F	Μ	F	Τ				Μ	F	Μ	F	Μ	F	Μ	F	Т
07	05	59	1	0	0	0	19	07	3	1	4	08	08	107	10	12	0	0	4	44	51	56	107
			1	6					0	3	3								1				

						Extension activities																	
Numb	Number of Courses Number of Participants											Numbe	Number of activities Number of participants										
	Achievement												Achievement										
Target	Achievement	Target	S	С	S	Т	Oth	ers		Total	l	Target	Farget Achievement Target SC ST					Oth	thers Total				
			Μ	F	Μ	F	Μ	I F M F T						_	Μ	F	Μ	F	Μ	F	Μ	F	Т
111	92	2025	149	70	0	0	1177	473	1326	513	1839	2750	10265	6435	1021	244	0	0	18000	1800	19021	2044	22155
Target	Achievement 92	Target	S (M 149	C F 70	S M 0	F 0	Chieve Oth M 1177	ement ers F 473	M 1326	Tota F 513	T 1839	Target 2750	Achievement	Target 6435	M 1021	C F 244	S <u>M</u> 0	Γ F 0	Achiev Oth M 18000	ement ers F 1800	M 19021	Total F 2044	22

	Impact of capacity building										Impact of Extension activities										
Number of Participants Number of Trainees got employment (self/ wag							age/	Number of Participants Number of participants got employment (self/ w					wage/								
trained entre				trepreneur/ engaged as skilled manpower)				er)	atte	entrepreneur/ engaged as skilled manpower)											
Tanat	Achievement	S	C	S	T	Oth	ners		Total	l	Tanat	A abianan and	S	С	S	Т	Oth	ners		Tota	1
Target		Μ	F	Μ	F	Μ	F	Μ	F	Т	Target	arget Achievement	Μ	F	Μ	F	Μ	F	Μ	F	Т
445	305	17	09	0	0	41	13	58	22	80	6435	22155	11	07	0	0	26	13	37	20	57

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	A	Planting material (in Lakh)				
Target	Achievement	Target	Achievement			
100	88.5	0.10	0.05			

Livestock strains and fish fi	ngerlings produced (in lakh)*	Soil, water, plant, manures samples tested (No)				
Target	Achievement	Target	Achievement			
0	0	500	321			

* 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	5		5	7.92	5.5	-	-							
Seminar/conference/ symposia papers	8													
Books	2	200												
Bulletins	1	500												
News letter	2	1000												
Popular Articles	21	2000												
Book Chapter	5													
Extension Pamphlets/literature	2	2500												
Technical reports	10	94												
Electronic Publication (CD/DVD etc.)	2	2												
TOTAL	57	6296												

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3.1.1 Achievements on technologies assessed and refined

OFT-1

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 diagnosed	Low yield due to Fe deficiency in DSR
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	
	1) Farmers Practice (FP)	N:P:K (130-50-30 Kg/ha)
	2) Technology option-I (TO- I)	Recommended dose of fertilizers (RDF) NPK (120:60:40 kg/ha)
	3)Technology option-II (TO-II)	RDF + FeSO4 @ 0.5% + 0.25% Lime (foliar Spray) at 30, 45 and 60 DAS
	4)Technology option-III (TO-III)	RDF + FeSO ₄ @ 1.0% + 0.50 % Lime (foliar Spray) at 45 and 60 DAS
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	RPCAU, Pusa, Samastipur, Bihar
5.	Production system and thematic area	INM
6.	Performance of the Technology with performance indicators	Soil testing (Initial) yield and yield parameters, Economics

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7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area:

Problem definition:

Technology assessed:

Table:

Technology	No. of	Yi	ield component	Disease/	Yield	Cost of	Gross	Net return	BC	
option	trials	No. of	No. of	Test wt.	insect pest		cultivation	return		ratio
		effective	spikelet per	(100	incidence	(q/ha		(Rs/ha)	(Rs./ha)	
		tillers/hill	panicle	grain	(%))	(Rs./ha)			
				wt.)						

Results: NOT conducted due to heavy rain fall.

Please provide all the OFTs in same format

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OFT-2

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								
	(Mention either Assessed or Refined)								
	(1)Farmers Practice (FP)	N:P:K(130-50-30,N-P ₂ O ₅ -K ₂ O)							
	(2)Technology option-I (TO-I)	RDF (120-60-40,N-P ₂ O ₅ -K ₂ O)							
	(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/	RPCAU, Pusa, Samastipur, Bihar							
	AICRP/SAU/other, please specify)								
5.	Production system and thematic area	INM							
6.	Performance of the Technology with	Soil testing (Initial: pH, EC, OC, N,P, K), Growth, yield and yield							
	performance indicators	parameters, Economics.							
7.	Final recommendation for micro level	On the basis of OFT result rice crop with application of RDF and brown							
	situation	manuring @ 25 kg seed of Sesbania at 3 DAT + Vermicompost @ 1.0 t/							
		ha is suitable in Muzaffarpur district.							

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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: INM

Problem definition: No/irriational fertilization, low use efficiency of chemical fertilizer

Technology assessed: Effect of brown manuring and vermicompost on low land transplanted rice (Oryza sativa L.)

Technology	No. of	Yi	ield component	Disease/	Yield	Cost of	Gross	Net return	BC	
option	trials	Panicle	Grains/pani	1000	insect pest		cultivation	return		ratio
		length	cle	grain	incidence	(q/ha		(Rs/ha)	(Rs./ha)	
		(Cm.)		wt.	(%))	(Rs./ha)			
Farmers	10	23.72	161.36	29.96		30.86	35560.00	51227.6	15667.60	1.44
practice (130-										
50-30 N -										
P2O5 -K2O)										
TO1-RDF		24.56	162.96	31.08		34.58	36500.00	57406.12	20906.12	1.57
(120-60-40 2										
N- P2O5-										
K2O)										
TO2-RDF and		24.93	163.62	31.78		39.41	40500.00	65423.92	24923.92	1.62
brown										
manuring @										
25 kg seed of										
susbania at 3										
DAT+										
vermicompost										

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@ 1.0t/ha								
SEm±	0.11	0.12	0.20	0.30	-	-	-	-
CD (P=5%)	0.33	0.35	0.59	0.88	-	-	-	-

Results:

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

	Soil status at after harvest				
Technology option	рН	Org. carbon	Av. Nitrogen (kg/ha)	Av. phosphorus	Av. Potash (kg/ha)
		(%)		(kg/ha)	
Farmers practice(130-50-30 N -P2O5 - K2O)	8.58	0.50	298.50	18.00	164.10
TO1- RDF (120-60-40 2 N- P2O5- K2O)	8.55	0.52	301.10	18.25	162.50
TO 2-RDF and brown manuring @ 25 kg seed of Sesbania at 3 DAT+ vermicompost @ 1.0t/ha	8.37	0.59	317.90	21.58	171.13

Initial soil status: pH 8.60, OC 0.50%, Av. Nitrogen 302.46 kg/ha, Av. Phosphorus 18.34 kg/ha and Av. Potash 165.97kg/ha

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 39.41 when compared to the farmers practice which yielded 30.86 q/ha. Brown manuring with vermicompost gave better yields even when compared to the followed RDF (120-60-40 2 N- P2O5-K2O) which produced 34.58q/ha. The highest net return (Rs. 24923.92/ha) and B: C ratio (1.62) was registered under RDF and brown manuring @ 25 kg seed of Sesbania at 3 DAT+ vermicompost @ 1.0t/ha. 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-3

Soil Science 2019-20

1.	Title of On farm Trial	Evaluation of different mode of boron application on wheat (<i>Triticum aestivam L</i> .) in calcareous soil			
2.	Problem diagnosed	i- Reduction in boron mobility due to drought			
		ii- Deficiency of boron at the panicle/grain formation stage			
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)				
	(1)Farmers Practice (FP)	RDF (N:P:K @ 120-60-40)			
	(2)Technology option-I (TO-I)	RDF with application of Borax @ 2.5g/L of water at 45 DAS			
	(3)Technology option-II (TO-II)	RDF + Borax @ 2.5 g / L of water at 60 DAS followed by two spraying at 15 days interval			
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	RPCAU, Pusa, Samastipur, Bihar			
5.	Production system and thematic area	INM			
6.	Performance of the Technology with performance indicators	Soil testing (Initial): 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 wheat crop with application of RDF + Borax @ 2.5 g / L of water at 60 DAS followed by two spraying at 15 days interval is suitable in Muzaffarpur district.			

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8.	Constraints identified and feedback for	Reduction in boron mobility due to drought and deficiency of boron a
	research	the panicle/grain formation stage
9.	Process of farmers participation and their	Training and field day
	reaction	

Thematic area:

Problem definition:

Technology assessed:

Table:

Technology	No. of	Yi	ield component	t	Disease/	Yield	Cost of	Gross	Net return	BC
option	trials	No. of effective	No. of spikelet per	Test wt. (100	insect pest incidence	(q/ha	cultivation	return (Rs/ha)	(Rs./ha)	ratio
		tillers/hill	panicle	grain	(%))	(Rs./ha)			
				wt.)						
Farmers		385.00	34.00	32.00						
Practice						30.80	61592.00	31960	29632.0	1.93
T.O.1	05	391.80	36.00	32.60		32.70	65403.20	31149	34254.2	2.10
T.O.2		401.20	38.60	34.80		34.49	68982.80	30908	38074.8	2.23
T.O.3		410.00	40.50	35.90		35.47	70941.60	30178	40763.6	2.35
SEm±		3.07	0.20	0.33		0.13				
CD (0.05)		NS	0.73	1.21		0.47				

Replication	Soil test character									
/ farmers	pН	Ec	OC	Ν	Р	K	Bo			
F-1	8.74	0.28	0.61	341.60	75.00	103.00	7.31			
F-2	8.72	0.20	0.57	314.00	63.00	128.00	5.80			
F-3	9.04	0.17	0.47	297.00	50.00	126.00	9.66			
F-4	8.95	0.15	0.49	286.00	50.90	94.00	6.90			
F-5	8.82	0.18	0.46	330.00	20.30	177.00	1.24			

Soil analysis (Initial Stage) of OFT field

Result: The result indicated that RDF (120-60-40 kg/ ha) with application of borax @ 2.5gm/lit. of water at 60 DAS followed by two spraying at 15 days interval were recorded significantly higher yield (35.47 q/ha) followed by TO.2 and TO.1 as well as farmers practice (30.80 q/ha). The higher net returns (Rs.40763.00/ha) and B:C ratio (2.35) was registered TO.3 and lowest net returns were registered (Rs. 29632.00/ha and B:C ratio 1.93) from farmers practice.

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OFT-4

Soil Science 2020-21

1.	Title of On farm Trial	Evaluation of different mode of boron application on wheat (<i>Triticum aestivam L.</i>) in calcareous soil					
2.	Problem diagnosed	i- Reduction in boron mobility due to drought					
		ii- Deficiency of boron at the panicle/grain formation stage					
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)						
	(1)Farmers Practice (FP)	RDF (N:P:K @ 120-60-40)					
	(2)Technology option-I (TO-I)	RDF with application of Borax @ 2.5g/L of water at 45 DAS					
	(3)Technology option-II (TO-II)	RDF + Borax @ 2.5 g / L of water at 60 DAS followed by two spraying at 15 days interval					
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	RPCAU, Pusa, Samastipur, Bihar					
5.	Production system and thematic area	INM					
6.	Performance of the Technology with performance indicators	Soil testing (Initial: pH, EC, OC, N,P, K), Growth, yield and yield parameters, Economics.					
7.	Final recommendation for micro level situation						

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8.	Constraints identified and feedback for	
	research	
9.	Process of farmers participation and their	
	reaction	

Thematic area:

Problem definition:

Technology assessed:

Table:

Technology	No. of	Yi	eld component	t	Disease/	Yield	Cost of	Gross	Net return	BC
option	trials	No. of	No. of	Test wt.	insect pest		cultivation	return		ratio
		effective	spikelet per	(100	incidence	(q/ha		(Rs/ha)	(Rs./ha)	
		tillers/hill	panicle	grain	(%))	(Rs./ha)			
				wt.)						
			RESULT AW	AITED						

Results: Crop Standing

Please provide all the OFTs in same form

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OFT-5

Home Science 2019-20

1.	Title of On farm Trial	Assessment of quality Protein Maize (QPM) based supplementary food for child health. (2019-20)
2.	Problem diagnosed	Lack of dietary knowledge which leads poor choice of food and ultimately poor health of children.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	
	1. Farmers Practice (FP)	Food prepared for adults are provided to children and no supplementary food given to them.
	2. Technology option-I (TO- I)	Common maize (malted roasted) 50 gm, sprouted & roasted green gram 25 gm, seasame roasted 10 gm + sugar 15 gm, ½ cup milk.½ cup milk
	3. Technology option-II (TO-II)	QPM (malted roasted) 50 gm, sprouted & roasted green gram 25 gm, seasame roasted 10 gm + sugar 15 gm, ¹ / ₂ cup milk.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP Directorate of maize research, ICAR (Quality Protein Maize products for human nutrition by Usha Singh, DRRPCAU)
5.	Production system and thematic area	Designing and development for high nutrient efficiency diet
6.	Performance of the Technology with performance indicators	Increase in weight of children after feeding supplementary feeds for three months.
7.	Final recommendation for micro level situation	The data shows that percent increase in weight of 43% children consuming QPM based supplementary food was under 15-20 %, but

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		weight increase in 43% babies consuming common maize based					
		supplementary food was under 10-15 % only. Weight increase in 57%					
		babies not consuming supplementary food was under 5-10% only. 14					
		percent children consuming supplementary feeds have weight increase					
		for less than 5% whereas this percentage increased double for those					
		children not consuming supplementary foods.					
8.	Constraints identified and feedback for	Seasame used in supplementary feed was not grind properly at rural level					
	research	so suggested for groundnut instead of seasame					
9.	Process of farmers participation and their	Farmer participation was friendly and they showed positive attitude for					
	reaction	supplementary food.					

Increase in weight of children consuming QPM and common maize based supplementary foods

Increase in weight of children not consuming supplementary food									
	Initial weight	Final weight	Difference in	% increase in weight					
	initial weight		weight	<5%	5-10%	10-15%	15-20%		
	6.8-11.2	7.1-11.5	0.3-0.7	2	4	1	-		
Increase in weig	t for babies consumi	ng QPM based suppl	ementary food						
	6.9-11.3	8.1-11.9	0.6-1.3	1	2	1	3		
Increase in weig	tht for babies consumi	ng common maize ba	sed supplementary food						
	7.1 - 11.8	8.0 - 13.1	0.5 - 1.3	1	3	3	-		

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OFT-6

Home Science 2020-21

1.	Title of On farm Trial	Assessment of quality Protein Maize (QPM) based supplementary food for child health. (2020-21)
2.	Problem diagnosed	Lack of dietary knowledge which leads poor choice of food and ultimately poor health of children.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	
	1. Farmers Practice (FP)	Food prepared for adults are provided to children and no supplementary food given to them.
	2. Technology option-I (TO- I)	Common maize (malted roasted) 50 gm, sprouted & roasted green gram 25 gm, Groundnut roasted 10 gm + sugar 15 gm, ¹ / ₂ cup milk. ¹ / ₂ cup milk
	3. Technology option-II (TO-II)	QPM (malted roasted) 50 gm, sprouted & roasted green gram 25 gm, Groundnut roasted 10 gm + sugar 15 gm, ¹ / ₂ cup milk.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP Directorate of maize research,ICAR (Quality Protein Maize products for human nutrition by Usha Singh,DRRPCAU)
5.	Production system and thematic area	Designing and development for high nutrient efficiency diet
6.	Performance of the Technology with performance indicators	Increase in weight of children after feeding supplementary feeds for three months.
7.	Final recommendation for micro level situation	QPM based supplementary have play important role in improvement of health status of children with weight increase more than 5-20 percent.

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8.	Constraints identified and feedback for	Seasame used in supplementary feed was not grind properly at rural level
	research	so suggested for groundnut instead of seasame
9.	Process of farmers participation and their	Farmer participation was friendly and they showed positive attitude for
	reaction	supplementary food.

Initial and final weight of nine children consuming QPM based supplementary food (Age 1.4 – 2.5 years)

Initial	11.3	10.9	9.4	12.4	10.3	9.5	8.3	9.2	11.3
weight									
Final weight	12.0	11.8	11.0	13.3	11.4	10.7	9.2	10.1	12.6
Difference	0.7	0.9	1.6	0.9	1.1	1.2	0.9	0.9	1.3
in weight									
% increase	6.19	8.25	17.02	7.25	10.6	12.63	10.84	9.78	11.5
in weight									

Initial and final weight of nine children consuming simple maize based supplementary food (Age 1year – 2.5 years)

Initial	11.4	7.7	8.9	13.1	12.9	13.1	8.8	8.6	8.8
weight									
Final weight	12.2	8.3	10.1	14.0	13.9	14.0	9.8	9.7	9.6
Difference	0.8	0.6	1.2	0.9	1.0	0.9	1.0	1.1	0.8
in weight									
% increase	7.01	7.79	13.48	6.87	7.75	6.87	11.36	12.79	9.09
in weight									

Initial and final weight of nine children not consuming any supplementary food (Age 1.5year – 2.5 years)

Initial	11.0	10.8	10.7	9.3	8.3	6.4	8.5	8.6	7.9
weight									
Final weight	11.5	11.4	11.5	10.2	9.3	7.0	9.0	9.3	8.6
Difference	0.5	0.6	0.8	0.9	1.0	0.6	0.5	0.7	0.7

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in weight										
% increase	4.5	5.55	7.47	9.67	12.04	9.3	5.88	8.13	8.86	
in weight										
Increase in we	eight of child	ren consum	ing QPM/ commo	n maize base	d supplemen	tary foods and	those who are	not consuming		
supplementar	y foods									
Increase in wo	eight of child	ren not con	suming suppleme	entary food						
	Initial wa		Final weight	Difference		% incre	% increase in weight			
	Initial we	eigint	r mai weight	weight	weight		5-10%	10-15%	15-20%	
	6.4-11.0		7.0-11.5	0.5-1.0	0.5- 1.0		7	1	-	
Increase in wo	eight for babi	ies consumi	ng QPM based su	oplementary	food		·			
	8.3-12.4		9.2-13.3	0.7-1.6		0	4	4	1	
Increase in wo	eight for babi	ies consumi	ng common maize	based supple	ementary foo	d				
	7.7 - 13.1		8.3 - 14.0	0.6 - 1.2		0	6	3	-	

78 percent children not consuming any supplementary foods have weight increase of 5-10% after three month of study, whereas 40 percent children taking QPM based supplementary foods have weight increase under 10-15percent and 40 Percent fall under 5-10 percent, and rest 11 percent have weight increase ranges between 15-20 percent. 66 percent children consuming simple maize based supplementary foods have weight increase under 5 -10percent and 33.3 percent fall under 10-15 percent weight increase. No one child in case of any kind of supplementary food have weight increase less than 5percent.

Thematic area:

Problem definition:

Technology assessed:

Table:

Technology	No. of	Yi	ield component	t	Disease/	Yield	Cost of	Gross	Net return	BC
option	trials	No. of	No. of	Test wt.	insect pest		cultivation	return		ratio
		effective	spikelet per	(100	incidence	(q/ha		(Rs/ha)	(Rs./ha)	
		tillers/hill	panicle	grain	(%))	(Rs./ha)			
				wt.)						

Results: Result awaited

OFT-7

Home Science

1.	Title of On farm Trial	Study of enhancement of storage duration (in days) of fresh Button mushroom at different condition.
2.	Problem diagnosed	Mushroom are perishable in nature so small grower facing problem in marketing of fresh mushroom
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	
	1. Farmers Practice (FP)	Packing of milky/button mushroom in local polythene packs with 2-3 holes after washing in KMS soilution

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	2. Technology option-I (TO- I)	Packing of milky/button mushroom in local polythene packs with 5% vent are in unwashed condition
	3. Technology option-II (TO-II)	Packing of milky/button mushroom in polypropylene bags of about 100- gauge thickness with perforation having vent area of 5% after washing in 0.05% KMS solution
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Technical bulletin- post harvest technology of mushroom, Himachal Pradesh, Solan
5.	Production system and thematic area	Storage loss minimization technique.
6.	Performance of the Technology with performance indicators	Duration of storage on the basis of 5-10 % weight loss Spolage percentage
		Sensory evaluation at room temperature
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area:

Problem definition:

Technology assessed:

Table:

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Technology	No. of	Yi	eld component	t	Disease/	Yield	Cost of	Gross	Net return	BC
option	trials	No. of	No. of	Test wt.	insect pest	(Л	cultivation	return	$(\mathbf{D}_{\mathbf{r}}, \mathbf{d}_{\mathbf{r}}, \mathbf{r})$	ratio
		effective tillorg/bill	spikelet per	(100 grain	(%)	(q/na	(Ba/ha)	(KS/na)	(Ks./na)	
		uners/mm	panicie	wt.)	(70))	(K 5./IIa)			

Results:

Note - During Review meeting of OFT finalization this OFT was cancelled and another OFT on Carrot Jam will be circulated later.

OFT-8

Agricultural engineering

1.	Title of On farm Trial	Assessment and evaluation of the Turbo Happy Seeder for sowing wheat
		into heavy rice residues.
2.	Problem diagnosed	 After paddy harvesting required management of heavy rice residues As compare to tradition methods of sowing wheat required more labor, cost, water requirement and Time. Tradition sowing of wheat Crop residues can not play an important role in replenishing soil health and reducing environmental pollution from stubble burning.

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3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	
	Farmers Practice (FP)	Line sowing
	Technology option-I (TO-I)	Sowing of zero till cum seed cum fertilizer machine
	Technology option-II (TO-II)	Happy Seeder
4.	Source of Technology (ICAR/	Central Institute of Agricultural Engineering (CIAE-Bhopal)
5.	AICRP/SAU/other, please specify) Production system and thematic area	Punjab Agricultural University, Ludhiana Farm Mechanization
6.	Performance of the Technology with performance indicators	Cultivation cost, Number of irrigation, field capacity, yield (yield/ha), B: C ratio.
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area:

Problem definition:

Technology assessed:

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Table:

Technology	No. of	Yi	eld component	t	Disease/	Yield	Cost of	Gross	Net return	BC
option	trials	No. of	No. of	Test wt.	insect pest		cultivation	return		ratio
		effective	spikelet per	(100	incidence	(q/ha		(Rs/ha)	(Rs./ha)	
		tillers/hill	panicle	grain	(%))	(Rs./ha)			
				wt.)						

