KRISHI VIGYAN KENDRA, GAUTAM BUDH NAGAR

ANNUAL PROGRESS REPORT
(JANUARY, 2021 – DECEMBER, 2021)
APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	36	690	30	720
Rural youths/Vocational	07	64	6	70
Extension functionaries	11	220	-	220
Sponsored Training	09	324	46	370
Vocational Training	-	-	-	-
Total	**63**	**1298**	**82**	**1380**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds (CFLD)	75	30.0	-
Pulses (CFLD)	50	20.0	-
Cereals	40	16.0	-
Vegetables			-
Other crops (Fodder-Berseem)	15	1.5	-
Hybrid crops	-	-	-
Total	**180**	**67.5**	**-**
Livestock & Fisheries	35	-	35
Other enterprises + CRM + Vermi Compost (SHG)	103	37.2	2 units
Total	**138**	**37.2**	**35 animals + 10 units**
Grand Total	**318**	**104.7**	**35 animals + 10 units**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	02	02	10
Livestock	01	01	10
Various enterprises	02	02	09
Total	**05**	**05**	**29**
Technology Refined			
Crops	-	-	-
Livestock	-	-	-
Various enterprises	-	-	-
Grand Total	**05**	**05**	**29**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	251	3212
Other extension activities	13	
Total	**264**	**3212**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Live-stock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
GB Nagar	Text only	29	11	5	5	22	12	84
	Voice only	32	4	4	9	18	9	76
	Voice & Text both	24	12	7	12	18	15	88
	Total Messages	**85**	**27**	**16**	**26**	**58**	**36**	**248**
	Total farmers Benefitted	**112**	**42**	**51**	**43**	**72**	**69**	**389**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q) (Commercial)	30.12 (Wheat-HD-2967)	59638.00
	19.3 (Paddy-PB1121)	67936.00
Planting material (No.)	-	-
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil (CFLD)	75	-
Water	-	-
Plant	-	-
Total	**75**	**-**

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	3
2	Conferences	0
3	Meetings	15
4	Trainings for KVK officials (attended)	02
5	Visits of KVK officials	06
6	Book published	-
7	Training Manual	01
8	Book chapters	-
9	Research papers	-
10	Lead papers	-
11	Seminar papers	-
12	Extension folder	03
13	Proceedings	-
14	Award & recognition	-
15	On-going research projects	01

DETAIL REPORT OF APR-2021

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
KrishiVigyan Kendra, Chholas, G.B. Nagar	9968556926	-	gbnagarkvk@gmail.com mayankrai71@gmail.com

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

Address	Telephone		E-mail
	Office	FAX	
SVPUA&T, Meerut	0121-2888511 Mo- 09412923199	0121-2888511	deesvpuat2014@gmail.com

1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Mayank Kumar Rai	-	9968556926	mayankrai71@gmail.com

1.4. Year of sanction: June, 2005

1.5. Staff Position (as on 31st Dec., 2021)

S N	Sanctioned post	Name of the incumbent	Design-ation	Discipline	Pay Scale (Rs.)	Present Total basic (Rs.)	Date of joining	Perman-ent /Temp-orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Head	**Dr. Mayank Kr Rai**	Prof. & Head	Entomology	7th Pay	172200	28.06.08	Regular	Others	08178365872	49	mayankrai71@gmail.com
2	Subject Matter Specialist	Er. Madhvendra Singh	Asso. Dir. Ext.	Ag. Engg.	7th Pay	176500	20.11.13	Regular	Others	09457363443	58	singhm1501@gmail.com
3	Subject Matter Specialist	Dr. Vipin Kumar	Asso. Dir.	Agronomy	7th Pay	156900	25.04.18	Regular	Others	9013389751	48	drv_kumar1973@ rediffmail.com
4	Subject Matter Specialist	**VACCANT**										
5	Subject Matter Specialist	Smt. Vinita Singh*	Asst Prof. / SMS	Home Science	7th Pay	87300	11.07.08	Regular	Others	09717091158	49	write2vinita1@gmail.com
6	Subject Matter Specialist	**VACCANT**										
7	Subject Matter Specialist	**VACCANT**										
8	Programme Assistant	Sh. Kunvar Ghanshyam	Training Assistant	Animal Husbandry	7th Pay	87700	05.07.14	Regular	OBC	09412120240	53	kunwarg2011@gmail.com
9	Computer Programmer	Sh. Ashu Arora	Program Assistant	Computer Science	7th Pay	76500	04.03.06	Regular	Others	08010907124	48	aaroragzb@gmail.com
10	Farm Manager	**VACCANT**										
11	Accountant / Superintendent	**VACCANT**										
12	Stenographer	Sh. Rakesh Kumar	Jr. Steno	-	7th Pay	58600	06.06.06	Regular	OBC	09319367470	54	
13	Driver	Mohd. Shokin	Driver	-	7th Pay	37000	01.08.17	Regular	Others	09058541050	49	
14	Driver	**VACCANT**										
15	Supporting staff	**VACCANT**										
16	Supporting staff	Sh. Praduman	Attendant	-	7th Pay	28400	27.02.08	Regular	OBC	09675589243	43	

* On study leave

1.6. Total land with KVK (in ha) : 15.04 ha

S. No.	Item	Area (ha)
1	Under Buildings	1.0
2.	Under Demonstration Units	0.015
3.	Under Crops	14.025
4.	Orchard/Agro-forestry	
5.	Others (specify)	