Results: Awaited

OFT – 9 Agriculture engineering 2020-21

1.	Title of On farm Trial	Assessment of potato bed planter with traditional sowing technique of Potato crop.
2.	Problem diagnosed	More water consumption, More labour cost, less production in Potato
3.	Details of technologies selected for	Farmers practice: Potato sowing in plane field.
	assessment/refinement	T.O.1: Potato sowing in ridge bed field
	(Mention either Assessed or Refined)	T.O.2: Potato sowing by potato bed planter
4.	Source of Technology (ICAR/	Central Institute of Agricultural Engineering (CIAE-Bhopal)
	AICRP/SAU/other, please specify)	• Dr RPCAU, PUSA,
5.	Production system and thematic area	Farm Mechanization
6.	Performance of the Technology with	Cultivation cost, field capacity, labour cost, yield (yield/ha), B:C ratio.
	performance indicators	
7.	Final recommendation for micro level	
	situation	

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8.	Constraints identified and feedback for	
	research	
9.	Process of farmers participation and their reaction	

Thematic area: Farm Mechanization

Problem definition: Delayed Sowing of wheat crop in low lying area Technology assessed:

Farmers practice: Potato sowing in plane field.

T.O.1: Potato sowing in ridge bed field

T.O.2: Potato sowing by potato bed planter

Table :-

				Cost of	Weed	Economics					
Technology option	No. of trials	Field capacity (m.u/ha)	Cost of operation/ Ha.	cultivation excluding weeding	per sq. meter	Yield (q/ha)	Cost of cultivation (Rs./ha) (5+6)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio	
1	2	3	4	4	5	6	7	8	9	10	
Farmers	05										
practice:											
T.O.1											
T.O.2											

Results: Awaited

OFT – 10	Agriculture	engineering	-2019-20

1.	Title of On farm Trial	Comparative study of different cultivation practices for wheat crop
2.	Problem diagnosed	Delayed Sowing of wheat crop in low lying area
3.	Details of technologies selected for	Farmers practice: Rotavator + Broadcasting.
	assessment/refinement	T.O.1: Line sowing on tilled soil with Zero till seed drill cum fertilizer machine
	(Mention either Assessed or Refined)	T.O.2: Zero tillage
4.	Source of Technology (ICAR/	Central Institute of Agricultural Engineering (CIAE-Bhopal)
	AICRP/SAU/other, please specify)	IGKV, Raipur
5.	Production system and thematic area	Resource Conservation
6.	Performance of the Technology with performance indicators	Yield attributes, yield and economics
7.	Final recommendation for micro level situation	The crop production and returns of wheat production using ZT and CT methods. Crop production (qt./ ha.) T1 = 27 ha., T2 = $39q/ha$. and T3 = $37 q/ha$. Gross returns were found T3 Rs. $49330/ha$ in ZT and T1 Rs. $27130/ha$ in CT. Results is conclude T2 and T3 technology is more save water as compare to T1
8.	Constraints identified and feedback for research	Availability of this machine is limited in farmer fields.
9.	Process of farmers participation and their reaction	Farmers were well satisfied with the result of wheat production.

Thematic area: Resource Conservation

Problem definition: Comparative study of different cultivation practices for wheat crop Technology assessed:

- Number of irrigation
- Crop production (yield/ha)
- B:C

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Rotavator + Broadcasting
Line sowing on tilled soil with Zero till seed drill
Line sowing on non-tilled soil with Zero till seed drill

Table: Comparative study of different cultivation practices for wheat crop

		Yield component					Irriga	Total	Cron	Total Cost		Not	
Technology option	No. of trial s	No. of effective tillers/hi ll	No. of plant per sqm.	Plant hight	Tota l area (ha.)	No. of irriga tion	tion hours per ha.	cost in Irriga tion (Rs.)	produ ction (qt./ ha.)	of cultivation wheat (Rs./ha)	Gross return (Rs./h a)	retur n (Rs./h a)	B:C ratio
Farmer practice	7	21	226	27	1 ha.	3	57	7950	27	25700	49680	27130	1.05
T.O.1	7	31	325	32	1 ha.	3	62	8469	39	23550	71760	48210	2.04
T.O.2	7	33	315	36	1 ha.	3	32	4125	37	18750	68080	49330	2.63

The adoption and water use surveys by OFT confirm that ZT saved irrigation time for wheat, but did not significantly reduce the number of irrigations. Total tube well water volume applied to ZT was 2,200 m3 compared to 2,500 m3 for conventional tillage, a statistically significant water saving of 13.4%, which was primarily achieved in the first irrigation. The higher yield and lower water use result in significantly higher water productivity indicators for ZT wheat. After analysis T3 technology saved irrigation time for wheat, but did not significantly reduce the number of irrigations.

The crop production and returns of wheat production using ZT and CT methods. Crop production (qt./ ha.) T1 = 27 ha., T2 = 39q/ha. and T3 = 37 q/ha. Gross returns were found T3 Rs. 49330/ha in ZT and T1 Rs. 27130/ha in CT. Results is conclude T2 and T3 technology is more save water as compare to T1.

OFT-11

Agricultural engineering 2019-20

1.	Title of On farm Trial 2019-20	Assessment of potato bed planter with traditional sowing technique of Potato crop.
2.	Problem diagnosed	More water consumption, More labour cost , less production in Potato
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	
	1) Farmers Practice (FP)	Potato sowing in plane field
	2) Technology option-I (TO-I)	Potato sowing in ridge bed
	3) Technology option-II (TO-II)	Potato sowing by potato bed planter on ridge bed
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	Cultivation cost, field capacity, labour cost, yield (yield/ha), B: C ratio.
7.	Final recommendation for micro level situation	Finely concluded that B C ratio (5.76) of this study T2 is very high as compare to other technology, and farmer saving the money, time and seed with the help of potato bed planter machine.
8.	Constraints identified and feedback for research	This machine is very limited at farmer field.

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9.	Process of farmers participation and their	Farmers were well satisfied with the result of potato production
	reaction	

Thematic area: Farm machinery

Problem definition: Assessment of potato bed planter with traditional sowing technique of Potato crop. Technology assessed:

- Cultivation cost,
- Field capacity,
- Labour cost,
- Yield (yield/ha),
- B:C ratio.

Table: Comparative study of different cultivation practices for Potato crop

Technology option	No. of trials	Total area (kattha)	Field capacity ha./day	Labour cost (Labour/ha.)	Total Labour cost	Machine cost /ha.)	Crop production (qt./ ha.)	Total Cost of cultivation potato (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	BC ratio
Farmer practice	7	4.5	-	47	18800	-	132.5	46500	136000	87500	1.92
T.O.1	7	4.5	-	43	17200	-	124.5	50500	145000	90400	1.79
T.O.2	7	4.5	4.2	2	1200	6050	206	27500	185400	158400	5.76

Based on the above study it can be concluded that with the investment of one rupee in potato cultivation by farmers earned Rs.87500/ ha, T1 Rs.90400/ ha. and T2 Rs.158400, respectively. Save of the labour cost by potato bed planter, it is very use full of sowing of the potato. And field capacity of potato bed planter 4.2 ha/ day. Finely concluded that B C ratio (5.76) of this study T2 is very high as compare to other technology, and farmer saving the money, time and seed with the help of potato bed planter machine.

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OFT 12

Plant Protection 2019-20

1.	Title of On farm Trial	Integrated approaches for management of Die back disease of Mango.
2.	Problem diagnosed	
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	
	4) Farmers Practice (FP)	Blitox 50 @ 2-3 g/L of water.
	5) Technology option-I (TO-I)	I.Cultural practices like pruning and land preparation. II. Alternatively, two spraying of Thiophanate methyl 70 WP 1.5 g/L of water and Chlorothalonil 75 WP @ 1.0 g/l of water at 15 days' interval (Oct-Nov).
	6) Technology option-II (TO-II)	I Cultural practices like pruning and land preparation. II. Drenching of Streptocyclin @ 1 g/10L of water + Blitox 50 @ 4 g/L of water and repeat the application at 30 days' interval (Oct-Nov).
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Central Institute of Agricultural Engineering (CIAE-Bhopal) DRPCAU, PUSA, Samastipur
5.	Production system and thematic area	Farm Mechanization
6.	Performance of the Technology with performance indicators	Cultivation cost, field capacity, labour cost, yield (yield/ha), B: C ratio.

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7.	Final recommendation for micro level	Net return & gross return was more in T_2 i.e drenching of streptocycline
	situation	and blitox and repeat of application at 30 days interval (Oct. Nov.).
		Similarly B:C ratio was also found more in T_2 as compare to T_1
8.	Constraints identified and feedback for	
	research	
9.	Process of farmers participation and their	
	reaction	

Technology	No. of	Yi	ield component	t	Disease/	Yield	Cost of	Gross	Net return	BC
option	trials	No. of	No. of	Test wt.	insect pest		cultivation	return		ratio
		effective tillers/hill	spikelet per panicle	(100 grain wt.)	incidence (%)	(q/ha)	(Rs./ha)	(Rs/ha)	(Rs./ha)	
Farmer practice	7	-	-	-	-	37.72	45000	82984	37984	1.84
T.O.1	/	-	-	-	-	61.15	50000	134530	84530	2.69
T.O.2		_	-	-	_	67.43	50000	148346	98346	2.97

Result : Net return & gross return was more in T_2 i.e drenching of streptocycline and blitox and repeat of application at 30 days interval (Oct. Nov.). Similarly B: C ratio was also found more in T_2 as compare to T_1

3.1.2 Technology Assessed by KVK (Discipline wise)

SI No	l. o.	Discipline	Thematic areas	No. of the technologies (Technology Interventions)	No. of trials	No. of Locations
1	•	Crop Production	INM	4	20	20

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2.	Plant protection	IDM	1	7	7
3.	Enterprises	Farm mechnization	3	15	15
		Resource conservation	1	7	7
4.	Women	High nutrient efficient			
	Empowerment	diet based on qpm maize	2	16	16

Please provide all the OFTs in same format

ATMA, Muzaffarpur funded project under assessment, refinement and validation of technology.

Project - 01

Season:	:	Rabi
Title of the OFT	:	Study of enhancement of storage duration (in days) of fresh Oyster and Button mushroom at different
		condition i.e. Room temperature and Zero Energy Cool Chamber.
Thematic Area	:	Storage loss minimization technique.
Problem diagnosed	:	Mushroom are perishable in nature so small growers are facing problem in marketing of fresh mushroom.
Important Cause	:	Lack of storage facility at local level.
Technology for	:	Sensory evaluation, percent physiological weight loss, percent spoilage loss.
Testing		
Existing Practice	:	Farmers packs mushroom after washing in potassium meta bi sulphite solution and store in simply polythene bags
		with 2-3 holes.
Hypothesis	:	Storage time (in days) increase if mushroom are packed in 100 gauze thick polypropylene bags with 5% vent area
		after washing in 0.05% KMS solution and store in Zero Energy Cool Chamber.
Objective(s)	:	To increase the storage time of mushroom

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		To minimize the economic losses of farmers specially during peak season.
Treatments:	:	
1.Farmers Practice (FP)	:	Packing of button in local polythene packs with 2-3 holes after washing in KMS solution
		Packing of oyster in local polythene packs with 2-3 holes without washing.
2.Technology option-I (TO-I)	:	Packing of oyster /button mushroom in local polythene packs with 5% vent area in unwashed condition at different condition i.e. Room temperature and Zero Energy Cool Chamber.
3.Technology option-	:	Packing of button mushroom in polypropylene bags of about 100-gauge thickness with perforation having vent area
II (TO-II)		of 5% after washing in 0.05% KMS solution at different condition i.e. Room temperature and Zero Energy Cool
		Chamber.
		and Zero Energy Cool Chamber.
Critical Inputs	:	Polypropylene bags of 100-gauge thickness and potassium metabisulphite, Zero Energy Cool Chamber.
Unit Size	:	2
No of Replications	:	6
Total Cost	:	25,000.00
Monitoring Indicator	:	Duration of storage on the basis of 5- 10 % weight loss,
		Spoilage percentage.
		Sensory evaluation at room temperature
Source of Technology		Technical Bulletin- Post harvest Technology of Mushroom, Himachal Pradesh, Solan.

Unit cost:-

Requirement	Amount
Total amount of mushroom needed for storage	2 kg per set x $6 = 12$ kg (three set in two different condition i.e. room temperature and Zero energy cool chamber)
Total no. of mushroom packets needed	60 packets (200 gm in each packets)
Cost of 60 packets (nearly half kg) @ Rs. 180.00	Rs. 180 x 0.5 kg = Rs. 90.00
Cost of 12kg mushroom @ Rs.120.00	Rs. 1440.00
KMS needed @ 0.05% for 10 liter solution	5 gm = Rs.10.00
Total cost per farmers	Rs. 1440.00 + Rs. 90.00 + Rs.10.00 = Rs. 1540.00
Total cost for six farmers	Rs. 1540.00 x 6 = Rs. 9240.00
Total cost of two Zero energy cool chamber	Rs. 7500 x2 = 15,000.00
Miscellaneous expenditure	760.00
Total cost needed for the technology	25000.00

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Result

Comparison of Relative humidity and temperature during the storage period (Last week of March 2020)

	Ave	erage Temperature	of four days	Relative Humidity of four days				
Time	ZECC	Room condition	Difference in	ZECC	Room condition	Difference in relative		
			temperature			humidity		
9am	20.7	22.8	2.1	95	87	8		
2pm	21.5	25.8	4.3	93	81	12		
7am	21.8	23.9	2.1	88	78	10		

Maximum 4.3 reduction in temperature and an increase in RH of about 12per cent in comparison to room condition

was achieved inside the cool chamber. The highest differences were mostly observed during 2.00pm.

Storage performance of oyster mushroom

Spoilage loss percent of oyster mushroom at room condition and ZECC

	Room temp	erature			Zero Energy				
	2nd day	3rd day	4th day	5th day	2nd day	3rd day	4th day	5th day	6th day
Farmer practice	4.5	25	51	spoiled	0	14	28	48	Spoiled
T1	3.9	22	43	spoiled	1.3	13	21	33	Spoiled
T2	0	16	22	50	0	9	22	30	45

The spoilage loss was minimum in case of oyster mushroom stored in plastic punnet (wraped with polythene) and kept in Zero Energy Cool Chamber. The storage life increased for one day i.e. till 6th day for all type of storage bag which are kept in ZECC. The result of plastic punnet for storage was best in all condition

Physical appearance of mushroom stored in different condition

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	Room temp	perature			Zero Energ	Zero Energy cool chamber				
	2nd day	3rd day	4th day	5th day	2nd day	3rd day	4th day	5th day	6th day	
Farmer practice	fresh	Less fresh	fragile	spoiled	fresh	Less fresh	Less fresh	fragile	Spoiled	
T1	fresh	Less fresh	Less fragile	spoiled	fresh	less fresh	Less fresh	Less fragile	Spoiled	
T2	fresh	Less fresh	Less fresh	fragile	fresh	fresh	Less fresh	Less fragile	Fragile	

Freshness lasts for 3rd day in case of oyster mushroom stored in plastic punnet (wraped with polythene) and kept ZECC and It may be marketable till 5th day. In room temperature the same packed mushroom can be sold in market till four day.



Zero Energy cool chamber constructed at farmer field in Kishu Nagar and Ambara

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

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Storage performance of button mushroom

Study of storage performance of button mushroom in different condition

Storage in Room temperature								Storage in Zero energy cool chamber						
Technique	Freshness			Color Veil			Veil	Freshness			Color			Veil
							opening							opening
2nd day														
	Full	Partial	Spoilage	White	Partial	Brown	No. of	Full	Partial	Spoilage	White	Partial	Brown	No. of
	fresh	fresh			white		veil	fresh	fresh			white		veil
			%				opening							opening
							%							%
Farmer			-				7.1	\checkmark						-
Treatment 1			-				5.3	\checkmark						-
Treatment 2			-				15							-
3rd day														
Farmer			5		\checkmark		33							15
Treatment 1			-		\checkmark		25							5
Treatment 2			-		\checkmark		42							16
4th day														
Farmer							66						\checkmark	45
Treatment 1					\checkmark		55					\checkmark		25
Treatment 2							80							35

The result showed that button mushroom can be sold in market till 2nd day of harvesting stored in any type of bag & kept in any condition (Room temperature & Zero energy cool chamber) in the freshness & color stand quite well though cap opening started from 2nd day but the percentage was minimum(7-10%). From third day the freshness & color decreased & cap opening also increased from 25-50% in case of room temperature but freshness & color retained more in case of T1 i.e. unwashed mushroom veil opening was also minimum in this case. So mushroom kept in zero energy cool chamber is marketable since third day. It can be also sold till fourth day at lesser price as color changes to white & freshness also decreases

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Project - 02

Title of the Project: Impact of filter of Artificial Groundwater Recharge Structure for Rainwater Harvesting

1. Roof Top Rain Water Harvesting technique: -

Rooftop Rain Water Harvesting is the technique through which rain water is captured from the roof catchments and recharge to groundwater.

Table 1: Proposed Cost of the Rain Water Harvesting Structure

Sr. No.	Proposed Rain Water Harvesting Structure	Unit	Rate	Total
1	a) Roof top water harvesting	6	12500	75000
	Grand Total			75000

i.	Treatments:	:	
1. Farmer	1. Farmers Practice (FP)		No Practice
2. Techno	ology option-I (TO-I)	:	Filter depth: Boulder 2 meter : 0.5 meter stone : 0.5 Sand
3. Techno	ology option-II (TO-II)	:	Filter depth: Boulder 1.0 meter : 1 meter stone : 0.50 sand fill with bottle : 0.5 Sand
4. Techno	ology option-III (TO-III)		Filter depth: Boulder 1.5 meter : 1 meter stone : charcoal 0.5: 0.5 Sand
ii.	No of Replications	:	6
iii.	Unit Cost	:	12000
iv.	Total Cost	:	75000
V.	Source of Technology		Central Ground Water Board (CGWB)
			Ministry of Jal Shakti, Department of Water Resources, River Development and Ganga
			Rejuvenation

Filter material:

The best method of recharge of rainwater clean is to keep earth and garbage from entering the capacity tank in any case. To do this, most frameworks utilize a pre-or in-tank filter.

Rainwater collected on the rooftop is very pure and clean. However, there are numerous substances, which get mixed up with this unadulterated water on the rooftop (leaves, fledgling droppings, dust and so on.). These contaminants should be shifted before the water is put away. There are three filtration technique shown as Figure 1 and Table 2.

:

 Table 2. Rainwater harvesting filter technique.

- 1. Technology option-I (TO-I)
- 2. Technology option-II (TO-II)
- 3. Technology option-III (TO-III)

Filter depth: Boulder 2 meter, 0.5 meter stone, Sand 0.5 meter

: Filter depth: Boulder 1.0 meter, stone 1 meter, sand fill with bottle 0.50 meter, Sand 0.5 meter

: Filter depth: Boulder 1.5 meter, stone 1 meter, charcoal 0.5 meter, Sand 0.5 meter



Figure 1. Different type filter material for RRWH.

1.2 Components of rooftop rainwater harvesting (Fig. 1)

- 1) Roof catchment
- 2) Down pipe
- 3) First flushing pipe
- 4) Filter Unit



Figure 2. Components of rooftop rainwater harvesting Structure.

2.0 Results:

A set of parameters were chosen to be the most influential ones (Table 1) to determine the feasibility of RRWH in a state. Filter unit has be design by taking the values of those parameters of water before filtration into consideration. Considering relative importance of each parameter, roof area, rainfall and filter capacity. In this study used three technologies for filter such as TO1: Boulder 2 meter, 0.5-meter stone, Sand 0.5 meter, TO2:

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Boulder 1.0 meter, stone 1 meter, sand fill with bottle 0.50 meter, Sand 0.5 meter, and TO3: Boulder 1.5 meter, stone 1 meter, charcoal 0.5 meter, Sand 0.5 meter. The key component of this design is the filter media, where the better result through filter will make this project in good direction. Since the site is in rural area the natural organic material will easily available to utilize it for the purpose of filter unit. Material such as boulder, stone, sand fill with bottle, coal, fine sand etc. So an efficient and economical filter can be design which is feasible to implement anywhere as filter media, for roof top rainwater harvesting structure. Location of RRWH shown as Table 4 and Fig. 3.

Assessment of the filter capacity by Pick discharge (Cum/sec) as per rainfall intensity, coefficient of runoff and catchment area of structure.

Calculated pick discharge site-a, site-b, site-c, site-d, site-e, and site-f, was found 1.55, 0.73, 0.95, 1.25, 1.11 and 2.17 respectively shown as Table 3.

Table 3. Computation	of Peck discharge (Cum/sec)	using rational for	mula for different RRWHS.

Site	Technical	Village	Coefficient of runoff (C)	Rainfall (i)	Roof area	Pick discharge (Cum/sec)	L/s
	Option used			(mm/hr)	(Sq. m)		
Site-a	TO-I	Bhagwatpur	0.8	20/3600000	350	0.001556	1.55
Site-b	TO-III	Dawarikanathpur-A	0.8	20/3600000	165	0.000733	0.73
Site-c	TO-II	Dawarikanathpur-B	0.8	20/3600000	214	0.000951	0.95
Site-d	TO-I	Bhatoliya	0.8	20/3600000	276	0.001227	1.25
Site-e	TO-II	Gobindpur	0.8	20/3600000	250	0.001111	1.11
Site-f	TO-III	KVK saraiya campus.	0.8	20/3600000	490	0.002178	2.17



Figure 3. Location of rainwater harvesting site on satellite Image.

Table 4. Location of Rainwater harvesting structure.

Village	Block	Latitude	Longitude
Bhagwatpur	Madwan	26° 5'5.42"N	85°13'18.99"E
Dawarikanathpur-A	Madwan	26° 4'29.87"N	85°13'53.64"E
Dawarikanathpur-B	Madwan	26° 4'37.17"N	85°14'16.73"E
Bhatoliya	Madwan	26° 3'0.19"N	85°12'8.01"E
Gobindpur	Saraiya	26° 1'52.95"N	85° 5'1.19"E
KVK Saraiya campus	Saraiya	26° 1'53.15"N	85° 8'38.81"E

All calculations relating to the performance of rainwater catchment systems involve the use of runoff coefficient to account for losses due to spillage, infiltration, catchment surface wetting and evaporation, which will all contribute to reducing the amount of runoff.

Filter performance:

For a RRH system designed for direct use of water, a filter is the most important component, like the heart in a human body. Once the water enters this filter, by filter material and recharge to groundwater

About 5-10% of water, depending on the intensity of rainfall, gets rejected by the filter. Passing of 80-90% of roof water through the filter indicates very good and satisfactory performance.

But, the water that reaches the roof to filter tank has still some finer dust particles, which can be removed by the filter. I found the new filter to be really 'maintenance-free' and there is also no need for manual operation to divert the first-flush. But, the downside is during first 5-10 minutes of rain, amount of water rejected is more due to high dirt-load in the first-flush water. Also, such filters require change upper layer of filter (sand) before rainy season with the help of added one mesh. Most such systems require a provision for 'First-Rain' to prevent entry in the filter. In the filter provide one control valve for drain out of fist rainfall. I have found TO-II very good performance, low cost, high infiltrate as compare to TO-I and TOIII, sown as Table 3.

Treatment option	ТОІ	ТОП	TOIII
Parameter			
Max: Intensity of Rainfall for filter	20 mm/hr	20 mm/hr	20 mm/hr
Recharge Rate for filter as per rainfall	18.45 mm/hr	19.45 mm/hr	17.13 mm/hr
Source of power	Gravity	Gravity	Gravity
Cost	Medium	Low	High
Maintenance	All filters require change upper la	yer of filter (sand) before rainy seas	on.
Overall performance	Good	Very Good	Good

Table 3. Comparison of Treatment Options for filter performance.

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Figure 4. Measurement of groundwater level and check the effect of RRWHS around the area.

The lowest increase was recorded groundwater level around the RRWHS. In the study site, the level increased to 9.48 feet in 2020 from 17.74 feet in the year.

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

SI.	Сгор	Thematic area	Technology Demonstrated with	Area (ha)		No. of farmers/ demonstration									Reasons for
190.			detailed treatments	Proposed Actual		SC		ST		Others		Total			shortian m
						Μ	F	Μ	F	Μ	F	Μ	F	Т	acmevement
1.	Rice R. Neelam	Integrated Crop management	DSR with zero tillage machine	5	5	1	0	0	0	10	4	11	4	15	

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2.	Wheat HD2967/K307	Integrated crop management	Package and practice of wheat	5	5	1	0	0	0	10	4	11	4	15	
3.	Seeds of moong, wheat and paddy	Storage loss minimization technique	Infestation and spoilage percentage after three six and nine month of storage	40 bag	40	4	8			8	20	0	0	40	
4.	Vegetable	Micro Irrigation Unit	Water use efficiency and crop production	4 unit	4	1	0	0	0	3	0	4	0	04	
5	Wheat	Farm Mechanization	Line sowing with zero till seed drill cum fertilizer machine & seed and Happy seeder	12 acre		4	1	0	0	5	2	9	3	12	
6	Summer vegetable	Storage loss minimization technique	Increase in storage days and difference in humidity and temperature	3	3	0	1	0	0	1	1	1	2	3	
7	Nutritional packet	Designing and development for high nutrient efficient diet	Weight and clinical symptom of deficiency disease	20	-	0	5	0	0	0	15	0	20	20	
8	Milky Mushroom spawn	Milki mushroom cultivation	Production in kg/kg straw used	20	20	1	4	0	0	4	11	5	15	20	

Details of farming situation

SL No.	Crop	Seaso n	Farming situation (RF/Irriga ted)	Soil type	Sta	atus of s (Kg/ha)	soil)	Previou	Sowing	Harvest	Seasona 1 rainfall	No. of rainy
	Crop				N	P ₂ O ₅	K ₂ O	s crop	date	date	(mm)	days
1	Rice	Khar if	Irrigated	Sandy loam	12 0	60	40	Paddy /Maiz e	10 July	15 Nov.	840	35
2	Wheat	Rabi	Irrigated	Sandy loam	12 0	60	40	Rice/ Maize	1-20 Novem ber	20 March	250	10
3	Maize	Khar if	Irrigated	Sandy loam	12 0	60	150	Wheat / Tori	25 may to 15 June	20 August	840	35
		Rabi	Irrigated	Sandy loam	15 0	75	50	Rice	1 Nov. to 30 Nov.	1 Feburar y	250	10
4	Greeng ram	Sum mer	Irrigated	Sandy loam	20	45	20	wheat	10 march to 30 March	10 June	20	3

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

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Course	Thematic	Name of the	No. of	Area	Yield	(q/ha)	%	*Econ	omics of (Rs./	demonstr ha)	ation	*]	Economic (Rs./	s of checl /ha)	k
Сгор	Area	demonstrated	Farmers	(ha)	Demo	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Total															

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

Pulses

Frontline demonstration on pulse crops (2019-20)

	Thematic	Name of the	No. of	Area	Yield	(q/ha)	%	*Eco	nomics of d (Rs./ł	lemonstra 1a)	tion	*I	Economics (Rs./	s of check ha)	
Сгор	Area	demonstrated	Farmers	(ha)	Demo	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Redgram	ICM&	Improved						35000	102000	67000	2.91	30500	66000	35500	
_	Improved	Variety	27	10	17.00	11.00									
	variety	-					54.54								2.16
	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

Farm implements and machinery (2019-20)

Name of the	Сгор	Name of the technology	No. of Farm	Are a	File observ (output hou	ed ration t/man ur)	% change in major	Lab	or reduc	tion (mar	ı days)	Co	ost reduct Rs.	tion (Rs./I /Unit)	ha or
implement		demonstra ted	er))	Demo ns ration	Che ck	parame ter	Sowi ng	Trans planti ng	Weedi ng	Harvesi ng /picking	Sowi ng	Trans planti ng	Weedi ng	Harvesi ng /picking
Zero till seed drill cum fertilizer machine	Black Mustard	Line sowing	20	5.0 ha	25	12	18.25	03	0	10	05	900	00	3000	1500
Grubber	Mustard / Vegetable	IWM	10	2 ha	10	10	50.00	00	00	50.00	00	00	00	4500	00

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

Other crops

	Themetic	Name of the	No. of	Are	Yield	(q/ha)	%	Ot parai	her neters	*Econ	omics of d (Rs./l	lemonstra na)	ation	*E	conomics (Rs./ł	of check a)	5
Сгор	area	demonstrat ed	Farme r	a (ha)	Demo ns ration	Check	e in yield	Dem o	Chec k	Gross Cost	Gross Retur n	Net Retur n	** BC R	Gross Cost	Gross Retur n	Net Retur n	** BC R
Spawn	Mushroo	Productio				1kg/k		-	-	30/ba	200/k	170	5.6	25/ba	120/k	95	
of Milky	m	n per kg				g				g	g			g	g		
mushroo	cultivatio	straw used				straw											
m	n	Taste															
		Colour			1 kg												
		Keeping			per kg												
		quality	20	-	straw		nil										4.8

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Total									

Other crops (2019-20)

	Them	Name of the	No.	Are	Yield	(q/ha)	%	Ot para	her meter s	dem	*Econom ionstratio	uics of n (Rs./ha	a)	*E	conomics (Rs./l	of check na)	Σ.
Сгор	atic area	y demonstr ated	Far mer	a (ha)	Dem ons ratio n	Che ck	ge in yield	De mo	Che ck	Gross Cost	Gross Retur n	Net Retur n	** BC R	Gross Cost	Gross Retur n	Net Retur n	** BC R
Corian der	ICM	Rajendra Dhania-1			14.00 / 7900 bundl e	8.00 / 450 0 bun dle	1.70			2925. 00	7900.0 0	4975. 00	2.7 0	2925. 00	5000.0 0	2075.0 0	1.7 0
Fenugr eek	ICM	Rajendra Kranti	01	0.2	1.40	1.10	1.18			2450. 00	7635.0 0	5185. 00	3.1 1	2450. 00	6000.0 0	3550.0 0	2.4 4
Carom Seeds	ICM	Rajendra Mani			1.55	1.35	1.17			7750. 00	20670. 00	12920 .00	2.6 6	7750. 00	17550. 00	9800.0 0	2.2 6
Nigella	ICM	Rajendra Shyama			1.20	0.95	1.26			1550. 00	7080.0 0	5530. 00	4.5 6	1550. 00	5200.0 0	3650.0 0	3.3 4
Cauli flower	IDM	T. viride	70	100 m2 each	182.5 0	130. 84	39.4 8			56100 .00	26576 0.00	20966 0	4.7 3	56100 .00	19635 0.00	14025 0.00	3.5
		lotal															

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Livestock

		Name of the	No. of	No.	Maj param	jor leters	%	Oth paran	ner neter	de	*Econo emonstra	mics of tion (Rs	.)	*E	conomic (R	s of cheo s.)	ck
Category	Thematic area	technol ogy demon strated	Farm er	of unit s	Demo ns ration	Chec k	in major paramet er	Demo ns ration	Chec k	Gro ss Cost	Gross Retur n	Net Retur n	** BC R	Gro ss Cost	Gross Retur n	Net Retur n	** BC R
Dairy																	
Cow																	
Buffalo																	
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (Pl. specify)																	
Total																	

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

** BCR= GROSS RETURN/GROSS COST

Fisheries (2019-20)

		Name of			Maj	jor	%	Oth	ner	:	*Econor	nics of		*Ec	onomic	s of che	eck
		the	No.	No.	param	neters	change	paran	neter	der	nonstra	tion (R	s.)		(R s	;.)	1
Categor	Themati	technolog	of	of	Demo		in ·	Demo		Gros	Gros	Net	**	Gros	Gros	Net	**
У	c area	y domonstr	Farm	uni te	ns ratio	che	major	ns ratio	che	S	S Rotu	Retu	BC	S	S Rotu	Retu	BC
		ated	CI	15	n	CK	ter	n	CK	Cost	rn	rn	R	Cost	rn	rn	R
CIFAX	IDM	CIFAX								3159	5258	2099	1.6	2500	3200	7000	1.2
			10	10	20.0	8.0	150			00	00	00	6	00	00	0	8
										00	90	90	0	00	00	0	0
Vitamin	Feed	Vitamin				17.0				3090	5282	2191	1.7	2450	3626	1176	1.4
e minoral	Manage	and	10	10	21.7	2	27.2			80	00	20	00	00	00	00	0
mix	ment	mixture				2				80	00	20	08	00	00	00	0
Commo	Improve	Improved															
n carps	d variety	variety of															
(NFBD)	_	catla,				21.3				3758	6618	2850	17	2735	1158	1723	16
		Jyanti,	10	10	23.01	21.5	7.92			5750	0010	2057	1.7	2155	44.50	1723	1.0
		Rohu and	10			2				79	00	21	60	00	05	05	3
		Amur															
		common															
		Carp															
Mussels																	
Orname																	
ntal																	
fishes																 	
Others																	
(pl.																	
specify)																	

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	T (1								
	Total								
	1000								

* 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

Catego	Name of the	No. of	No.of	Maj param	jor neters	% change in	Oth paran	ler neter	den	*Econo 1onstrat Rs./1	mics of ion (Rs.) unit	or	*E	conomic (Rs.) or 1	s of che Rs./unit	ck
ry	demonstra ted	r	units	Demo ns ration	Chec k	major paramet er	Demo ns ration	Chec k	Gro ss Cost	Gross Retur n	Net Retur n	** BC R	Gro ss Cost	Gross Retur n	Net Retur n	** BC R
	Enterprise developme nt															
Micro Irrigati on Unit	Use of gravity feed micro irrigation for vegetable crop	04	04	04	04					Crop s	standing					

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Happy seeder machin e And Seed/fu el	Line sowing with zero till seed drill cum fertilizer machine & seed and Happy seeder	12	12	12	07	Crop standing
	Total					

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

Women empowerment

Catagory	Nome of technology	No of domenstrations	Observat	tions	Domoniza	
Category	Name of technology	No. of demonstrations	Demonstration	Check	Kemarks	
Farm Women	1 hermetic bag for paddy seed	10	0%	10%	After three month of	
				storage		
	hermetic bag for wheat seed	10	Provided to farm	ers in Octobe	er and result awaited	
	.Hermetic bag for moong	20	Provided to farm	ers in Octobe	er and result awaited	
	storage					
	2. Zero energy cool chambers	3	Three unit completed and Result awaited.			
	to minimize storage loss of					
	summer vegetable.					
	3.Spawn of Milky mushroom	10	Rs. 200/kg	200/kg Rs 120/kg Pro		
					but the rate is 40%	
					more incase of	
					milky mushroom in	

					compare to oyster.
Pregnant women					
Adolescent Girl					
Other women					
Children	Nutritional packet	Consulted Deptt. Of Foods	and Nutrition, Co	llege of com	munity Science. After
	_	its availability it will be pro	vided to children.	-	-
Neonatal					
Infants					

Demonstration details on crop hybrids

Cron	Name of the	Area	Yield	(kg/ha) / 1 parameter	major	Economics (Rs./ha)					
Сгор	Hybrid	Farmers	(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											

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Crore	Name of the	No. of	Area (ha)	Yield	(kg/ha) / 1 parameter	major	Economics (Rs./ha)				
Сгор	Hybrid	Farmers		Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR	
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											

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Cror	Name of the Hybrid	No. of	Area (ha)	Yield	(kg/ha) / 1 parameter	major	Economics (Rs./ha)				
Сгор		Farmers		Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR	
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.	Сгор	Feed Back
No		
1.	Milky mushroom spawn	Production of milky mushroom is one kg per kg residue use, but the selling rate in market is more i.e. Rs.
		200 per kg in compare to oyster.
2.	Hermetic bag	It is very effective for storage of wheat, paddy and other seeds with only 1-2 % infestation.
3	INM in wheat	Farmers grow of wheat with application of RDF along with boron @ 2.5g/lit at two spray 45 and 60 DAS
		recorded higher yield and BCR comprativaly farmers practice.
4.	INM in Rice	Application of RDF and brown manuring @ 25 kg seed of Sesbania at 3 DAT+ vermicompost @ 1.0t/ha
		increased the yield to 39.41 when compared to the farmers (30.86 q/ha). The highest B: C ratio (1.62) was
		registered under RDF and brown manuring @ 25 kg seed of Sesbania at 3 DAT+ vermicompost @ 1.0t/ha.
5.	Zero till seed drill cum	This technology is very good and efficient for sowing of Rabi crop, Saving Rs. 2500.00 / acre in wheat crop
	fertilizer machine	by zero tillge technique.

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6. Grubber Grubber used in all vegetable crop for weeding, and save labour cost 80 %.	
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Extension and Training activities under FLD

Sl.No	Activity	Date	No. of activities	Number of	Remarks
•	Activity		organized	participants	
1.	Field days	06.10.2020	1	18	Paddy, R. Neelam at Ratanpura
		06.10.2020	1	23	Hybrid Paddy 27p33 at Wasidpur
2.	Farmers Training	13.05.2020	1	5	Milky mushroom
		06.10.2020	1	20	Hermetic bag at Ratanpura
		12.10.2020	1	20	Hermetic bag at Basochak
		08/10/2020	1	21	Agricultural Engineering
		11/11/2020	1	34	Agricultural Engineering
3.	Media coverage	-	-	-	-
4.	Training for extension	-	-	-	-
	functionaries				

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

A. Technical Parameters:

Sl. No	Crop Existing demonstrate (Farmer's)		Existin	Yield gap (Kg/ha)w.r.toDistricStatPotontia		Name of Variety +	Numbe r of	Are	Yield obtained (q/ha)			Yield gap minimized (%)			
	demonstrate d	(rarmer s) variety name	(q/ha)	t e yield yiel (D) d(S)	l demonstrate yield (P) d	farmer s	ha	Max.	Min.	Av.	D	S	Р		
1.	Rapeseed &	Local	13.20	1259	1290	2200.00	R. Sufalam	26	10	18.5	13.7	16.1	28.1	25.0	26.6
	Mustard						INM & IPM			0	5	3	2	4	8

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2.	Rapeseed & Mustard	Local	13.20	1259	1290	1800.00	RH-749	181	70	16.5 0	12.7 5	14.6 3	13.9 4	11.8 3	23.0 3
3.	Sesame	Local/krishn a	5.5	8.57	8.73	9.00	Improved variety-RT- 351 INM & IPM	29	10	8.80	8.50	8.70	1.49	-0.34	-3.33

B. Economic parameters

		F	armer's Exis	ting plot		Demonstration plot				
Sl.	Variety demonstrated & Technology	Gross	Gross	Net	P.C	Gross	Gross	Net	P.C	
No.	demonstrated	Cost	return	Return	D.C.	Cost	return	Return	D.C.	
		(Rs/ha)	(Rs/ha)	(Rs/ha)	1 4110	(Rs/ha)	(Rs/ha)	(Rs/ha)	ratio	
1	R. Sufalam	22500.00	58410.00	34510.00	2.60	23800.00	71375.25	47575.25	3.00	
	INM&IPM									
2	Improved variety RH-749	22000.00	58853.00	36853.00	2.68	22500.00	64738.00	42238.00	2.88	
3	Improved variety-RT-351	22500.00	34265.00	11765.00	1.52	25500.00	54824.00	29324.00	2.15	
	INM & IPM									

C. Socio-economic impact parameters

Sl.	Crop and	Total	Produce sold	Selling	Produce	Produce	Purpose for	Employment
No.	variety	Produce	(Kg/household)	Rate	used for	distributed to	which income	Generated
	Demonstrated	Obtained		(Rs/Kg)	own sowing	other farmers	gained was	(Mandays/house

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		(kg)			(Kg)	(Kg)	utilized	hold)
- 1	D	1 (20, 00)	1,500,00	11.25	10.00	1201		1 24
1.	Rapeseed &	1630.00	1500.00	44.25	10.00	120 kg	Agriculture &	In crop season, 24
	Mustard						Education	mandays
	(R. suflam)							
2.	Rapeseed &	1463.00	1400.00	44.25	10.00	53 kg	Agriculture &	In crop season, 22
	Mustard						Education	mandays
	(RH-749)							
3.	Sesame	870.00	800.00	60.00	70.00	00 kg	Agriculture &	In crop season, 35
	(RT-351)						Education	mandays

D. Oilseed Farmers' perception of the intervention demonstrated

Sl.				Farme	ers' Perception	parameters	
No.	Technologies demonstrated (with name)	Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	Improved	1. Oil and oil	Higher yield	This	1. Oil	Up to large scale	1. System approach must be
	variety along	seed cake	and oil	component is	extracting		promoted.
	with INM &	used for	percentage,	economically	small scale		2. Line sowing/ seed sowing
	IPM	human and	medium plant	compatible	industries is		through zero tillage/ seed
		animals	height.	with the	not available		cum fertidrill for getting

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		respectively.		prevalent	as if it will		higher yield.
		2. As it is		farming	produce at		3. Two irrigations must for
		profitable		system of the	large scale.		insufficient moisture.
		enterprise,		concerned			
		3. Increased		district and it			
		the house		need not			
		hold income.		heavy			
				investment so			
				that it can be			
				adopted even			
				by small and			
				marginal			
				famers,			
				thereby uplift			
				the socio-			
				economic			
				status.			
2.	Improved	1.Oil and oil	Higher yield	This	1. Oil	Up to large scale	1. System approach must be
	variety	seed cake	and oil	component is	extracting		promoted.
		used for	percentage,	economically	small scale		2. Line sowing/ seed sowing
		human and	medium plant	compatible	industries is		through zero tillage/ seed
		animals	height.	with the	not available		cum fertidrill for getting
		respectively.		prevalent	as if it will		higher yield.
		2. As it is		farming	produce at		3. Two irrigations must for
		profitable		system of the	large scale.		insufficient moisture.
		enterprise,		concerned			
		3. Increased		district and it			

		the house		need not			
		hold income.		heavy			
				investment so			
				that it can be			
				adopted even			
				by small and			
				marginal			
				famers,			
				thereby uplift			
				the socio-			
				economic			
				status.			
3.	Improved						1. System approach must be
	variety –RT-	Vec	8/10	50%	NO	60	promoted.
	351	1 05	0/10	50%		00	2. Line sowing of seed 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 yield and oil	High yield and oil content	Good performance and ready for
high oil content and grain yield	content		accepting variety for next year
Medium height, more siliqua,	High yield and oil	High yield and oil content	Good performance and ready for
high oil content and grain yield	content		accepting variety for next year
Medium height, more siliqua,	Higher yield and oil	High yield and oil content	Good performance and ready for
high oil content and grain yield	content		accepting variety for next year

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Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training	17.10.2019, Bisunpur Saraiya, Paroo	20
2.	Training	18.10.2019, Dwarika Nathpur, Madwan	23
3.	Training	31.10.2019, Bisunpursaraiya, Paroo	12
4.	Training	01.11.2019, Dwarikanathpur, Madwan	12
5.	Gosthi cum Field day	01.01.2020, Village Shine, Block Kanti	50
OIL seed a	Iditional		
1.	Training	15.11.2019, Basokund, Saraiya	43
2.	Training	16.11.2019, KVK, Saraiya	19
3.	Training	18.11.2019, KVK, Saraiya	19
4.	Training	20.12.2019, Paraiya, saraiya	11
5.	Training cum Field day	17.01.2020, Basudevpatti, Saraiya	20
6.	Field day	13.03.2020, Basudecpatti	27
1.	Field day on sesame	09.06.2020, Chandkware	07

F. Extension activities under CFLD conducted:

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.

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PHOTOGRAPS OF CFLD on Oilseeds



Critical inputs distribution at Village Basokund, Saraiya







Crop growth stage 80 DAS at Village Bisunpur, Paru

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Critical inputs distribution at Village Dwarikanathpur, Madwan







Saraiya

Crop growth stage at 30 DAS at Village Parahiya, Saraiya







Critical Inputs distribution at Bisunpur, Paru

Training Programme ad Dwarikanathpur

Training program at Basokund, Saraiya

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Note: vishunpur Saraiy

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
A. Oil Seed				
	i) Critical input		39905.00	
Sesame	ii) TA/DA/POL etc. for monitoringiii) Extension Activities (Field day)iv)Publication of literature		1348.00	
	Total		41253.00	
Technology Agent	Nil		Nil	
Grant Total			41235.00	
Rapeseed and Mustard	i) Critical input		38292.36.00	
	ii) TA/DA/POL etc. for monitoring		5695.00	
	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total		43987.36	
Technology Agent	Nil	Nil	Nil	
Grant Total		138750.00	85240.36	-2182.36
Oil Seed (Add.)				
Rapeseed & Mustard	i) Critical input		374795.05	
	ii) TA/DA/POL etc. for monitoring		61136.55.00	

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	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total	546000.00	435931.60	110068.40
Technology Agent	Nil		Nil	
Grant Total		546000.00	435931.60	110068.40

Performance of the demonstration under CFLD on Pulses during *Rabi* and summer-2019-20:

A. Technical Parameters:

Sl. No	Crop demonstrate	Existing (Farmer'	Existin g vield	Yie	ld gap (k w.r.to	g/ha)	Name of Variety +	Numbe r of	Are a in	Yie	Yield obtained (a/ha)			Yield gap minimized		
•	d	s) variety	(q/ha)	Distric t	Distric State Pote		Technology	farmer	ha				(%)			
		nume		yield (D)	(S)	yield (P)	d	6		Max •	Min.	Av.	D	S	Р	
1.	Lentil	Local/Aru	9.50	700.00	1068.0	2500.00		63	20	15.7	11.3	13.5	48.4	21.3	-	
		n			0		Improved Variety-			5	8	7	2	0	84.2 2	
2.	Chick pea						HUL-57, INM & IPM									
			10.50	1156.0		2400.00		62	20							
3.	Green gram	Local/Ud		0	1154.0					17.3	12.5	14.9	22.4	22.5		
	_	ai			0		Improved			3	0	0	2	5	-	
							variety-								61.0	

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		6.20			1500.00	GNG-2144	60	20						0
	T 1		7500.0	707.00		. .			0.70	6.50	T < 1	1 00		
	Local		0	707.00		Improved			8.70	6.50	7.61	1.33	-	
						variety-IPM-							7.61	
						02-03, INM								-
						& IPM								49.2
														6

B. Economic parameters

Sl. No.	Variety demonstrated		Farmer's	s Existing plot		Demonstrati	ion plot			
	& Technology demonstrated	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio	Farmers, feedback
1.	HUL-57 Improved Variety, INM & IPM	22500.00	42512.00	20012.00	1.89	24500.00	60726.00	36226.00	2.48	Low yield of pulse crop due to crop damage by blue bull (Nilgai)
2.	GNG-2144 & improved variety	23000.00	48510.00	25510.00	2.11	24500.00	69838.00	45338.00	2.85	and time to time rainfall
3.	IPM 02-03 & INM & IPM	24500.00	43069.00	18569.00	1.79	25500.00	53282.00	27782.00	2.09	

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Note: MSP of lentil @4475/-, MSP of Chickpea @4620/-

C. Socio-economic impact parameters

Sl.	Crop and	Total	Produce sold	Selling	Produce	Produce	Purpose for	Employment
No.	variety	Produce	(Kg/household)	Rate	used for	distributed	which income	Generated
	Demonstrated	Obtained		(Rs/Kg)	own	to other	gained was	(Mandays/house
		(kg)			sowing	farmers	utilized	hold)
					(Kg)	(Kg)		
1.	Lentil- (HUL-	1357.00	1200.00	4475.00	57.00	100.00	Cultivation of	In crop season 35
	57)						next year crop	mandays
							& education of	
2.	Chickpea –	1490.00	1300.00	4620.00	90.00	100.00	children	In crop season 34
	(GNG-2144)							mandays
							Agriculture &	
3.	Green gram	761.00	600.00	5700.00	61.00	100.00	education	In crop season 36
	(IPM-02-03)							mandays
							Cultivation of	
							next year crop	
							& education of	
							children	

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

D. Pulses Farmer's perception of the intervention demonstrated

E. Specific characteristics of Technology and performance

Specific Characteristic			tic	Performance					Performance of Technology Vis-à-vis Local Check					Farmers Feedback					
Improved	variety:	High	yielding	The	effect	of	improved	variety	The	performance	of	technology	The	performances	of	crop	were		

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variety i.e. HUL-57 INM: Seed treatment through Rhizobium and PSB and application of micronutrient.	i.e. HUL-57 along with INM and IPM recorded higher yield.	i.e. improved variety; INM and IPM were recorded higher yield 15.75 q/ha over local check.	gain higher yield due to full package and practice as well as implements of improved technology under supervision of
IPM: Neem oil and chloroporiphos			KVK scientist.
50%+ cypermethrin 5%.			
Improved variety: High yielding	The effect of improved variety	The performance of technology	
variety i.e. GNG-2144.	i.e. GNG-2144 along with INM	i.e. improved variety (GNG-	
	recorded maximum yield.	2144) were recorded higher yield	
		17.33q/ha over local check.	
Improved variety: INM: High yielding	The effect of improved variety		
variety i.e. IPM -02-03.	i.e. IPM 02-03along with INM		
INM: Seed treatment through	and IPM recorded higher yield.		
Rhizobium and PSB and application			
of micronutrient.			
IPM: Neem oil and chloroporiphos			
50%+ cypermethrin 5%.			

F. Extension activities under CFLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training on lentil	13.11.2019, KVK, Saraiya,	19
		Muzaffarpur	
2.	Training on Lentil	18.11.2019, KVK, Saraiya	13
3.	Training on chickpea	18.11.2019, KVK, Saraiya	10
4.	Training on Lentil	19.11.2019 Village Ratanpura,	21
		block-Motipur, Muzaffarpur	
5.	Training on chickpea	21.11.2019 village-	10
		Madwapakar, Block-Saraiya,	
		Muzaffarpur	
6.	Training on chickpea	22.11.2019, KVK, Saraiya	11

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7.	Field day	18.01.2020, Fuladh, Paroo	10
8.	Training cum field day	20.01.2020, ratanpur, Motiupur	30
9.	Field day	23.05.2020, Basochak, Saraiya	08 (during lockdown)

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



Training and Soil health Card distribution at Ratanpura, Motipur





Training programme at Ratanpur, Motipur



Critical inputs distribution at Ratanpura, Motipur



Crop growth stage at 60 DAS at Ratanpura, Motipur



Field day at Ratanpura, Motipur



Critical inputs distribution at KVK CFLD on Chickpea crop



Crop growth stage at 60 DAS at village Fuladh, Paru under CFLD on Chickpea



Field day at Village Fuladh, Paru Under CFLD on Chickpea

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Crop growth stage at 60 DAS under CFLD on Chickpea at Fuladh, Paru



Field day under CFLD on Chickpea at Fuladh, Paru

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Lentil	i) Critical input		142654.16	
	ii) TA/DA/POL etc. for monitoring		11950.36	
	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total		154604.52.00	
Chickpea	i) Critical input		141420.00	
	ii) TA/DA/POL etc. for monitoring		9779.00	
	iii) Extension Activities (Field day)			

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	iv)Publication of literature			
	Total		151199.00	
Green gram	i) Critical input		113456.08	
	ii) TA/DA/POL etc. for monitoring		5310.00	
	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total		118766.08.00	
	Technology Agent	Nil	Nil	Nil
	Total	281741.00	424569.60	(-) 192369.60

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

A) Farmers and farm women (on campus)

	N. C	No. of Participants									Crand Tatal			
Thematic Area	No. of	(Other	•		SC			ST		Gra	and I	otai	
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т	
I. Crop Production														
Weed Management														
Resource Conservation														
Technologies														
Cropping Systems														
Crop Diversification														
Integrated Farming														
Water management														
Seed production														
Nursery management														
Integrated Crop Management	03	48	21	69	03	01	04	0	0	0	51	22	73	
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														

	No. of	No. of Participants									Crand Total			
Thematic Area	NO. 01 Courses		Other			SC			ST	1	Gra	ina 1	otai	
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Τ	
Plant propagation techniques														
Others, if any(INM)														
c) Ornamental Plants														
Nursery Management														
Management of potted plants														
export potential of ornamental														
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														
Dragossing and value addition														
Others, if any														
g) Modicinal 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	05	58	03	51	07	0	07	0	0	0	65	03	68	
Management	05	50	05	51	07	U	07	U	U					
Production and use of organic														
Management of Problematic											<u> </u>	<u> </u>		
soils														
Micro nutrient deficiency in														

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		No. of Participants									C	1.0	. 4 . 1
Thematic Area	No. of		Other	•		SC		ST			Gra	and T	otal
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Τ
crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and													
Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal													
products													
Others, if any Goat farming													
V. Home Science/Women													
empowerment													
Household food security by													
kitchen gardening and nutrition	2	0	8	8	0	4	4	0	0	0	0	12	12
gardening													
Design and development of													
low/minimum cost diet													
Designing and development for													
high nutrient efficiency diet													
Minimization of nutrient loss in	01	09	23	32	0	0	0	0	0	0	09	23	32
processing	01	07	23	52	U	0	0	U	U	v			
Gender mainstreaming through													
SHGs													
Storage loss minimization													
techniques													
Enterprise development													
Value addition	01	05	04	09	0	01	01	0	0	0	05	05	09
Income generation activities for	01	0	19	19	0	0	0	0	0	0	0	19	19
empowerment of rural Women	01	0	17	17	U	0	0	U	U	U			
Location specific drudgery													
reduction technologies													
Rural Crafts													
Capacity building													
Women and child care	01	0	16	16	0	01	01	0	0	0	0	17	17
Mushroom Production	2	08	09	17	04	03	07	0	0	0	12	12	24
VI. Agril. Engineering													
Installation and maintenance of													
micro irrigation systems													
Use of Plastics in farming													

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	No of	No. of Participants								Crond Total			
Thematic Area	No. of	(Other	•		SC			ST		Gra	and I	otal
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т
practices													
Production of small tools and													
implements													
Repair and maintenance of													
farm machinery and													
implements													
Small scale processing and													
value addition													
Post-Harvest Technology													
Other, Agro Metrology													
Soil & Water conservation	02	25	0	25	04	0	04	0	0	0	29	0	29
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													

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	No. of Courses			Coursed Tradel									
Thematic Area		Other				SC		ST			Gra	and I	otal
		Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
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	18	153	103	246	18	10	28	0	0	0	171	113	283

B) Rural Youth (on campus)

Thematic Area	No. of Courses			Crond Total									
		Other			SC			ST			Granu Totai		
		Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т
Mushroom Production	6	86	56	142	9	2	11	0	0	0	95	58	153
Bee-keeping													
Integrated farming													
Seed production													

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Thematic Area	No. of Courses	No. of Participants										Crand Tatal			
		Other				SC			ST		Granu Totai				
		Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т		
Production of organic inputs															
Integrated Farming															
Planting material production															
Vermi-culture															
Sericulture															
Protected cultivation of															
vegetable crops															
Commercial fruit production															
Repair and maintenance of	1	12	0	12	4	0	4	0	0	0	16	0	16		
farm machinery and															
implements															
Nursery Management of															
Horticulture crops															
Training and pruning of															
orchards															
Value addition															
Production of quality animal															
products															
Dairying															
Sheep and goat rearing															
Quail farming															
Piggery															
Rabbit farming															
Poultry production															
Ornamental fisheries															
Enterprise development															
Para vets															
Para extension workers															
Composite fish culture															
Freshwater prawn culture															
Shrimp farming															
Pearl culture															
Cold water fisheries															
Fish harvest and processing															
technology															
Fry and fingerling rearing															
Small scale processing															
Post-Harvest Technology												-			
Tailoring and Stitching															
Rural Crafts							-								
SWC	1	10	1	11	8	0	8	0	0	0	11	8	19		
SWE	1	9	4	13	1	1	2	0	0	0	10	5	15		
Vermi compost	3	38	10	48	16	2	18	0	0	0	54	12	66		
Farm machinery	1	12	0	12	10	0	10	0	0	0	16	0	16		
	1	14	U	12	- +	U	4	U	U	U	10	U	10		

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Thematic Area	No. of Courses			Crond Total									
		Other			SC			ST			Granu Totai		
		Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Income generation	1	0	19	19	0	1	1	0	0	0	0	20	20
TOTAL	14	167	90	257	42	6	48	0	0	0	202	103	305

C) Extension Personnel (on campus)

				Crand Tatal									
Thomatic Area	No. of Courses	(Other	•		SC			ST		GĽ	ina 1	otai
		Μ	F	Т	Μ	F	Т	Μ	F	Т	М	F	Т
Productivity enhancement in													
field crops													
Value addition													
Integrated Pest Management													
Integrated Nutrient													
management													
Rejuvenation of old orchards													
Protected cultivation													
technology													
Formation and Management of													
SHGs													
Group Dynamics and farmers													
organization													
Information networking among													
farmers													
Capacity building for ICT													
application													
Care and maintenance of farm													
machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder													
production													
Household food security													
Women and Child care													
Low cost and nutrient efficient													
diet designing													
Production and use of organic													
inputs													
Gender mainstreaming through													
SHGs													
TOTAL													

D) Farmers and farm women (off campus)

Thematic Area	No. of Courses		Othe	r		SC			ST		Grand Lotal			
		Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т	
I. Crop Production														
Weed Management														
Resource Conservation	1	11	0	11	0	0	0	0	0	0	11	0	11	
Technologies	1	11	0	11	0	0	0	0	0	0	11	0	11	
Cropping Systems														
Crop Diversification														
Integrated Farming														
Water management														
Seed production														
Nursery management														
Integrated Crop	1.0	0.41	50	200	4.1	10	50	0	0	0	202	70	259	
Management	16	241	58	299	41	18	39	0	0	0	282	/6	358	
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														

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		of No. of Participants									C	1.1	
Thematic Area	No. of		Other	•		SĈ			ST		Gr	and I	otai
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т
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													
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													
Processing and value													
addition													
Others if any													
g) Medicinal and													
Aromatic Plants													
Nursery management													
Production and													
management technology													
Post-harvest technology													
and value addition													

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				No. a	f Par	ticipa	ants				C	1 7	
Thematic Area	No. of		Other	r		SĈ			ST		Gr	and I	otal
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т
Others, if any													
III. Soil Health and													
Fertility Management													
Soil fertility management													
Soil and Water			. –			0	<u>.</u>	0	0	0	10	. –	
Conservation	3	14	17	31	04	0	04	0	0	0	18	17	35
Integrated Nutrient	13	204	30	234	19	08	27	0	0	0	223	38	361
Management Due due tien en deue ef													
Production and use of	02	52	0	52	03	0	03	0	0	0	55	0	55
Management of													
Problematic soils													
Micro nutrient deficiency													
in crops													
Nutrient Use Efficiency													
Soil and Water Testing	3	38	5	43	0	0	0	0	0	0	38	5	43
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													
Household food security by													
kitchen gardening and													
nutrition gardening													
Design and development of													
low/minimum cost diet													
Designing and development													
for high nutrient efficiency													
diet													
Minimization of nutrient	01	11	Ο	11	01	0	01	Ο	0	0	12	0	12
loss in processing	01	11	U	11	01	v	01	U		U	12	U	14
Gender mainstreaming													
through SHGs													

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	NL			No. c	of Par	ticipa	ants				C		- 4 - 1
Thematic Area	NO. OI		Other	ſ		SĊ			ST		Gr	and I	otai
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т
Storage loss minimization													
techniques	2	7	25	32	2	5	7	0	0	0	9	30	39
Enterprise development													
Value addition	5	73	03	76	06	05	11	0	0	0	79	08	87
Income generation													
activities for empowerment													
of rural Women													
Location specific drudgery													
Purel Crofts													
Rural Craits													
Woman and shild sare	2	17	$\gamma\gamma$	20	2	0	0	0	0	0	10	21	50
Others, if any Mushroom	Δ	1/	LL	39	Z	9	9	0	0	0	24	07	30
Production	01	20	03	23	04	0	04	0	0	0	24	07	51
VI Agril Engineering													
Installation and													
maintenance of micro													
irrigation systems													
Use of Plastics in farming		•	0	•	-	_	-	_	0	0		0	22
practices	1	28	0	28	5	0	5	0	0	0	33	0	33
Production of small tools													
and implements													
Repair and maintenance of													
farm machinery and													
implements	2	47	1	48	4	0	4	0	0	0	51	1	52
Small scale processing and													
value addition													
Post-Harvest Technology			-										
SWE	1	21	0	21	4	0	4	0	0	0	25	0	25
Others, if any(FMP)	2	32	0	32	6	0	6	0	0	0	38	0	38
Krishi Mausam Seva	03	35	13	48	01	0	01	0	0	0	36	13	49
Agrometrology	01	02	08	10	02	0	02	0	0	0	04	08	12
VII. Plant Protection													
Integrated Pest	3	32	0	32	1	0	1	0	0	0	33	0	33
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													
VIII. Fisheries Integrated fish farming													

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	N	of No. of Participants									C		- 4 - 1
Thematic Area	NO. OI		Other	ſ		SĊ			ST		Gr	and I	otal
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т
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													
Dianting material													
Planting material													
Die agente production													
Dia nastiaidas production													
Bio-pesticides production													
Bio-leftilizer production													
Vermi-compost production													
Organic manures													
Droduction of fry and													
fingerlings													
Production of Page colonics													
and way sheets													
Small tools and implements													
Broduction of livesteels													
food and fodder													
Droduction of Eich food													
Others if any													
Omers, ii ally]							

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	No of			No. o	of Par	ticip	ants				Cr	and T	atal
Thematic Area			Othe	r		SC			ST		Gſ		otai
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т
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	62	885	185	1070	105	45	148	0	0	0	990	234	1324

E) RURAL YOUTH (Off Campus)

Thematic Area	No. of			No.	of Pa	artic	ipan	ts			G	rand	Total
	Courses		Othe	r		SC			ST				
		Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of													
vegetable crops													
Commercial fruit													
production													
Repair and maintenance of													
farm machinery and													
implements													

Nursery Management of						
Horticulture crops						
Training and pruning of						
orchards						
Value addition						
Production of quality animal						
products						
Dairying						
Sheep and goat rearing						
Quail farming						
Piggery						
Rabbit farming						
Poultry production						
Ornamental fisheries						
Para vets						
Para extension workers						
Composite fish culture						
Freshwater prawn culture						
Shrimp farming						
Pearl culture						
Cold water fisheries						
Fish harvest and processing						
technology						
Fry and fingerling rearing						
Small scale processing						
Post-Harvest Technology						
Tailoring and Stitching						
Rural Crafts						
Others, if any					 	
TOTAL						

F) Extension Personnel (Off Campus)

	No of			No. o	f Par	ticip	ants				Cm	and T	otol
Thematic Area		Ū	Other	•		SC			ST		Gr		otai
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т
Productivity enhancement in													
field crops													
Integrated Pest Management													
Integrated Nutrient													
management													
Rejuvenation of old orchards													
Protected cultivation													
technology													
Formation and Management of													
SHGs													

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	No. of			No. o	f Paı	rticip	ants				Cm	and T	otol
Thematic Area	INO. 01		Other			SC	-		ST	-	Gra		otai
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т
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	2	0	59	59	0	4	4	0	0	0	0	63	63
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
ICM	3	28	57	85	7	6	13	0	0	0	35	63	98
Control and Management of													
Dessert Locust	2	36	16	52	4	4	8	0	0	0	40	20	60
Low cost Nutrient rich foods	1	0	28	28	0	2	2	0	0	0	0	30	30
SWC	2	50	6	56	11	0	11	0	0	0	61	6	67
TOTAL	10	114	166	280	22	16	38	0	0	0	136	182	318

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

	No. of			No.	of P	artici	pants				Crea	nd T	atal
Thematic Area	Cours	(Other	•		SC			ST		Gra	na i (Jiai
	es	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
I. Crop Production													
Weed Management													
Resource Conservation	01	11	Δ	11	0	•	0	0	0	0	11	Δ	11
Technologies	01	11	U	11	U	U	0	0	0	0	11	U	11
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													

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	No. of			No.	of P	artici	pants				Creat	nd To	4-1
Thematic Area	Cours	(Other			SC			ST		Gra		otai
	es	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т
Seed production													
Nursery management													
Integrated Crop Management				36	4						33		42
	19	289	79	8	4	19	63	0	0	0	3	98	1
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
TOTAL				37	4						34		43
	20	300	79	9	4	19	63	0	0	0	4	98	2
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													

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	No. of			of P	artici	pants				Cma	nd Ta	stal	
Thematic Area	Cours		Other			SC			ST		Gra		Dial
	es	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Т
Management of potted plants													
Export potential of ornamental													
plants													
Propagation techniques of													
Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation crops													
Production and Management													
Dreassing and value addition													
Processing and value addition													
TOTAL													
TUTAL													
e) Tuber crops													
technology													
Drocossing and value addition													
Others, if any													
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	3	14	17	31	0 4	0	04	0	0	0	18	17	35
Integrated Nutrient Management	18	262	33	29 5	26	8	34	0	0	0	28 8	41	32 9
Production and use of organic	02	52	0	52	03	0	03	0	0	0	55	0	55
Management of Problematic				ļ	5		ļ				ļ	ļ	

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	No. of	of No. of Participants									Cma	T d	4.01
Thematic Area	Cours	(Other	,		SC			ST		Gra		Dial
	es	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Τ
soils													
Micro nutrient deficiency in													
crops													
Nutrient Use Efficiency													
Soil and Water Testing	03	38	05	43	0	0	0	0	0	0	38	05	43
Others, if any													
TOTAL	26	366	55	42 1	3 3	8	41	0	0	0	39 9	63	46 2
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	02	0	08	08	0	04	04	0	0	0	0	12	12
gardening													
Design and development of													
low/minimum cost diet													
Designing and development for													
high nutrient efficiency diet													
Minimization of nutrient loss in	02	20	23	43	0	0	01	0	0	0	21	23	44
processing	02	20	23	15	1	Ŭ	01	Ŭ	Ŭ	U			
Gender mainstreaming through SHGs													
Storage loss minimization	02	07	25	22	0	05	07	0	0	0	09	30	39
techniques	02	07	25	32	2	05	07	0	0	0			
Enterprise development													
Value addition	6	70	07	05	0	05	11	0	0	0	0.4	10	06
	0	/8	07	85	6	05	11	0	0	0	84	12	96
Income generation activities for	01	0	10	10	0	0	0	0	0	0	0	19	19
empowerment of rural Women	01	0	19	19	0	0	0	0	0	0			
Location specific drudgery													
reduction technologies													
Rural Crafts													
Capacity building													

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	No. of No. of Participants										Cma	nd Ta	4.01
Thematic Area	Cours	ſ	Other			SC			ST		Gra	na 10	tal
	es	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Women and child care	03	17	48	55	02	10	12	0	0	0	19	60	79
Others, if any Mushroom	03	28	21	10	08	03	11	0	0	0	36	24	60
Production	05	20	21	49	08	05	11	0	0	0			
TOTAL	10			• • • •	10						4 6 9	100	34
VI A guil Engineering	19	150	151	291	19	27	46	0	0	0	169	180	9
VI. Agrii. Engineering													
micro irrigation systems													
Use of Plastics in farming													
practices	1	28	0	28	5	0	5	0	0	0	33	0	33
Production of small tools and													
implements													
Repair and maintenance of farm													
machinery and implements	2	47	1	48	Δ	0	Δ	0	0	0	51	1	52
Small scale processing and	2	<u>т</u> /	1	-10	-	0	-	0	0	0	51	1	52
value addition													
Post-Harvest Technology													
SWE	1	21	0	21	4	0	4	0	0	0	25	0	25
Others, if any (FMP)	2	32	0	32	6	0	6	0	0	0	38	0	38
Soil & Water	02	25	0	25	04	0	04	0	0	0	29	0	29
Krishi Mausam Seva	03	35	13	48	01	0	01	0	0	0	36	13	49
Agrometrology	01	02	08	10	02	0	02	0	0	0	04	08	12
Soil & Water Conservation	2	25	0	25	04	0	04	0	0	0	29	0	29
TOTAL													26
	14	215	22	237	30	0	30	0	0	0	245	22	7
VII. Plant Protection													
Integrated Pest Management	3	32	0	32	1	0	1	0	0	0	33	0	33
Integrated Disease Management													
Bio-control of pests and													
diseases													
Production of bio control agents													
and bio pesticides													
Others, if any													
TOTAL	3	32	0	32	1	0	1	0	0	0	33	0	33
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery													
management													
Carp try and fingerling rearing													
Composite fish culture & fish													
disease													
Fish feed preparation & its													
application to fish pond, like													
nursery, rearing & stocking													

	No. of	of No. of Participants								Crea	nd Ta	tal	
Thematic Area	Cours		Other	•		SC			ST		Gra		otai
	es	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
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													

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	No. of			No.	of Pa	artici	pants				Cma	nd Ta	stal
Thematic Area	Cours		Other	,		SC			ST		Gra		nai
	es	Μ	F	Т	Μ	F	Т	Μ	F	Τ	Μ	F	Τ
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. specify)													
TOTAL		106		136	12						119		15
	82	3	307	0	7	54	181	0	0	0	0	363	43

ii. RURAL YOUTH (On and Off Campus)

	No of	No. of Participants									C	nand T	otol
Thematic Area			Othe	r		SC			ST		G	rand 1	otai
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Mushroom	6	96	56	142	0	C	11	0	0	0	05	50	152
Production	0	00	50	142	9	Z	11	0	0	0	95	38	155
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	1	10	0	12	4	0	4	0	0	0	16	0	16
farm machinery	1	12	0	12	4	0	4	0	0	0	10	0	10
and implements													
Nursery													
Management of													
Horticulture crops													
Training and													
pruning of													
orchards													

	Noof	No. of Participants									C	nond 7	lotal
Thematic Area	INO. 01 Courses		Othe	r		SC			ST	-	6	ranu i	otai
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
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													
Enterprise													
development													
Others if any (ICT													
application in													
agriculture)	1	10	1	11	0		0	0	0	0	11	0	10
SWC		10		11	8	0	8	0	0	0	10	8	19
SWE	1	9	4	13			2	0	0	0	10	5	15

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	No of			N	o. of]	Parti	cipants	5			C	nond T	'otol
Thematic Area			Othe	r		SC			ST		G		otai
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Vermi compost	3	38	10	48	16	2	18	0	0	0	54	12	66
Farm machinery	1	12	0	12	4	0	4	0	0	0	16	0	16
Income	1	0	19	19	0	1	1	0	0	0	0	20	20
generation													
TOTAL	14	167	90	257	42	6	48	0	0	0	202	103	305

iii. Extension Personnel (On and Off Campus)

	No of			N	o. of l	Partic	pants	5				C man d	Tatal
Thematic Area	NO. 01		Other	r		SC			ST			эгапа	Total
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Productivity													
enhancement in													
field crops													
Integrated Pest													
Management													
Integrated													
Nutrient													
management													
Rejuvenation of													
old orchards													
Value addition													
Protected													
cultivation													
technology													
Formation and													
Management of													
SHGs													
Group Dynamics													
and farmers													
organization													
Information													
networking													
among farmers													
Capacity building													
for ICT													
application													
Care and													
maintenance of													
farm machinery													
and implements													
WTO and IPR													
issues													

Management in													
farm animals													
Livestock feed													
and fodder													
production													
Household food	2	0	50	50	0	4	4	0	0	Δ	0	62	62
security	Z	0	39	39	0	4	4	0	0	0	0	05	05
Women and													
Child care													
Low cost and													
nutrient efficient													
diet designing													
Production and													
use of organic													
inputs													
Gender													
mainstreaming													
through SHGs													
Crop													
intensification													
Others if any													
ICM	3	28	57	85	7	6	13	0	0	0	35	63	98
Control and													
Management of													
Dessert Locust	2	36	16	52	4	4	8	0	0	0	40	20	60
Low cost and													
Nutrition	1	0	28	28	0	2	2	0	0	0	0	30	30
SWC	2	50	6	56	11	0	11	0	0	0	61	6	67
TOTAL	10	114	166	280	22	16	38	0	0	0	136	182	318

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

Disciplin e	Clientele	Title of the	Durati on in	Venue (Off /	N pa	lumber (articipar	of nts	Num	ber of S	C/ST
		training program me	days	On Camp us)	Mal e	Fema le	Tot al	Mal e	Fema le	Tot al
	Practicing									
	farmer	-								
Crop										
Productio										
n										
Agronom	1.	Weed								01
У		management in	01	Online	11	0	11	1	0	
		Paddy								
	2.	Weed	01	Off	09	23	32	00	00	00

		management in kharif paddy								
	3.	Contingent crop management in flood effected area	01	Online	9	1	10	01	00	01
	4.	Integrated Pest Management	01	Off	08	00	08	00	00	00
	5.	Scientific cultivation of pre rabi arhar	01	Off	17	01	18	02	00	02
	6.	Scientific cultivation of tomato & potato	01	Off	33	00	33	05	00	05
	7.	Biofortified crop cultivation	01	On	00	05	05	00	01	01
	8.	Biofortified crop cultivation	01	Off	19	19	38	02	07	09
	9.	Awareness about biofortified varieties of cereals	02	Off	21	14	35	05	02	07
	10.	Awareness about Kisan Acts	02	On	42	16	58	02	00	02
	11.	Scientific cultivation of wheat	01	off	22	00	22	2	00	02
	12.	Scientific cultivation of wheat	01	off	27	00	27	3	00	03
	13.	Fertiliser management in Rabi crop	01	off	25	00	25	4	00	04
	14.	Plant protection Measures in Rabi Crop	01	off	15	00	15	3	00	03
	15.	Scientific cultivation of tomato	01	off	23	00	23	3	00	03
Soil Science	16.	Micronutrient management in Papaya	01	Off	14	-	14	-	-	-

17.	Integrated crop management in chickpea crop	01	Off	9	1	10	-	1	1
18.	Integrated nutrient management in lentil crop	01	Off	25	5	30	-	-	-
19.	Irrigation and fertilizer management in mustard crop	01	Off	13	7	20	-	2	2
20.	Use of fertilizer according to soil health card	01	off	33	22	55	03	06	09
21.	Cultivation of green gram	01	off	10	10	20	-	-	-
22.	Cultivation of green gram	01	off	15	03	18	01	-	01
23.	Cultivation of green gram	01	off	11	-	11	-	-	-
24.	Soil testing and use of sesbania in rice field	01	Off	08	00	08	-	-	-
25.	INM through Sesbania	01	Online	8	0	8	1	0	01
26.	Agriculture production system and suitable cropping system at present agro- ecological situation	01	Off	26	04	30	06	00	06
27.	Compost & vermin- compost preparation and production	01	Off	40	00	40	00	00	00
28.	Soil testing	01	off	12	01	13	00	00	00
29.	INM in Rice crop	01	off	10	00	10	01	00	01
30.	Vermicomposti ng and its uses	01	off	15	00	15	03	00	03
31.	INM in mustard crop.	01	OFF	19	01	20	01	00	01

I				1	T	1			1	
	32.	INM in mustard crop.	01	OFF	17	01	18	01	00	01
	33.	INM in mustard crop	01	On	18	00	18	05	00	00
	34.	INM in mustard crop	01	On	10	00	10	00	00	00
	35.	INM in mustard crop	01	On	11	01	12	00	00	00
	36.	INM in Chickpea.	01	On	07	02	09	00	00	00
	37.	Use of bio- fertilizer in Chickpea	01	ON	19	00	19	02	00	02
	38.	Soil test and fertilizer manageme nt	01	OFF	18	04	22	00	00	00
	39.	Scientific cultivation of chickpea and fertilizer manageme nt	01	OFF	16	00	16	02	00	00
	40.	INM in wheat crop	01	off	22	-	22	02	-	02
	41.	INM in wheat crop	01	off	25	-	25	04	-	04
	42.	Integrated nutrient manageme nt in wheat crop through bio- fertilizer	01	off	13	02	15	3	-	03
Agricult ure Engineer	43.	Importance and effect of Grubber in mustard /vegetable	01	Off	11	-	11	-	-	-

44.									02
	Agricultura								
	l advisory								
	based								
	gramin	01	Off	04	08	12	02	00	
	krishi								
	mausam								
	sewa for								
	farmer								
45.	. .								02
	Importance								
	of micro-								
	irrigation	01	Off	04	08	12	02	00	
	IOF different								
	aniland								
	son and								
46	Krishi								_
40.	Mausam	01	off	10	10	20	_	_	-
	Seva	01	011	10	10	20	-	-	
47	Krishi								01
17.	Mausam	01	off	15	03	18	01	-	01
	Seva	01	011	10	00	10	01		
48.	Krishi								-
	Mausam	01	off	11	-	11	-	-	
	Seva								
49.	Importance								02
	of Micro-								
	irrigation in	01	Online	16	00	16	02	00	
	Vegetable								
	Crop								
50.	Use of								02
	solar								
	energy in								
	agricultural	01	Online	13	0	13	2	0	
	& it's care	01	omine	10	Ŭ	10	-	Ŭ	
	and								
	maintenanc								
51	e V-ichi								00
51.	Krishi Managara								02
	Nausam	01	Off	10	00	10	02	00	
	Seva (A gromat	01		10	00	10	02	00	
	(Agronnet Advisory)								
	Auvisory)								

	52.	Promotion of farm equipment and agromet advisory	01	Off	16	02	18	02	00	02
	53.	Importance of organic and inorganic mulching material and CRA	01	Off	33	00	33	05	00	05
	54.	Drip irrigation system for vegetable crops	01	off	12	09	21	00	00	00
	55.	Line sowing of wheat with Zero till seed drill cum fertilizer machine & seed and Happy seeder	01	OFF	34	00	34	02	00	02
	56.	Irrigation in wheat crop	01	off	25	0	25	4	0	04
	57.	Zero tillage in Rabi crop	01	off	15	0	15	3	0	03
	58.	Wheat and Rabi crop in weed control by grabber	01	off	23	0	23	03	0	03
1. Crop Protect ion	59.	IPM in papaya	01	off	14	-	14	-	-	-
2. Home Science	60.	Method of Aonla preservatio n	01	off	09	04	13	00	04	04
	61.	Drying of	01	off	19	01	20	01	01	01

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	leafy vegetable								
62.	Mushroom Production	01	off	24	03	27	04	00	04
63.	Method of fruits preservatio n	01	off	15	03	18	01	-	01
64.	Method of vegetable preservatio n	01	off	11	-	11	-	-	-
65.	Importance of supplement ary foods and its preparation	01	Off	00	12	12	00	02	02
66.	Value added products of mushroom	01	Online	05	05	10	00	01	01
67.	Milky mushroom cultivation	01	Online	6	6	12	2	3	05
68.	Online training programme on mushroom production	01	Online	6	6	12	02	00	02
69.	Nutritional importance of cheap & locally available foods	01	Online	9	23	32	00	00	00
70.	Importance & lay out of kitchen gardening	01	On	00	05	05	00	01	01
71.	Importance & lay out of kitchen gardening	01	On	00	07	07	00	03	03
72.	Importance of supplement	01	Off	19	19	38	02	07	09

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	I		1	1	1	1	1	1		1
		ary foods,								
		1ts								
		preparation								
		balancad								
		diat								
	72	Importance								01
	75.	of								01
		supplement								
		ary foods &	01	on	00	17	17	00	01	
		its								
		preparation								
	74.	Importance								01
		of								
		supplement	01	0.7	00	17	17	00	01	
		ary foods &	01			1/	1/	00	01	
		its								
		preparation								
	75.	Storage of		0.00	0.6		•			04
		grains &	01	Off	09	11	20	02	02	
	76	seeds								00
	/6.	Ways to								00
		minimizes	01	on	00	10	10	00	00	
		soluble	01	OII	00	19	19	00	00	
		vitamin								
	77.	Ways to								01
	, , .	minimize								01
		water	01	OFF	12	00	12	01	00	
		soluble								
		vitamins								
	78.	Safe								03
		storage of								
		seeds in	01	OFF	00	19	19	00	03	
		hermetic								
		bag			 					
	79.	Value								04
		addition of	01	off	25	-	25	04	00	
		ITUILS &								
	Rural	vegetables								
	Youth									
1. Home	80.	Ovster								05
Science		mushroom	02	off	15	13	28	05	00	
		production								
	81.	Oyster								2
		mushroom	02	off	4	17	21	2	-	
		production								
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	82.	Mushroom production	07	on	16	01	17	00	00	00
	83.	Balance diet for different age group.	01	on	35	-	35	-	4	04
	84.	Mushroom production	03	On	16	19	35	4	1	05
	85.	Mushroom production	03	On	28	7	35	11	01	12
	86.	Oyster mushroom cultivation	03	on	19	10	29	01	00	01
	87.	Oyster mushroom cultivation	03	on	23	06	29	01	00	01
	88.	Lac bangle making	03	on	-	20	20	00	1	01
	89.	Mushroom production	03	on	18	11	29	00	02	02
2. Soil Science	90.	Vermicomp ost production technique	05	on	10	9	19	01	-	01
	91.	Vermicomp ost production technique	03	On	35	00	35	21	00	21
	92.	Vermicomp ost production technique	03	On	35	00	35	22	00	22
	93.	Vermicomp ost production technology	03	on	21	01	22	03	00	03
	94.	Vermicomp ost production technology	03	on	23	02	25	12	02	14
Agricultu re Engineer	95.	Maintenance of Agriculture machineries	05	on	16	-	16	04	-	04
	96.	Care and maintenance of micro-	03	On	11	08	19	08	0	08

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		irrigation system								
	97.	Installational maintenance of micro irrigation unit	03	on	10	5	15	1	1	02
4. Horticultu re	98.	Vegetable production	03	On	0	35	35	0	16	16
	Extension Functiona ries									
Crop productio n										
Agronom y	99	Control and Management of Dessert Locust	01	Mushar i	20	10	30	02	02	04
	100	Control and Management of Dessert Locust	01	Mushar i	20	10	30	02	02	04
	101	Biofortified grain production	01	On	00	30	30	00	02	02
	102	Biofortified grain production	01	On	00	30	30	00	06	06
	103	Bio fortified varieties and kisan act	01	ON	35	05	40	07	00	07
Home Science	104	Balance diet for different age groups	01	On	00	30	30	00	02	02
	105	Cheap & locally available nutrient rich foods	01	On	00	30	30	00	06	06
Agril Engg	106	GKMS	01	on	26	1	27	4	00	04
	107	GKMS	01	on	35	5	40	7	0	07

108	Advisory in Ag.	01	on	44	4	48	10	1	11
109	Importance role of weather	01	on	25	2	27	6	0	06

H) Vocational training programmers for Rural Youth

Details of training programmes for Rural Youth

	Identifie d Thrust Area			No. o	f Partici	pants	Self-e traini	mployed ing	after	Number
Crop / Enterpris e		Trainin g title*	Duratio n (days)	Mal e	Femal e	Tota 1	Typ e of unit s	Numbe r of units	Number of persons employe d	or persons employe d else where
Organic grower	Organic Farming	Organic grower	30	15	05	20	2	2	2	-
Micro irrigation technician	Water efficienc y	Micro irrigatio n technicia n	30	19	01	20	1	3	3	-

*training title should specify the major technology /skill transferred

I) Sponsored Training Programmes

		These		Dur	Clien t	No.	No.	of P	arti	cipant	ts						Spons
S	Titlo	1 nema tic	Mon	atto			Male	ę		Fem	ale		Tota	l			oring
I. III 1 Org	THE	area	th	n (day s)	PF/R Y/EF	rse s	Ot her s	S C	S T	Ot her s	S C	S T	Ot her s	S C	S T	To tal	Agen cy
1	Organic grower	Organic grower	Jan- Feb	30	RY	01	11	0 5	0 0	04	0 0	0 0	15	0 5	0 0	20	ASCI
2	Micro irrigatio n technici an	Micro irrigatio n technici an	Jan- Feb	30	RY	01	19	0 1	0 0	00	0 0	0 0	19	0 1	0 0	20	ASCI

3.	Care and mainte nance of farm machin ery and implem ents	Farm machin ery	Septe mber	03	PF &RY	01	08	2 5	0 0	00	0 2	0 0	08	2 7	0 0	35	GKR A
4	Organi c farmin g	Organi c farmin g	Septe mber	03	PF & RY	01	04	3 1	0 0	00	0 0	0 0	04	3 1	0 0	35	GKR A
	Mushr oom product ion	Mushr oom product ion	July	03	PF& RY	02	29	1 5	0 0	24	0 2	0 0	53	1 7	0 0	70	GKR A
	Vegeta ble product ion	Vegeta ble product ion	July	03	PF& RY	01	00	1 9	0 0	00	1 6	0 0	00	3 5	0 0	35	GKR A
	Vermic ompost	Vermic ompost	Augu st	03	PF& RY	02	27	4 3	0 0	00	0 0	0 0	27	4 3	0 0	70	GKR A
	Goat rearing	Goat rearing	Augu st	03	PF& RY	01	24	0 8	0 0	03	0 0	0 0	27	0 8	0 0	35	GKR A
5		Import annce Of Biodiv ersity	Octo ber	04	EF	02	31	1 5	0 0	04	0 0	0 0	35	1 5	0 0	50	Dept of Agric ulture, Gov. of Bihar
6	Oyster mushro om	Mushr oom product ion	Octo ber	01	PF	01	05	0 0	0 0	05	0 1	0 0	10	0 1	0 0	11	World Visio n, Muzaf farpur
7	Oyster mushro om	Mushr oom product ion	Octo ber	01	PF	01	05	0 1	0 0	06	0 1	0 0	11	0 2	0 0	13	World Visio n, Muzaf farpur

			Far	mers		Exter	nsion Off	icials		Total	
Nature of Extension Activity	No. of activities	М	F	Т	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	11	164	36	200	18	4	3	7	168	39	207
Kisan Mela	1	55	15	70	10	5	3	8	60	18	78
Kisan Ghosthi	7	254	248	502	22.70	5	3	8	259	251	510
Exhibition	3	53	16	69	19.48	4	4	8	57	20	77
Film Show	15	89	30	119	10	5	6	11	94	36	130
Method Demonstrations	10	102	80	182	6	4	3	7	106	83	189
Farmers Seminar	3	33	74	107	23.7	5	2	7	38	76	114
Workshop	1	34	38	72	16.66	4	20	24	38	58	96
Group meetings Lectures delivered as resource persons	21	355	212	567	5.05	18	12	30	373	224	597
Advisory Services	1165	1159	159	1313	15.06	79	67	146	1238	221	1459
Scientific visit to farmers field	420	459	64	523	5.14	38	32	70	497	96	593
Farmers visit to KVK	667	590	72	662	4.09	38	33	71	628	105	733
Diagnostic visits	78	110	18	128	9	3	2	5	113	20	133
Exposure visits	4	135	38	173	10.52	9	8	17	144	46	190
Ex-trainees Sammelan	3	66	5	71	11.53	4	3	7	70	8	78
Soil health Camp	1	33	22	55	9	9	1	10	42	23	65
Animal Health Camp											
Agri mobile clinic											
Soil test											
campaigns											
Farm Science Club Conveners											
meet											
Self Help Group Conveners meetings											

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

Mahila Mandals											
Conveners											
meetings											
Special											
Programmes											
(specify)											
Sankalp Se											
Siddhi											
Swatchta Hi											
Sewa											
Any Other											
(Specify)Mobile	6653	17335	1533	18868	10	47	40	87	17382	1573	18955
Service											
Total	9063	21026	2660	23681		281	242	523	21307	2897	24204

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	40
Radio talks	-
TV talks	03
Popular articles	21
Extension Literature	02
Other, if any(Technical report)	10

C. Celebration of important days

		Farmers				Extension Officials			Total		
Celebration of Important Days	No. of activities	Μ	F	Total	SC/ ST (% of total)	Μ	F	Total	Μ	F	Total
Republic day (26 th Jan.)	1	17	8	25	11.11	0	2	2	17	10	27
International Women's Day (8 th Mar.)	1	5	49	54	16.21	0	20	20	5	69	74
Ambedkar Jayanti (14 th Apr.)					0						
International Yoga Day (21st Jun.)	01	7	3	10	13.33	02	03	05	09	06	15
Independence Day (15 th Aug.)	01	10	02	12	12.01	05	02	07	15	04	19
Parthenium Awareness Week (16 th to 22 nd Aug.)	2	11	04	15	9.20	09	04	13	20	08	28
Hindi Diwas (14 th Sep.)											
Gandhi Jayanti (2 nd Oct.)	03	24	71	95	18.69	7	5	12	31	76	107
Mahila Kisan Diwas (15 th Oct.)	1	0	19	19	10.00	0	1	20	0	20	20
World Food Day (16 th Oct.)	1	10	02	10	10.00	05	03	08	15	05	20
Vigilance Awareness Week (27 th	1	12	4	16	11.11	1	1	2	13	5	18

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Oct. to 2 nd Nov.)											
National Unity Day (31st Oct.)											
World Science Day (10 th Nov.)											
National Education Day (11 th											
Nov.)											
National Constitution Day (26 th	01	18	03	21	12.20	05	02	07	23	05	28
Nov.)	01	10	05	21		05	02	07	23	05	
World Soil Day (5 th Dec.)	1	18	31	49	15.93	2	1	3	20	32	52
Kisan Diwas (23 rd Dec.)	1	98	22	125	18.93	8	4	12	106	26	132
National Cansumer Day	1	32	02	34	17.07	4	3	7	36	5	41
Poshan Mah	3	32	25	57	15.92	0	100	100	32	125	157
Soil Health card day	1	33	22	55	23.00	4	6	10	37	28	65

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

	Date of	Name of	Interaction of	Participants					
SI.	event	Event/Programme	Hon'ble PM/AM	Farmers	Staffs	VIP/Others	Total		
1.	25.12.2020	Man ki Baat		116	10	0	126		

3.5.a. Production and supply of Technological products

Village seed

Сгор	Crop Variety Quantity of Value		No. of farmers involved in village	Number of farmers to whom seed provided				
	- seed (q)	(13)	seed production	SC	ST	Othe r	Tota l	
Total								

KVK farm

Сгор	Variety	Quantity of seed	Value	Number of farmers to whom seed provided				
		(q)	q) (RS)	SC	ST	Other	Total	
Wheat	HD2967	75.20	33750.00	30	3	120	153	
RAI	R.Sufalam	13.50	135000.0	50	10	150	210	
			0					
Grand Total		88.7	168750	80	13	270	363	

Production of planting materials by the KVKs

Cron	Variaty	No. of planting	Value	Number of farmers
Стор	variety	materials	(R s)	to whom planting material

					pro	vided	
				SC	ST	Other	Total
Vegetable seedlings							
Cauliflower							
Cabbage							
Tomato							
Brinjal							
Chilli							
Onion							
Bottle Gourd	Navin	70	250.00	10	1	50	70
Bitter Gourd	Baron	70	350.00	10	1	59	70
Fruits							
Mango							
Guava	Allahabad Safeda	140	2000.00	5	0	35	40
Lime							
Papaya							
Banana							
Others							
Ornamental plants							
Medicinal and							
Aromatic							
Plantation							
Spices							
Turmeric							
Tuber							
Elephant yams							
Fodder crop saplings							
Forest Species							
Others, pl.specify							
Total		210	2350	15	1	94	110

Production of Bio-Products

	Quantity		1	No. of 1	Farme	rs
Name of product	Kg	Value (Rs.)		bene	fitted	
			SC	ST	Other	Total
Bio-fertilizers						
Bio-pesticide						
Bio-fungicide						
Bio-agents						
Others, please specify.						
Total						

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted
	biccu			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				

Production of livestock materials

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

			Production (q)			
Season	Сгор	Variety	Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2020						
Rabi 2020						
Summer/Sprin g 2020						

iii) Financial Progress

Fund received	Expenditure (Rs. In lakhs)	Unspent	Remarks
(2016-17, 2017-18 and 2019, 2020)	Infrastructure	Revolving fund	balance (Rs. In lakhs)	
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	Circu lation
Research	Productivity and sustainable	Kamlesh Kumar Singh	International J. of	Many
paper	soil health management of	Anupma Kumari	current microbiology	
	potato (solanum tuberosum	Anupam Adarsh	and applied	
	L) filed as inthieneed by		sciences(2020) volume	
	bio-fertilizer.		9(1):1700-1705	
	Intelligent vulnerability	Deepak Agnihotri,	Environment,	Many
	prediction of soil	Tarun Kumar,	Development and	
	erosion hazard in semi-arid	Dalchand Jhariya	Sustainability ()	
	and humid region		https://doi.org/10.1007/	
			<u>s10668-020-00685-2</u>	
	Against Phomo Psis blight	A.Kumar	Int. Curr. Microbiot.	Many
	in Brinjal	R. Kumar	APP. Sci(2020)	

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		Mansor S. Akhtar	Screening	
		A Adarsh	Scieening	
		V Kumar		
	Storage duration button	V Kullai	The phorme Innovation	Monu
	Storage duration button			wiany
	mushroom in different	Anupma Kumari	20209(7):290-293	
	packaging condition,	Anupam Adarsh		
		Kumari Sunita		
		Hemchandra Choudhary		
	Assessment of different bio-	R.P Prasad	International journal of	
	pesticides for management	R.K. Mandal	current microbiology	
	of fruit borer in Tomato	savita kumari	and applied sciences	
	(Lycopersicon esculantum		Volume – 9 no. 8	
	L.)		(2020) pg no.	
Seminar/co	Assessment of low cost	Tarun Kumar*, Anupma	International Web	
nference/	filter material for Roofton	Kumari, and Amar Kant	Conference	
symposia	Rainwater Harvesting	Gautam	Perspective on	
papers	Structure		Agricultural and	
L.L.			Applied Sciences in	
			COVID-19 Scenario	
			(PAAS-2020)	
	AgroMet advisories for safe	Tarun Kumar and	Effect of COVID 19	
	harvesting and storage of	Anupmo Kumori	Pandamia on	
	Rahi grong in advarge	Anupina Kuman	A grigultural and Alliad	
	Rabi crops in adverse		Agricultural and Allied	
	weather and lockdown		Science	
	period in Muzaffarpur		(ECPAAS-2020)	
	district			
	International E- conference			
	on effect of covid-19,			
	Pandamic on Agriculture			
	and applied Science, August			
	2020			
	The immune system of	Savita kumari	Effect of COVID-19	
	economically & socially		Pandemic on	
	backward sector of children		Agricultural and Allied	
	was improved with cheap &		Science	
	locally gram quality protein		(ECPAAS-2020)	
	based supplementary foods.			
	Best management practice			
	conducted by KVK			
	Muzaffarpur during			
	lockdown period of Covid-			
	19, during international e –			
	conference ECPAAS- 2020			
	Multitier cropping system	Anupam Adarsh	International web	
	for sustainable management	Anupma Kumari	conference on	
	of land	Savita 140racti	biodiversity in	
		Kamlash Kr Singh	vagetable aron for	
		Kannesh Ki, Singh	healthier life and	
			nearmer me and	
VDICHI VICVANI	VENIDA SADAIVA MUZAEEADDUD DIU	٨P		

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			livelihood
	Role of Zinc in vegetable crop production	Kamlesh Kr. Singh Anupam Adarsh	International web conference on
		Sunita Kumari	biodiversity in
		A.K.Singh	vegetable crop for
		5.5.Solankey	livelihood
	Evaluation of soil fertility	Dr. Kamlesh Kumar	e- poster of Olympiad
	status of Gaighat block of	Singh	during world soil day
	Muzaffarpur District of	Dr. Arvind kumar Singh	celebration 2020 by
	Bihar	Dr. Anupam Adarsh Dr. Supita Kumari	BAU Sabour Bhagalpur
		Dr. Anunma kumari	
	Effect of bio fertilizer in	Dr. Kamlesh Kumar	Webinar e-compodium
	sustainable soil health	Singh	on recent advances in
	management and production	Dr. Anupma kumara	soil micro biological
	of wheat(T. sestivum L)	Dr. Anupam Adarsh	research with a special
		Dr. Sunita Kumari	thrust to bio-fertilizer
		Dr. Arvind Kumar Singh	Sabour Bhagalpur
Webinar	Exploration of	Savita kumari	
attended	Underutilized Fruit Crops		
	for Health and Nutritional		
	Security for Future		
	Generation		Dihan Agrigultural
	of Agricultural Sector in		University Sabour
	Resilience of Indian		25 sept. 2020
	Economy amid COVID 19 Pandemic		1
	Efficient Tools for Effective		World food
	Research Communication		preservation centre
	and Publications		June 12 to 14, 2020
	Agri-Planning for Disaster		Dr. Rajendra Prasad
	19		University, Pusa
			&
			Agrivision
			held on 6 th August 2020
	International webinar on	Kamlesh kumar singh	Centre for advance
	in Agriculture through		change DRPCALL Puse
	agrometerology and other		Samastipur from 15-17
	technological intervations		December, 2020
	Soils ,biomes and resilience	Dr. Kamlesh Kumar	Soil conservation
	to climate change	Singh	society of India from 4-
			5 December 2020
	Exploration of	Dr. Kamlesh Kumar	University of

Underutilized Fruit Crops for Health and Nutritional Security for Future Generation	Singh	Horticultural Sciences, Bagalkot 10 th September 2020
Modern technology of open field flower production	Dr. Kamlesh Kumar Singh	Department of horticulture, horticulture training institute vchani karnal, Haryana
World milk day 2020	Dr. Kamlesh Kumar Singh	School of Agricultural Sciences , Dr. K.N. Modi university , Tonk Rajasthan on 2020 June 01
National webinar on Agri- Planning for Disaster time : Floods and COVID-19	Dr. Kamlesh Kumar Singh	DRPCAU,PUSA & Agrivision on August 06, 2020
National webinar on opportunities of commercial exploitation of exotic fruits	Dr. Kamlesh Kumar Singh	By BAU Sabour Bhagalpur on 4 th July 2020
National webinar on Strategy for strengthening Agricultural Education under changing scenario of COVID-19	Dr. Kamlesh Kumar Singh	World Bank – ICAR funded NAHEP by Swami Keshwanand Rajasthan from 26-27 July 2020
National webinar on COVID-19 and Indian Agriculture : Challenges and opportunities	Dr. Kamlesh Kumar Singh	Faculty of Agriculture Uday Pratap College(An autonomous Institution), Varavasi and MGKVP, Varanasi on 9 th June 2020
Efficient Tools for Effective Research Communication and Publications		Worldfoodpreservation centreJune 12 to 14, 2020
International Webinar on Crop protection Biotechnological Initiatives for improvement of Pulse crop		5 th -6 th August 2020 7 th August 2020
Formation and Effective functioning of FPO Geospatial Approaches for	Dr. Anupma Kumari	ICAR- RCER, Patna dt. 18.09.2020 7 th October 2020
AgricultureWaterManagementA decade of conservationAgriculture in Eastern India,Opprtunity and challenges		
Mr. Hem. Chandrar. Dr. Savita Kumari Dr. Tarun Kumar KVK, Saraiya, pp100 100 Bulletins Fall Army Worm Dr. Anupma Kumari Dr. KVK, Saraiya volume 3 500 News letter Kisan Samachar Dr. Anupma Kumari Dr. April to June 2020 pp.4 1000 News letter Kisan Samachar Dr. Anupma kumara Dr. April to June 2020 pp.4 1000 News letter Kisan Samachar Dr. Anupma kumara Dr. April to June 2020 pp.4 1000 News letter Kisan Samachar Dr. Anupma kumara Dr. April to June 2020 pp.4 1000 Mit Hem. Chandrash Dr. Anupma kumara July to September 2020 pp.4 Popular Muzaffarpur District Dr.		

Image: Chaudhary Dr. Savita Kumari Dr. Tarun KumarKVK, Saraiya, pp100Micro irrigation systemDr. Tarun Kumar Dr. Tarun Kumar Dr. Anupma KumariKVK, Saraiya, pp100BulletinsFall Army WormHC Chaudhary & Dr. Anupma KumariKVK, Saraiya pp.4News letterKisan SamacharDr. Anupma 143racti Dr. Savita Kumari Dr. Kamlesh Kumar Singh Dr. Tarun Kumar Dr. Anupma KumariKVK, Saraiya volume 3 April to June 2020 pp.4News letterKisan SamacharDr. Anupma Hafaracti Dr. Savita Kumari Dr. Anuupam AdarshKVK, Saraiya volume 4 April to June 2020 pp.4News letterKisan SamacharDr. Anupma kumara Dr. Anuupam AdarshKVK, Saraiya volume 4 July to September 2020 pp.4Popular ArticlesWeather forecasting of Muzaffarpur DistrictDr. Tarun Kumar Dr. Tarun Kumar Dr. Tarun Kumar Dr. Anuupam Adarsh1000Live Solution of Agriculture Problem to farmerDr. Tarun Kumar Dr. Tarun Kumar1000Winaskari gajar ghas se compost bananaAnupma Kumari Savita Kumari Hem Chandra Chaudhary Hem Chandra Chaudhary Hem Chandra ChaudharySavita Kumari Savita Kumari Savita Kumari Savita Kumari Manpma Kumari Savita Kumari Savita Kumari Manpma Kumari Savita Kumari Manpma Kumari Savita Kumari Anupma Kumari Savita Kumari Manpma Kumari Savita Kumari Manpma Kumara Savita Kumari Manpma Kumara Manpma Kumara Manpma KumaraKrishi Manjusha krishi Savita Kumari Manpma Kumara Manpma Kumara Manpma KumaraMartif Higeri Horq Rit Higeri Horq Rith<		
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Fall Army WormAnupma KumariKuku PrilNews letterKisan SamacharDr. Anupma 143racti Dr. Savita Kumari Dr. Kamlesh Kumar Singh Dr. Tarun Kumar Dr. Anuupam AdarshKVK, Saraiya volume 3 April to June 2020 pp.4Kisan SamacharDr. Anupma kumara Dr. Anuupam AdarshKVK, Saraiya volume 4 July to September 2020 pp.4VinaskariDr. Anupma kumara Dr. Kamlesh Kumar Singh Dr. Tarun Kumar Dr. Kamlesh Kumar Singh Dr. Tarun KumarI000PopularWeather forecasting of Muzaffarpur DistrictDr. Tarun Kumar Dr. Tarun KumarI000Live Solution of Agriculture problem to farmerDr. Tarun Kumar Dr. Tarun Kumar1000Vinaskari gajar ghas se compost bananaAnupma Kumari Savita Kumari Anupma KumariSmarika kisan mela 2020 DRPCAU, PusaDalhani faslon ka poshak mahatva avm prasankaran aSavita Kumari Anupma Kumari Anupma Kumari Dr Anupma kumara Dalhani faşlon ka poshak mahatva avm prasankaranSavita Kumari Anupma Kumari Dr Anupma kumaraKrishi Manjusha krishi Sanskaran 03, Ank - 01धाल की सीधी बुलाई में खरपालार नेरांत्रणDr Anupma kumara Dr Anupma kumaraKisan Samachar(April to June 2020)गैलाईिवा की चैज्ञानिक खेली पालाई को दी जागरDr Anupma kumara Dr Anupma kumaraKisan Samachar(April to June 2020)		
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ड्रम सीडर से धान बुवाई करनें में Dr. Tarun Kumar Kisan Samachar(April		
कम लागत में ज्यादा मुनाफा Dr Anupma kumara to June 2020)		
खेती 143तंबज निकासी का महत्व Dr. Tarun Kumar Kisan Samachar(July		
Dr Anupma kumara to September 2020)		
ब्रसात के समय कृषि यंत्रों की Dr. Tarun Kumar Kisan Samachar(July		
देखभाल और उनका रखरखाव Dr Anupma kumara to September 2020)		

KRISHI VIGYAN KENDRA, SARAIYA MUZAFFARPUR BIHAR (Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar) Page **143** of **190**

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	एकीकृत पोषक तत्व प्रबंधन से चावल की गुणवत्ता में सुधार	Kamlesh kumar Singh	Kisan Samachar(July to September 2020)	
	जुलाई महीनें में तैयार होने वाले परिरक्षित उत्पाद	Dr. Savita Kumari Dr. Anupam Adarsh	Kisan Samachar(July to September 2020)	
	भोजन मे खाद्य समूह	Dr. Savita Kumari Dr Anupma 144racti	Kisan Samachar(July to September 2020)	
	फसलों में बोरान की कमी के लक्षण एवं निदान	Dr. Kamlesh Kumar Singh Dr. Rajeev Kumar Srivastav Dr. Rajeev Singh Dr. S.S. Solenkey	Krishak Sandesh volume 11. October 2020 KVK Manpur, BAU Sabour	
	सब्जी फसलों में जैव उर्वरकों की महत्ता	Dr. S.S. Solenkey Dr. B.B. Jha Dr. H.K. Singh Dr. Kamlesh Kumar Singh	Krishak Sandesh volume 6. Nov 20 KVK Manpur, BAU Sabour	
	फसलों में पोटाश की कमी एवं निदान	Dr. Kamlesh Kumar Singh Dr. Anupam Adarsh Dr. S.S. Solenkey	Mrida Sandesh Mela Veshwshank 2020 , DRPCAU , Pusa	
	फसलों में पोटाश का महत्व	Dr. Kamlesh Kumar Singh Dr. Anupam Adarsh Dr. S.S. Solenkey	Krishak Sandesh, BAU Sabour	
	वर्मी कम्पोस्टः जैविक खेती के लिए वरदान	Dr. Kamlesh Kumar Singh Dr. Anupam Adarsh Dr. Rajan Kumar Dr. S.S. Solenkey	Aadhunik Kisan(Kisan Mela Veshwshank) Jan- Feb 2020, DRPCAU , Pusa	
Book Chapter	Recent advances for enhancing nutrient use efficiency in crop production	Dr. Sunita Kumari, Dr. Geeta Kumari Dr. Ragini Kumari Dr. Kamlesh Kumar Singh Dr. Prakash Gautam	, Agriculture development and economic transformation in Globe scenario pp84-90	
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	Multitier cropping system for sustainable management of land	Anupam Adarsh Anupma 144racti Savita Kumari and	ProceedingcumAbstractbookPublishedbyBAU,	

		K.K. Singh	Sabour, ISBN No. 978-	
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Extension Pamphlets/ literature	AgroMet advisories helped farmers for safe harvesting during lockdown period. (May 2020, New Delhi)	Tarun Kumar	Indian Council of Agricultural Research Division of Agricultural Extension, KAB-1, Pusa, New Delhi-110 012	
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	Zonal KVK Award – 2020	Dr. Anupma Kumari and Dr. Savita Kumari	KVK Saraiya, Muzaffarpur	07
	Innovative Farmers Award 2020	Savita Kumari,Tarun kumar, Anupam Adarsh and Suman Kumar	KVK Saraiya, Muzaffarpur	01
	QRT report from 2019-20	Anupama Kumari Savita Kumari, H.C. Choudhary 145racti rawat and Tarun kumar	KVK Saraiya, Muzaffarpur	
	Technology inventory of KVK, Saraiya (2013-18)	Anupama Kumari Savita Kumari, H.C. Choudhary K.K. Singh, 145racti rawat and Tarun kumar	KVK Saraiya, Muzaffarpur	01
Electronic Publicatio n (CD/DVD etc)	Organic Mataka Khad मटका खाद	Dr. Anupma Kumari and Dr. Tarun kumar	KVK Saraiya, Muzaffarpur (<u>https://www.youtube.c</u> <u>om/watch?v=GHFIFI9g</u> <u>TI&ab_channel=Krish</u>	01

					iVigyanKendraSara %2CMuzaffarpur)	aiya	
	Vermicompost केंचुवा खाद बनाने की विधि	Dr. Tarun K.K. Singh	Kumar	and	KVK Sar Muzaffarpur (https://www.youtu om/watch?v=kqsy2 EcD4&ab_channels shiVigyanKendraS a%2CMuzaffarpur)	raiya, <u>ıbe.c</u> 2 <u>g-</u> =Kri araiy)	01
TOTAL	46						6091

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.	Name of	Name of course	Name of	KVK	Date and	Organized
No.	programme		personnel	and	Duration	by
			designation			
1.	Online Training	Remote sensing in	Dr. Kamlesh	Kumar	19 May to 9	Institute of
		crop monitoring	Singh		June 2020	remote
		and assessment	SMS, Soil Scien	nce		sensing
						(IIRS),ISRO
2.						
3.						
4.						

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	Smt. Rekha Devi
Address	Manikpur, Saraiya, Muzaffarpur
Contact details (Phone, mobile, email	7654652707
Id)	
Landholding (in ha.)	1.5 Acre on lease
Name and description of the farm/	Lac Bangle Making
enterprise	
Economic impact	As I was a landless farmer and previously earn through production of
	cereals and pulses in leased land. In the leisure season I worked as
	Agriculture labour and involve in selling of fishes. In 2016 I got training
	in lac bangle making from KVK, Saraiya and started to make lac bangle
	in addition of my previous work. In 2016 I earned Rs. 27100.00 from
	farm produce, Rs. 60,000.00 from agricultural activities as labour,
	40,000.00 from selling of fish and 60,000.00 from selling of bangles.
	From 2017 my main focus of earning was through lac bangle selling so
	I decided to spent more time in bangle making . In 2019 I formed an
	informal group of interested women and start production of lac bangle
	in large scale and sell it in 146ract market through own shop. In such
	way I earned Rs. 200000.00 from lac bangle, Rs. 51870.00 from farm
	produce, 30,000.00 from selling of fish. In such way my annual income

increased from Rs. 1.87 lac in year 2016 to Rs. 2.818 lac in 2019-20.		
Now I have not to wander in search of work		
I am also working as master trainer in KVK, Saraiya and other NGOs. I		
also provide training to those women who want to initiate lac bangle		
marketing. During training process I introduced myself as Agriculture		
labour and also share my story. So many illiterate poor women also		
encouraged and five of them started their work in Rupaulli, Manikpur		
and Basochak village		
Lac bangle can reused after melting so it is ecofriendly		
Five women engaged in this enterprise.		

Name of farmer	Rakesh Kumar		
Address	Dwarikanathpur, Saraiya, Muzaffarpur (Bihar)		
Contact details (Phone, mobile, email Id)	9431441605		
Landholding (in ha.)	4.5 Acre		
Name and description of the farm/ enterprise	Integrated Fish Farming.		
Economic impact	Cereal crops and Horticultural crops are the major income generating activities conducted during the last five years. During last three years since 2017-18, Fishery, Mushroom Cultivation and Multitier Vegetable Cropping and Capsicum or Seedless cucumber cultivation in polyhouse are major source of income. After undergoing the training in KVK, Saraiya and adopting the recent technologies in Integrated farming System and Organic Farming. As a result my source of income increased from other entrepreneurial activities like fishery,Mushroom,Multitier vegetable and protected cultivation of vegetables increases the production and increases the B:C ratio to 12:20,8.08 and 4.24, Apart from it I have been also started raising planting material of horticultural crops. In 2019-20 total of 2500-3500 planting material is produced and getting net income from 0.5 lakhs.		
Social impact	After attaining success in Integrated farming System, Protected cultivation and Mushroom Cultivation local farmers have developed their keen interest in this enterprise. They are visiting regularly to his demonstration farm seeking queries. Farmers are also trained in agriculture regarding recent and improved technologies of farming. I have also got training from different agricultural organization and playing a major role in capacity building programme. After my breakthrough in this enterprise, new enterprise of duckery, Multitier Vegetable cropping have been introduced for improving the availability and profitability of the enterprise.		
Environmental impact	Due to IFS model there is recycling of Agricultural waste in farming.		
Horizontal/ Vertical spread	By eatablishing demonstration unit at his farm many farmers inspired by him.		
Name of farmer	Vijay Shankar Kumar Raman		
Address	BAKHRA, SARAIYA, PIN: 843101		

	District: Muzaffarpur (Bihar)		
Contact details (Phone, mobile, email Id)	9939883194		
Landholding (in ha.)	6 Acre		
Name and description of the farm/ enterprise	Poultry and forestry		
Economic impact	Poultry and agroforestry are the major income generating activities conducted during the last five years. In the initial years, of poultry farming 800-850gm of bird was produced. After undergoing the training in KVK, Saraiya and adopting the recent technologies in poultry farming such feed management and disease management under the guidance of scientists enhanced the production to 1.75kg/ bird. As a result the production increased to from 1040 q from 15820 sqft areas, while the increase in B: C ratio 1.31 to 1.98. Agroforestry is another enterprise that involves the production of plantation material of Popular, Mohagini and Gamhar after obtaining training from Vaniki Anushandhan Evam Prasar Kendra, Patna in 2007. I was awarded Santavana award for best popular nursery under Mukhyamantri Niji Paudhshala Yojana. A total of 3000-4000 planting material is produced and getting net income from 2.7-3.0 lakh annually.		
Social impact	After attaining success in poultry farming, local farmers have developed their keen interest in this enterprise. They are visiting regularly to this demonstration farm seeking queries, while farmers are also trained in feed management and disease management to 148racticing farmers. I am also training farmers as master trainer at KVK, Saraiya and playing a major role in capacity building programme. After my breakthrough in this enterprise, 7 new poultry enterprise have mushroomed around Bakhra, improving the availability and profitability of the enterprise.		
Environmental impact	This farmer is mainly earning from Agroforestry and poultry. As we know that plantation is good for environment to provide optimal level of Oxygen, Removes toxic gases, positive impact in climate and other good effects.		
Horizontal/ Vertical spread	After break through in poultry enterprise by Kumar, 7 new poulty enterprises are mushroomed around Bakhra and other farmers are also earning through this enterprise		

Name of farmer		Mr. Rajesh Ranjan Kumar	
Address		Village: Chanpur Parari P.O: Madwan	
		District: Muzaffarpur	
Contact details (Phone	e, mobile, email Id)	9771929903	
Landholding (in ha.)		2.50	
Name and description of the farm/ enterprise		Use of advance farm technology in Agriculture and Organic	
		Farming	
Economic impact	The use of several improved and innovative technologies has yielded improved productivity		
	levels as well as rise in income levels for several crop. For instance:		
	a. Organic farming (Vegetable):		

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• I st	arted organic farming for all the vegetable and cereal crops using
verm	icomposting, biological treated seed, waste decomposer and last one year I
have	used Micro-Irrigation system for vegetable crops. It has led to improved
prod	uction through better quality of produce, increasing the income by 60%.
 I stator I stator orgator farm prod Train in in conv techy 	ted vermicompost production based on 2 cows. It is used in my own farm for nic farming reducing my input cost. The leftover is sold among the neighboring ers generating an income of Rs. 130,000-135,000/ annually. It improved the uce by 30% than the conventional method of farming, thus the income 52%. ned in the mass multiplication of Trichoderma viridi from KVK, Saraiya. I use it proving the quality of vermicompost, thus, it is sold a double price than the entional compost, increasing the income by 100%. The implementation of above pology has improved the productivity of vegetable crop by 5 50 to 7 75 g/acre
The important of the im	belementation of above technology has improved the productivity 8.10 to 10.60 e. at lage: the use of this technology in wheat has several implication on following cts inction in input cost: ploghing has been reduced and minimize Rs. 2200.00 per acre ation: per hour utilization of water has reduced and minimizing the cost of vation by Rs.600.00/acre. inced in production: inced crop lodging 10-12 % ince moisture retaining capacity. ease uptake of nutrient than the conventional tillage practices. creases the productivity up to 15-20% e implementation of above technology has improved the productivity 18.50 to 0 q/acre. icro-irrigation this technology "Per Drop More Crop" in vegetable and other crop has
several in	nplications on following aspects
✓ H ⁱ	gher consistent quality yields
✓ H	uge water savings: no evaporation, no run off, no waste
✓ 10	0% land utilization – drip irrigates uniformly in any topography and soil type
✓ En	nergy savings: drip irrigation works on low pressure
✓ En	ficient use of fertilizer and crop protection, with no leaching
✓ La	ess dependency on weather, greater stability and lower risks
Social impact I was the f	irst to start organic farming in the village. At the experimental level was made fun

	ANNUAL REPORT 2020 (1st January- 31st December 2020)
	by fellow farmers, relatives and nearby people. But when the produce was obtained,
	everyone was astonished by the quality and the sale value of the produce. Thereafter I
	initiated a no. of programmes as such:
	1) Kisan club at Bhagwatpur village.
	2) I initiated networking of farmers to KVK, Saraiya. As a result a lot of farmers
	were trained in soil testing, vermicomposting
	3) A group organic farming was initiated as a result Bhagwatpur was declared "Javik
	Gram".
	4) On environmental day, the sapling was distributed among the farmers.
	5) The soil health cards were distributed among the farmers.
	6) I started Micro-Irrigation system in my village for vegetable crop, after that adopted this
	system 15 farmer in and around my village more than 5 ha. Initially I make effort for
	dissemination of this technology but at present many of farmers interested and demanded
	for this system.
	Several formers reached and visit to his form by own or through world vision NGO for
	Exposure visit and see the technology and idented
	Lipitized line Zero tillage wheat in year 2017 by Zero till seed drill cum fertilizer
	machine in this 3 year I dissimilated this technology in 80 ha land in Marwan block block
	Initially I make effort for discemination of this technology but at present many of farmers
	interested and demanded for this machine
	Also community Nursery started during from 2019 in 0.1 acre of land and getting
	more benefit than vegetable nursery cultivation in same land within one month. Now this
	technology adapted in 0.3 acre of land and from this technology 20 to 50 farmers get
	benefitted and vegetable nursery in due time.
	Several farmers reached to his farm by own or through ATMA and other agency for
	Exposure visit and see the technology and adapted.
	I SJ SJ SJ
Environmental	Organic farming is good for health, soil, water as well as overall environment
impact	
Horizontal/	Disamination of wheat sowinh through Zero till seed drill cum fertilizer machine in 80
Vertical spread	hectare land in Madwan Block.
	Community nursery increased from 0.1 hectare to 0.3 hectare land.
	Microirrigation system in mora than 5 hectare.

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

Sl.	Name/ Title of the	Name/ Details of	Brief details of the Innovative Technology	
No.	technology	the Innovator(s)		
1.	Use of Aztobacter and	Rajesh Kumar,	It is expected to produce synergistic effect if	
	PSB with Vermicompost.	Bhagwatpur	used in combination than use as single.	
2.	Use of herbs in Gulal	Shrikant	The herbs as tulsi, Alovera used in Gulal for	
		Kushwaha.	colour as well as for benefit of skin	
3.	Roof top rain water	Rajesh Kumar	This technology raise the ground water level	
	harvesting Structure	ranjan, Avinash		
		Kumar, Shrikant		
		Kushwaha		

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.	Vermi composting	Reduce the height of the pit from 2.5 to 2.0 ft	Increase the production of vermin compost in shortest period
3.	Vegetable	Intercroppingofcucurbitswithcauliflowerthroughmulching	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	09 ha	Cauliflower- 220 q/ha Carrot-115 q/ha Tomato-324 q/ha Lady finger-122 q/ha Amaranthus-124 q/ha Spinach-76 q/ha Beet- 180 q/ha Bitter gourd-109q/ha Potato – 210 Q/ha	32	Local, Karja, Saraiya, Muzaffarpur, Bazar samiti, Lalganj Mandi

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.	AWS machine	1
16.	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		
21	300	321		

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

SI.	Analysis	No. of Samples analyzed	No. of Villages	No. of Farmers	Amount realized (Rs.)
1.	Soil	321	22	321	35350.00
2.	Water				
3.	Plant				
4.	Fertilizers				
5.	Manures				
6.	Food				
7.	Others (if				
	any)				

3.11.d. Details on World Soil Day

Sl. No.	Activity	No. of Participant s	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1.	Training	56	-	-	35	56

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.)
4	6	100	150	17

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
6	120 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
23/12/2020	Smt. Kanchan Mala	Kisan Diwash
10/09/2020	Dr. Sanjay Pankaj	Field Visit
	Dr. Virendra Singh	Field visit

4. IMPACT

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

Name of specific	Noof		Change in income (Rs.)		
technology/skill transferred	participants	% of adoption	Before (Rs./Unit)	After (Rs./Unit)	
Vermicompost production	145	20%	3000.00	4000.00	
Mushroom cultivation	170	8%	10000.00	80000.00	
Seed Production	120	9%	2000.00	2200.00	
Value addition	227	6%	2500.00	2700.00	
Goatary	30	14%	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 te	echnologies	
Technology	Horizontal spread	
Micro Irrigation 42 farmers adopted micro irrigation system in 27 acre in vegetable crop		
-	increases upto 30-40 %.	
Zero Energy Cool	Eight farmers adopted this technology for fresh vegetable storage and Storage	
Chamber	duration of fresh vegetable increased for two to eight days.	
Roof Top Rain	Six farmers adopted this technology for ground water recharge.	
Water Harvesting		
Structure		
Gramin Krishi	Under DAMU Project KVK Saraiya releases weater Advisory services two times	
Mausam Seva	in a week to 1800 farmers of Muzaffarpur district.	
Zero tillage in wheat Under CSISA project KVK Saraiya organized OFT on zero tillage wheat sinc		
	2014 with 5 acre of land. During this financial year 3600 acre of land covered by	
	zero tillage wheat through proper monitoring and guidelines of KVK Saraiya	

	Muzaffarpur in different block. Yield increases upto 12-17% also reduces the
	cost of cultivation up to Rs 4200.00/ha
Mushroom	KVK Saraiya has extensively aware about the mushroom cultivation of different
cultivation	type like Button, Oyster and Milky among the rural youth and rural women.
	Many of them developed sale counter as a outlet to bring or purchase mushroom
	from different grower of district and supply it to the thrust area of demand with
	the help of KVK. About 1.5 tones fresh mushroom are being used at different
	level. During the year 2020 about 13500 complete mushroom bags were
	distributed as Kit among the different groups with the help of DHO.
	Muzaffarpur with technical support of KVK. Many of the trainees now
	developed their own business specially cultivation of oyster mushroom
	KVK Saraiya developed ten entrepreneurs one for mushroom snawn production
	andnine for cultivation Three entrepreneurs making value added products
Direct Seeded Rice	Under CSISA project KVK Sarajya organized OFT on DSR since 2015 with A
	acre of land During this financial year 700 acre of land covered by DSR through
	proper monitoring and guidelines of KVK Saraiya Muzaffarpur in different
	block. Vield increases unto 12-22% and also decreases 30 to 32 labours per ha of
	land Also reduces the cost of cultivation \mathbf{R}_{s} 4000 00 per ba
Soud production of	17 formers adopted seed production programme out of which 0 formers produces
seeu production of	17 farmers adopted seed production programme out of which 9 farmers produces
cereals and pulses	of the district
Vormi composting	For enserie forming 150 formers and form women adopted this technology
verini composting	For organic farming 150 farmers and farm women adopted this technology.
	Among them 14 are developed large scale production unit having capacity 42 to
	At tons annuary and supply to the agriculture department and other agencies.
T • • • • • • • • • • • • • • • • • • •	Kest are produces small amount for sell use in organic farming.
Line sowing of	Line sowing of green gram practiced by 360 farmers of Chainpur, Ayodnpur,
Greengram through	Pokhraira and Jasauli village and covering 51 ha of land during summer 2020.
Zero till seed drill	This technology is beneficial to the farmers in terms of economics as well as
cum fertilizer	yield also. The yield increases 25-27% and cost of cultivation decreases up to
machine	3300.00/na
Line sowing of	Line sowing of Mustard practiced by /00 farmers of Chainpur, Ayodhpur,
Mustard through	Poknraira and Jasauli village and covering 58 ha of land during summer 2020.
Zero till seed drill	This technology is beneficial to the farmers in terms of economics as well as
cum fertilizer	yield also. The yield was increases 27-32 % and cost of cultivation decreases up
machine	to 2800.00/ha
· · · · · ·	
Lac bangle making	During 2016 2020 seven skill oriented training programme on lac bangle
	making was organized for rural youth in which120 participants were benefitted
	and 06 rural youth initiate to making lac bangle at commercial level. They are
	getting Rs. 10000.00 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	38%

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		of inorganic fertilizer. Also for quality production	
2)	Promotion of Rice variety Rajendra Bhagawati	For short duration and scented variety farmers adopt this variety in climatic change scenario.	29%
3)	Promotion of tuber crop	Ole, turmeric, ginger, sweet potato	10%
4)	Use of bio-fertilizer	PSB, <i>Azotobacter</i> , <i>Azospirillum</i> cereals and oilseed and <i>Rzhizobium</i> in Pulse.	16%
5)	Seed production of cereals	For income generation and increase seed replacement rate	35%
6)	Line sowing of green gram with Zero till seed drill cum fertilizer machine	Increase the production 32 to 37 % and minimize the insect pest and disease incidence	5%
7)	Seed production of pulse and oilseed	For income generation and increase seed replacement rate	48%
8)	Sowing of wheat 1 to 15 November.	Yield increased up to 22 to 27 %	58%
9)	Fertilizer application as soil test based	Minimize the cost of fertilizer and improve the soil health.	18%
10)	Protective cultivation	Low volume high value production.	6%
11)	IFS	Low volume high value multidisciplinary crop production.	1.7%
12)	Promotion of flower cultivation	Marigold, tube rose, gladiolus etc	7.1%
13)	Rejuvenation of old orchard	For quality production of mango and litchi. Increase shape and size.	2.7%
14)	Zero tillage wheat	Through this technology cost of cultivation reduces up to 4000 to 4500 per ha and also save the water use efficiency Increase the production 32 to 37 % and minimize the insect pest and disease incidence For enhancing yield up to 20 to 25 % and minimize the lodging.	60%
15)	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.	1%
16)	Mushroom cultivation	Income generation in rural youth/ women	8%

4.4. Details of innovations recorded by the KVK

Thematic area	Organic farming	
Name of the Innovation	Use of Azatobacter and PSB with Vermicompost	
Details of Innovator	Rajesh Kumar, Bhagwatpur	
Back ground of innovation	By the use of only vermicompost, increase in production was	
	not satisfactory.	

Technology details	Azatobacter and PSB are used during seed treatment for		
	availability of nutrient. After that vermicompost is used to		
	provide major and minor nutrient.		
Practical utility of innovation	Used by the farmer of Bhagwatpur village.		

4.5. Details of entrepreneurship development

Entrepreneurship development			
Name of the enterprise	Oyster spawn and oyster mushroom production.		
Name & complete address of the entrepreneur	Anil Kumar, s/o Nandu rai, village – Basudeo patti, Saraiya, Distt Muzaffarpur.		
Role of KVK with quantitative data support	KVK supported Anil Kumar in providing different training programme related to mushroom spawn 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 him. In 2019 KVK celebrated Mushroom Day in which all the new commercial grower gathered to exchange their experience. Anil Kumar got prize for his dedication in mushroom production. Due to his keen interest he was also selected for 200 hours training programme under ASCI and successfully completed the training programme.		
Timeline of the entrepreneurship development	Anil Kumar is a young and laborious farmer so he was eager to earn from other enterprise along with his traditional farming. Before getting proper training in this field he was supporting his colleague in mushroom production named Vikash kumar of same village. He individually earned Rs. 15,000.00 in winter season of 2016. This was his first experience in this field. He earned Rs. 50,000.00 in 2017 by oyster mushroom bag making under Government of Bihar. But now he was eager to cultivate mushroom separately so he took proper training from KVK Saraiya under 5 days Rural youth training programme. In year 2018 he started to cultivate oyster mushroom also. He produced 300 kg of button mushroom with net profit of Rs 1.2 lakh and Rs. 23,000.00 from oyster mushroom production. Now he is engaged in mushroom spawn production also and by the help of Autoclave and gas cylinder only he started to produce 2.5 q spawn and earn Rs 22,000. As it is his first experience in spawn production but he want to expand this by producing milky mushroom spawn also.		
Technical Components of the Enterprise	Oyster and button spawn, straw mushroom production hut, boiler, autoclave, water tank, gas cylinder.		
	·		

Status of entrepreneur before and after the enterprise	Before starting mushroom production he was earning Rs 12000 per month as contractor of labours far away from his home town. But now he is earning 1.8 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, marketing the product etc. (Economic viability of the enterprise)	Present working condition of this enterprise is full of opportunities in terms of mushroom production, spawn 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 available at low cost at village level. Mushroom and Spawn 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 oyster, 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

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ASCI: The 200 hr skill development training was completed at KVK, Muzaffarpur in 2019-20 for Organic farming and Microirrigation technician . After the successful completion of the programme maximum no. of the trainees took up the activity as successful entrepneurs.

CRA project: This project was initiated in KVK Saraiya during 2020 for promoting the Agriculture as per changing climate. Under this project seed of lentil, wheat, mustard, maize and potato was provided along with advance machinery as Zero till seed drill machine, Happy seeder.

Incorporation of Milky mushroom - Spwan under FLD programme to promote the cultivation of mushroom in summer season.

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture Govt. of Bihar	Identification of training needs
	Joint implementation of training programme Diagnostic
	Team visits
	Identification of target groups
Agricultural Technology Management	Sponsored Training Programme, Training and field visit
Agency (ATMA) Muzaffarpur	
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
TIMUL,Muzaffarpur	Transfer of technology for farmers club and SHG
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 2020 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	Purpose of	Date/ Month of	Funding	Amount (Rs.)	
programme/ scheme	programme	initiation	agency	(Its.)	
CDA	Climate resilient	04/06/2020	ICAD	108040 00	
СКА	Agriculture	ICAR		490940.00	
	Training and Survey	31.09.2020	Govt of		
Bio diversity	related to biodervisty		Bihar		
	of plants and animals		Dillai		
Carib Valuan Daigar	Skill oriented training	15/07/2020			
Abbiyon	programme for		ICAR	164000.00	
Abiliyali	migrant labour				

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

SI		Yea		Details of p	roduction	1	Am (R	ount s.)	
51. N 0.	Name of demo Unit	r of estt	Area(Sq. ft)	Variety/bre ed	Produ ce	Qty.	Cost of inpu ts	Gross inco me	Remarks
1.	Mushroom spawn unit	201 2	120	-	-	-	-	-	Demonstrati on purpose
2.	Mushroom production unit	201 5	600	-	-	-	-	2500	
3.	Vermicomp ost	200 9	400			219 1 kg	-	1315 0	Demonstrati on purpose
4.	Azolla		300	-	-	-	-	-	Demonstrati on purpose
5.	Poly house	202 0		Cucurbits,tom ato, brinjal capsicum and chilli	5200		342 0	4500	
	Shed net	202 0						1500	
7.	Zero energy cool chamber	201 7	1.33						Demonstrati on purpose
8	Low cost onion storage structure	201 7	1.71	-	-	-	-	-	For demonstrati on purpose

6.2. Performance of Instructional Farm (Crops)

Name Of the	Date of sowing	Date of harvest	ea (ha	Details of production	Amount (Rs.)	Remarks
KRISHI VIGYA (Dr. Rajendra Pr	N KENDRA, SA asad Central Agrie	RAIYA MUZAFI cultural University	F <mark>ARPUR BII</mark> y, Pusa, Sama	HAR astipur, Bihar)		
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crop									
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Wheat	03/12/2019	17/04/2020	3	HD2967	Seed	7.51	125000.00	382950.00	
Rye	24/10/2019	25/03/2020	2	R.Suflam	Seed	1.35	30000.00	135000.00	
Pigeon pea	02/08/2019	20/05/2020	1	R.Arhar	Seed	0.155	5000.00	16275.00	
Green gram	13/04/2019	14/06/2020	2	IPM-2-3	Seed	0.0061	35000.00	75000.00	

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

Sl.	SI. Name of the		Amou	Amount (Rs.)		
No.	Product	Qty. (Kg)	Cost of inputs	Gross income	Remarks	
1.	Vermicompost	2191	-	13150.00		

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

SI Name		Detai	ls of product	ion	Am	ount (Rs.)	
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
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)
October- December	5 (RAWE student)	25	
Total :			

(For whole of the year)

6.6.Utilization of staff quarters

Months	QI	QII	QIII	QIV	QV	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		Expe	nditure	Ungnant halanga ag an	
	Kharif	Rabi	Kharif	Rabi	Unspent balance as on -	
Rapeseed & mustard	0	0.6	0	4.3	-0.02	
Sesamum	0	0.5	0	4.1		

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

	Released	by ICAR	Expen	Unspent	
Item	Kharif	Rabi	Kharif	Rabi	balance as on 1 st April 2013
Chickpea	0	1.8	0	1.5	
Lentil	0	3.42	0	1.5	-1.9
Green gram	0	2.07	0	1.1	

7.4. Utilization of KVK funds during the year 2020 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure			
A. R	A. Recurring Contingencies						
1	Pay & Allowances			5929698			
		11200000	6160000				
2	Traveling allowances	150000		79175			
	HRD	25000		2365			
3	Contingencies						
Α	Office head	300000		237602			
В	Training head	270000		76212			
С	FLD	95000		33733			
D	OFT	70000		38442			
E	Maintenance of building	25000					
F	Extension Kisan Mela	25000					
G	Sub-TOTAL(2+3)	960000	852460	467529			
Н							
Ι							

J	Swachhta Expenditure	15000	10748	2410
	TOTAL (A)	13135000	7023208	6867166
B. N	on-Recurring Contingencies			
1				
2				
3				
4				
	TOTAL (B)			
C. REVOLVING FUND		0	0	536251.72
	GRAND TOTAL (A+B+C)			

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2018	891972	515913	625753	782132
2019	782132	562220	420384	936151
2020	936151	593736.64	536251.72	745130.92

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	Season	With line	With	With
	activity		department	ATMA	both
Scientist farmer	1			With	
interaction meet	1			ATMA	
Evenogues visit	1	Rabi		With	
Exposure visit	1			ATMA	
Training and	4	Rabi		With	
exposure programme	4			ATMA	

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)
				1055	

8.2. Prevalent diseases in Livestock/Fishery

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

9.1. Nehru Yuva Kendra (NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

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

Type of message	No. of messages	No. of farmers covered
Сгор		
Livestock		
Fishery		
Weather	128	2500
Marketing		
Awareness		
Training information		
Other		
Total	128	2500

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	0
2.	No. of farmers registered in the portal	1800
3.	Mobile Apps developed by KVK	0
4.	Name of the App	0
5.	Language of the App	0

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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.	Agriculture Engg.	88	128	2500
2.				
3.				
4.				
5.				

9.6. a. Observation of Swachha Bharat Programme/Pakhwara

Date/			No. of Par	rticipants	
Duration of Observation	Activities undertaken	Staffs	Farmers	Others	Total
16/12/2020	Display of banner at prominent places, taking swachhata pledgempuses cleanliness,	10	30	-	40
17/12/2020	Cleanliness drive including cleaning of offices, premises	10	32	-	42
18/12/2020	Cleanliness and sanitation drive in aadopted village of KVK. Reviewing the progress made under ongoing swachhta activites	10	15	-	25
19/12/2020	Cleanliness and sanitation drive within campuses and surroundings incliding residential colinies. Stock taking of biodegradable and non- biodegradable waste disposal status and providing on the sopt solutions	10	14	-	24
20/12/2020	Organic farming practices in kitchen gardens of residential colonies	9	11	-	20
26/12/2020	Campuses on cleanliness, Quiz, assay&drawing competitions for school children, village youth	9	33	-	42
27/12/2020	2/2020 Awareness on waste management & other activities including utilization of organic wastes, polythene free status, Cmposting of kitchen and home waste materials,		17	-	27
28/12/2020	awareness on recycling of waste water,	10	13	-	23
29/12/2020	Visits of community waste disopsal sites/ compost pits, cleaning and	9	14	-	23

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	creating awareness on treatment & safe disposal of bio-degradable				
30/12/2020	Campus cleaning	9	11	-	20
31/12/2020	Cleaning of farmers hostel	10	11	-	21

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	-	
2. Basic maintenance	-	
3. Sanitation and SBM	-	
4. Cleaning and beautification of surrounding areas	25	10984.00
 Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste 	-	
6. Used water for agriculture/ horticulture application	-	
7. Swachhta Awareness at local level	-	
8. Swachhta Workshops	-	
9. Swachhta Pledge	-	
10. Display and Banner	-	
11. Foster healthy competition	-	
12. Involvement of print and electronic media	-	
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	-	
14. No. of Staff members involved in the activities	-	
15. No of VIP/VVIPs involved in the activities	-	
16. Any other specific activity (in details)	-	
Total	-	

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
Kainat International School	01/01/2020	Exposure visit of KVK	Lecture
Jahanabad			
Project Girls High School	02/10/2020	Lecture, debate and	
Saraiya		painting compitetion	
Going to School NGO	23/12/2020 to	Exposur visit of KVK,	
Children	06/01/2021	debate, painting,	Training, Lecture and
		training ,lecture	visit

Give good quality 1-2 photograph(s)

9.10. Details of 'Pre-Rabi Campaign' Programme

f	ion s the me	' ble hbha/ ha) ted	Govt. s			Part	icipants	; (No.)			Door s/No)	other s
Date of program	No. of Un Minister attended 1 program	No. of Hon MPs (Loksa Rajyasabl participat	No. of State Minister	Attended the programm	Chairman ZilaPanch ayat	Distt. Collector/ DM	Bank Officials	Farmers	Officials, PRI members	Total	Coverage by Darshan (Ye	Coverage by channel (Mumboy

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.	Campuses on cleanliness, Quiz, assay&drawing competitions for school children, village youth	20	33	-	-
2.	Awareness on waste management & other activities including utilization of organic wastes, polythene free status, Cmposting of kitchen and home waste materials,	2	17	-	-
3.	awareness on recycling of waste water,	2	13	-	-
4.	Visits of community waste disopsal sites/ compost pits, cleaning	3	14	-	-

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	and creating awareness on treatment & safe disposal of bio- degradable				
5.	Campus cleaning	1	11	-	-
6.	Cleaning of farmers hostel	1	11	-	-
7.	Display of banner at prominent places, taking swachhata pledge	1	30	-	-
8.	Cleanliness drive including cleaning of offices, premises	1	32	-	-
9.	Cleanliness and sanitation drive in aadopted village of KVK. Reviewing the progress made under ongoing swachhta activites	1	15	-	_
10.	Cleanliness and sanitation drive within campuses and surroundings incliding residential colinies. Stock taking of biodegradable and non- biodegradable waste disposal status and providing on the sopt solutions.	2	14	_	-
11.	Organic farming practices in kitchen gardens of residential colonies	3	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, Debate and local song competition	12	20	-	-

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1.	Smt Rekha Devi	Manikpur, Saraiya 7654652707	Lac bangle making
2.	Vijay Shankar Kumar Raman	Bakhara, Saraiya 9939883194	Poultry and agro forestry
3.	Rajesh Ranjan Kumar	Chanpura Parari 9771929903	Organic farming
4.	Rakesh Kumar	Dwarikanathpur	Fish based IFS Model

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

9.14. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Traning hall charge	15000	Rama University for
			RAWE Student
2.	Demonstration Unit		KVK Saraiya
	Mushroom	2500	
	Fish	2600	
	Vermi-compost	13150	
	Kitchen Garden	500	
3.	Agriculture residue	2600	KVK Saraiya
	(Straw)		
4.	Non Seed	45520	KVK Saraiya
5.	Seedling (Vegetable)	5775	KVK Saraiya
6.	Seedling(Paddy)	20745	KVK Saraiya
7.	Vegetable(Potato)	11000	KVK Saraiya
8.	Seed (Wheat)	33750	KVK Saraiya
	RAI	135000	
	Paddy	97640	
9.	Pond	65000	KVK Saraiya
10.	Soil testing	24000	KVK Saraiya

9.15. Resource Generation:

Sl.No.	Name of the	Purpose of the	Sources of fund	Amount	Infrastructure
	programme	programme		(Rs. lakhs)	created
1	CFLD	To increase the production of pulses and oilseeds	ICAR	6640000.00	
2.	CRA	For climate resilience agriculture	ICAR	498940.00	
3.	CSISA	To increase the production of cereal	ICAR	100000.00	
4.	SCSP	For empowerment	ICAR	50000.00	

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		to Scheduled castes			
5.	SAP		ICAR	15000.00	

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
2014	IMD, Pune	Not in working condition

9.17. Contingent crop planning

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

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

a) Year: 2020

b) Introduction / General Information:

This trial was conducted across district. In this trial based on date of sowing performance of **short duration** (**SDVs**) was checked with **long duration Varieties** (**LDVs**). All treatments were checked in 20 plots at different areas whose plot size was more than 0.5 acres. Variety of **long duration Varieties** (**LDVs**) was HD2967 and short duration (SDVs) was DBW 107. Both these varieties commonly shown in Muzaffarpur.

	Title	Objective	Treatment details	Date of sowing	Replication	Yield (qt./ha)
Experiment 1 (KVK-I)	Performance	Comparative study of yield performance		11-20 Nov		53-57
	of short duration and long duration varieties under different	of cultivars recommended for timely sowing with cultivars recommended for early/late	Cultivar HD2967	21-30 Nov	10	47-52
				1-15 Dec		28-30
	sowing schedules	sown conditions under early/late	Cultivar DBW 107	21-30 Nov	07	47-49

	sown conditions		
		01-15 Dec	27-30

Results

This result share that yields of Wheat is directly proportional to date of sowing. Early sowing provides higher yield compare to late sowing. Also, performance of NMWV is higher in compare to EMWV.

Experiment 2 (KVK-II)	Assessing the role of additional irrigation during	To quantify the gains in wheat productivity from	Without additional irrigation in March/ farmer practice only	No irrigation in March	08	40-42 38-40 41-43 40-41 53-57
	terminal heat stress period during grain filling stage to beat the heat stress and its effect on wheat productivity	additional irrigation given at dough stage of wheat. To understand the impact of last irrigation on the lodging of wheat.	With additional irrigation	March month		51-53 55-56 48-51
			Without additional irrigation	No irrigation in March		40-42 39-41 40-41 41-46
			With additional irrigation	March month	08	48-56 52-54 54-56 45-48

Results

Zero tillage showed higher yield in comparison to conventional tillage in both treatment. The yield efficiency of zero tillage with additional irrigation during grain filling

stage was observed maximum yield (56.25 q/ha) than conventional tillage. It has been concluded that during heat stress period (grain filling stage) if additional irrigation has given in both cases then maximum yield of wheat was obtained. It has been concluded that filling stage, if additional irrigation is given in both during stress period in grain cases then maximum vield of wheat be obtained. will

Experiment 3 (KVK-13)	Evaluation of long duration and short duration Wheat	Comparative study of yield performance of long duration and short duration	HD2967	15-30 Dec	06	31.87 31.45 33.28 33.59 32.20 32.09
	varieties	varieties	DBW 107	15-30 Dec	04	29.23

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sown in late December	under late sown condtions.		30.42 28.45 29.63
			29.63

In this trial conventional tillage under rotavator was compared with zero tillage in different date schedule.

Results :

Result share that ZT provides 3.50 to 7.00 % higher yield compare to conventional tillage rotavator with different date frame.



Climate Resilient Agriculture Program

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 2020-2021

Village	Block	District	Lan d Typ e	Sowin g Date	Variet y	Harves t Date	No. of Panicle /m ²	Yield
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					_					
								Bundle	Grain	Total
Dwarikanathp	Marwa	Muzaffarp	Low	21-06-	R.	24-10-	242	5.5	1.98-	49.5 to
ur	n	ur		2020	Masuri	2020		kg/4m ²	2.12	53.0
								-	kg/4m ²	q/ha

Rabi season crop trials 2020-2021

CROP	AREA (ACRE)	NO. of Demonstrations
Wheat	225	239
Maize	60	157
Rai	50	130
Potato	03	26
Lentil	30	106
Total	368	658



Lentin sowing under CRA Project



Wheat sowing with zero tillage under CRA Project



Wheat sowing with zero tillage under CRA Project



Potato field visit to Non CRA Village under CRA Project



Mustard sowing with zero tillage under CRA Project



Mustard field visit to Non CRA Village under CRA 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)		
с.	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		
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b. Fund received under TSP in 2017-18 (Rs. In lakh):

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

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

d. Location and Beneficiary Details during 2017-18

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

12. Details of SCSP

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

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

Natural Resource Management

Name of intervention undertaken	Numbers No under of		No Area		N	o of :	farr bei	ners nefitt	cov ted	ered	No of farmers covered / benefitted							
	under	01	(ha)	SC		ST		Otł	ner	Tot	al		Kemarks					
taken		units		Μ	F	Μ	F	Μ	F	Μ	F	Т						

Crop Management

Name of intervention undertaken	Area (ha)		No	of far	mers	cover	red / b	enefit	ted		Remarks
		S	SC ST Other Total								
		Μ	F	Μ	F	Μ	F	Μ	F	Т	

Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)		N	o of	farı bei	ners nefit	cov ted	ered		Remarks	
				SC	SC ST Other Total								
				Μ	F	Μ	F	Μ	F	Μ	F	Τ	

Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	N	0 0	f far	mer	's cov	vere	d / b	ene	fitted	Remarks
			SC		ST		Otl	ıer	Tot	al		
			Μ	F	Μ	F	Μ	F	Μ	F	Т	

Capacity building

Thematic area	No of Courses]	No of	f bene	ficiarie	S		
		SC	S	T	Other			Total		
		Μ	F	Μ	F	Μ	F	Μ	F	Т

Extension activities

Thematic area	No of activities	No of beneficiaries

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	SC	ST	T Other				Total			
	Μ	F	Μ	F	Μ	F	Μ	F	Т	

Detailed report should be provided in the circulated Performa

14. a) Awards/Recognition received by the KVK in year 2020

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

b) Award received by Farmers in year 2020

SI.	Name of the Award	Name of the Farmer	Address	Contact No.	Aadhar No.	Amount	Purpose	Conferring Authority
1.	Innovative	Rama	Vill-	9934920015	222917539654	5000	Use of farm	DRPCAU,
	farmer Purskar	Shankar	Chainpur				machinery	Pusa
		Singh	Parai				to increase	
			Madwan				the	
							productivity	
							of Mustard	
							& green	
							gram	
2.	Jagjivan Ram	Rama	Vill-	9934920015	222917539654	25000	Use of farm	ICAR
	Abhinav	Shankar	Chainpur				machinery	Delhi
	Purskar	Singh	Parai				to increase	
	(Zonal)		Madwan				the	
							productivity	
							of Mustard	
							& green	
							gram	

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

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

							Financi	
	Nama of		Date of				al	
Sl.	the		Trust	Proposed	Commod	No. of	positio	Success
No	organizati	Trust Deed No.& date	Registrati	Activity	ity	Membe	n	indicat
	on/Society		on	Activity	Identified	rs	(Rupee	or
	on/ Society		Address				s in	
							lakh)	

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1.	Climate resilient agriculture farmers producer company ltd	01 May 2018	Karja anant, Muzaffarp ur	Growing of crops, marketing, gardening horticulture	Vegetable s		
2.	Jyoti farmers producer company ltd	15/10/2015	Goregama , Karja Muzaffarp ur		Vegetable s		
3.	Sarvodaya sabji utpadak producer company ltd 2016	U01400BR2016ETC02 5761		regular training and interaction with members seed production training, frontline demonstrati on	Vegetable and seed productio n		

17. Integrated Farming System (IFS)

A) Details of KVK Demo. Unit

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

B) Activities under IFS

		No. of	A mag	No. of Activities		No. of farmers benefited	
Sl. No.	Component Name	Components established	(ha)	Demo	Training	Demo	Training
1.							
2.							
3.							

18. Technologies for Doubling Farmers' Income

Sl. No.	Name of the	Brief Details of	Net Return to	No. of farmers	One high
KRISHI VIC (Dr. Rajendr	GYAN KENDRA, SARAIY a Prasad Central Agricultur	A MUZAFFARPUR BIHAR ral University, Pusa, Samastipur, Bihar, Page 178 of 19			Page 178
	Technology	Technology (3- 5 bullet points)	the farmer (Rs.) per ha per year due to adoption of the technology	adopted the technology in the district	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. 	12000	10	
2	Backyard poultry		18000	12	
3	Vericompost	 High quality compost prepared in 45-60 day. More than 6 times beneficial in compare to general compost. 	12000	25	
4	Drip and sprinkler irrigation	 .watering the crop more efficiently in minimum amount of water. Productivity increase due to sufficient water per plant 	15000	5	

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

	Database pre	pared/ covered for	KVK leve	l Committee	Vorious optivity	
Phase	Total no. of villages	otal no. of Total no. of villages farmers		Name of members	conducted for farmers	
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	Name of the	Date of	Date of	No. of	Whether	Fund

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	the Job role	certified Trainer of KVK for the Job role	start of training	completion of training	participants	uploaded to SDMS Portal (Y/N)	utilized for the training (Rs.)
2016-17							
2017-18							
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

b) Information on Skill Development Training Programme (Other than ASCI or less than 200 hrs. if any) if undertaken during 2020

Thematic area	T:41a of 4ha	Dunation			N	o. of	parti	icipa	nts			Frend settling of for
of training	training	(in hrs.)	S	С	S	Т	Ot	her	Total		al	Fund utilized for the training (Bg)
			Μ	F	Μ	F	Μ	F	Μ	F	Т	the training (KS.)

22. Information of NARI Project (if applicable)

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

Progress Information of NARI Project

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

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

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

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

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

d. Training programmes in Nutri-Smart village

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

e. Extension activities under NARI Project

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

23. Activities under KSHAMTA

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

24. Activities under MGMG:

Total No of Groups/team formed	No. of Scientists Involved	No. of villages covered	No. of field activities conducted	No. of messages/ advisory sent	Farmers benefited (No.)

25. Activity information of Farmer FIRST Programme (FFP)

SI	Madulas	Activity Information									
51.	wiodules	Demo (No.)	No. of Farm	Families							
1.	NRM Module										
2.	Crop Module										
3.	Horticulture Module										
4.	IFS Model										
		Demo (No.)	No. of Farm Families	No. of Animals							
5.	Livestock & Poultry										
		No. of Program No. of farmers									
6.	Extension Activities										

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

Krishi Kalyan Abhiyan- I/II A. Training

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

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

Nome of	No. of Programme	Total quantity distributed					Ν	No. of other officials							
Name of programme		Seed	Planting	Innut	Other	SC		ST		Others]	Fotal		(except KVK)
		(q) material (kg)	(kg/ No.)	Μ	F	Μ	F	Μ	F	Μ	F	Т	attended the programme		
KKA-I															
KKA-II															

C. Livestock and Fishery related activities

			Activitie	s performed	-]	No. o	f far	mers	bene	fited			No. of
Name of	No of	No. of	No. of	Feed/	Any other (Distributio	SC		ST		Others		Total			other officials (excent
program me	Program me	animals vaccinate d	animals deworme d	o. of imals vorme d l imals vorme d l imals vorme vorme l imals vorme l ima		М	M F		F	М	F	М	F	Т	KVK) attended the program me
KKA-I															
KKA-II															

D. Other activities

Name of			I	No. o	f far	mers	bene	efited			No. of other officials (except KVK)
Name of	Activities	SC		ST		Oth	Others		[ota]	l	attended the programme
programme		Μ	F	Μ	F	Μ	F	Μ	F	Т	
KKA-I	Soil Health Card Distributed										
	NADEP										
	Pit established										
	Farm implements distributed										
	Others, if any										
KKA-II	Soil Health Card Distributed										
	NADEP										
	Pit established										
	Farm implements distributed										
	Others, if any										

Krishi Kalyan Abhiyan- III

	No. of animal inseminated			No.		Any other if any					
No. of villages covered		SC		S'	Г	Others		Others To		l	(nl specify)
		Μ	F	Μ	F	Μ	F	Μ	F	Т	(pr. specify)

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5	2	21 07	0	0	85	12	106	19	125	Rapeseed and Mustard crop	

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

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

Name of KVK: Saraiya, Muzaffarpur

Additional Information										
Number of FPO	Created by KVK	Number of farmer	Created by other agency(NBARD/SFAC supported by KVK)	Number of farmer						
2	0	0	01 Sarvodaya sabji utpadak producer company ltd 2016 02. Climate Resilient Agriculture farmers producer company Ltd.	300 240						

Resource generation	Amount (Rs.)	Funding Agency (e.g. NHM/ATMA/RKVY/Manrega	Type of work
C		etc.)	
CFLD	6640000.00	ICAR	To increase the production of
			pulses and oilseeds
CRA	498940.00	ICAR	For climate resilience agriculture
CSISA	100000.00	ICAR	To increase the production of
			cereal
SCSP	50000.00	ICAR	For empowerment to Scheduled
			castes
SAP	15000.00	ICAR	To Clean the office premises
			and kvk farms

Special Programmes		No. of MP/ MLA/ Public Representations	No. of Officials	No. of Farmers										
(PM Address/ Ag.	Venue			SC		ST		OBC		Gen		Tot	al	
Scientist Meet/ Consumer day/ Poshan Saptah/ 150 Birthday of Mahatma Gandhi/ Farm Act/ World Food day/ Mahila Kisan Diwas				М	F	М	F	М	F	М	F	М	F	
Republic day (26 th Jan.)	On Campus	3	15	02	01	0	0	06	04	08	06	16	11	
International Women's Day (8 th Mar.)	On Campus			07	05	0	0	20	10	20	12	47	27	
International Yoga Day (21 st Jun.)	On	0	08	02	01	0	0	02	02	05	03	09	06	

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	Campus												
Independence Day (15 th	On	02	12	05	02	0	0	02	02	05	03	15	04
Aug.)	Campus												
Parthenium Awareness	On		10	05	03	0	0	04	03	09	04	20	00
Week (16^{th} to 22^{nd} Aug.)	Campus											20	08
Gandhi Jayanti (2nd Oct.)	On	01	12	15	05	0	0	20	17	30	20	65	42
	Campus												
	& OFF												
	Campus												
Mahila Kisan Diwas (15 th	On	01	0	0	02	0	0	0	08	0	10	0	20
Oct.)	Campus												
World Food Day (16th	On		06	02	01	0	0	05	04	06	02	15	05
Oct.)	Campus											15	05
Vigilance Awareness	On		07	03	02	0	0	05	03	08	02	~	18
Nov.)	Campus											2	
	On	0	12	05	02	0	0	05	04	06	03		28
	Campus	-				-							
National Constitution Day	& OFF											05	
(26 th Nov.)	Campus												
	OFF		05	05	03	0	0	15	05	14	10	34	18
World Soil Day (5th Dec.)	Campus												
	On	01	06	20	05	0	0	30	17	40	20	90	42
Kisan Diwas (23rd Dec.)	Campus												
	On		06	04	03	0	0	09	05	15	05	28	13
National Cansumer Day	Campus												
	On	01	06	20	05	0	0	30	20	50	32	100	57
Poshan Mah	Campus												
	OFF		04	10	05	0	0	15	05	20	10	45	20
Soil Health card day	Campus												

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



200 hour ASCI training programme on organic farming and Micro irrigation technicians.



Kisan goshthi organised at Mohabbatpur village under Paru block



Field visit of turmeric at Dwarikanathpur



Field day organised under CFLD programme



Practical session under 200 hour ASCI training programme technicians



Construction of 6 Rain Water Harvesting Structure Funded by ATMA



Field Day on Chickpe under CFLD Programme



TV Talk at doordarshan Patna under ganw ghar programme

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Inauguration of National Poshan Mah by Local MLA



Sr. Scientist and head and SMS, H.Sc , KVK, Saraiya attended mahila sammelan organised by Shehgal Foundation, Muzaffarpur



Site selection for CRA project at village Dwarikanathpur, Marwan



Skill India (ASCI) training program job role "Micro Irrigation Technician" 20 participants present during assessment



Debate organized at Girls High School on the occasion of birth on 2nd Oct., 2020

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Distribution of vegetable plants on the eve of 150th birth anniversary of Mahatma Gandhi



Live telecast "Mann ki baat" hon'ble PM Narendra Modi



Critical input distribution under CRA project





Rural youth training programme on Mushroom and Farm machinery training.

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Taking children weight under OFT Programme



Field visit for mushroom unit by SMS Home Sc. under world vision .





Cleaning and taking pledge on Swachhata Pakhawa



GKRA training during COVID-19 at KVK Saraiya.

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RY Training programme on lac bangle making





Crop sowing under CRA Project

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