1.7. Infrastructural Development:

A) Buildings

SN	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expend-iture (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	-	-	-	Oct, 06	510	Work already completed.
2.	Farmers Hostel	ICAR	-	-	-	Oct, 06	300	
3.	Staff Quarter(6)	ICAR	-	-	-	Oct, 06	400	
4.	Demonstration Units (2)	ICAR	-	-	-	Oct, 06	160	
5.	Fencing	ICAR	-	-	-	Oct, 06	2000 r.m	
6.	Rain Water harvesting system	ICAR	-	-	-	-	-	
7.	Threshing floor	ICAR	-	-	-	Oct, 06	300	
8.	Farm godown	ICAR	-	-	-	Oct, 06	60	

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total Km. Run	Present status
Jeep (M & M) Bolero	2006	472210.00	262000	Not fit for use as per NGT directions for NCR and auctioned
Tractor with implements	2006	360000.00	1981	Transfer to KVK Hapur
Tractor (New Holland) with Baler & Mulcher	2021	Received from New Holland under CSR fund		Good condition

C) Equipment's & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computers (03)	2017	-	Working
Laptop (01)	2017	-	Working
Laptop (01)	2013	-	Working
Chart, Poster & CD	2008	8500.00	Not Working
LCD projector (01)	2007	68125.00	Working
Computer with MFP (01)	2006	67000.00	Poor condition

1.8. A). Details SAC meeting* conducted in the year - Schedule on 17th Jan, 2022 as postponed of 21Dec, 2021.

2. DETAILS OF DISTRICT (31st Dec., 2021)

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

SN	Farming system / enterprises
1	Crop Production + Dairy
2	Crop Production + horti (Fruit)
3	Crop Production + horti (Vegetable)
4	Crop Production + Backyard poultry
5	Piggery
6	Fisheries

2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

SN	Agro-climatic Zone	Characteristics
1	Western Plain Zone	Sandy loam and loamy soil texture, canal and tube well irrigation, medium rainfall, sub-tropical climate, rice-wheat crop rotation crop production based dairy farming system.

SN	Agro-ecological situation	Characteristics
1	AES – I	**Soil type** - Sandy loam soil **Crop rotation** - Rice-Wheat, Jawar (fodder) -wheat, Arhar-wheat, Jawar(fodder) -lentil, Vegetables **Orchard –** Mango, Guava **Mixed farming system**
2	AES – II	**Soil type** - Sandy loam, Loam soil **Crop rotation** - Rice-wheat, Jawar(fodder)-wheat, Arhar-wheat, Jawar(fodder)-lentil, Vegetables **Mixed farming system** Some area water logged

2.3 Soil type/s

SN	Soil type	Characteristics	Area in (ha)
1	Sandy loam	Sand percentage medium and water holding capacity medium.	37880
2	Loam	Soil fertility status and water holding capacity is high	100937

2.4. Area, Production and Productivity of major crops cultivated in the district

SN	Crop	Area (ha)	Production (Metric ton)	Productivity (q/ha)
1	Rice	15366	37498	25.33
2	Maize	442	237	5.36
3	Bajra	8304	9719	11.70
4	Urd	1	1	5.87
5	Moong	3	12.28	4.14
6	Arhar	3497	26228	7.50

SN	Crop	Area (ha)	Production (Metric ton)	Productivity (q/ha)
1	Wheat	43503	190	41.76
2	Barley	963	3500	36.34
3	Gram	-	-	-
4	Pea	37	50	15.15
5	Lentil	7	9	12.86
6	Toria	236	379	16.06
7	Mustard	3553	3442	10.27

2.5. Weather data 2021(up to 31.12.2021) -

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
January, 2021	18.00	-	-	-
February, 2021	0.00	-	-	-
March, 2021	22.00	-	-	-
April, 2021	66.00	-	-	-
May, 2021	4.00	-	-	-
June, 2021	67.00	-	-	-
July, 2021	138.00	-	-	-
August, 2021	174.00	-	-	-
September, 2021	220.00	-	-	-
October, 2021	180.00	-	-	-
November, 2021	0.00	-	-	-
December, 2021	0.00	-	-	-

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred	15196	121568	8.00
Indigenous	16398	106587	5.50
Buffalo	272847	2319199	7.30
Sheep			
Crossbred	3770	4713	1.20
Indigenous	898	674	0.75
Goats	18176	327168	18.0
Pigs			
Crossbred	808	44440	51
Indigenous	7369	359788	44.0
Poultry			
Improved	22233	24456	1.20
Category	**Population**	**Production**	**Productivity**
Inland	-	3735 q	25/ha/year

2.7 Details of Operational area / Villages (2021)

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust area
Dadri	Dadri	Chhaulas Naibasti Saithali Veerpura Nagla-Nainsukh Palla Luharli Chaysa Bambabad Akilpur Basantpur Milak Khandera Khursadpura	Rice Wheat Jawar Mustard Lentil Vegetables Orchards Dairy Poultry	• Lower yield of cereals due to imbalanced use of fertilizer and heavy weed infestations. • In pulses pod borer's problem and wild cows. • In oilseeds nutritional problems (Sulphor deficiency) • Wilt in guava orchard • Alternate bearing & pest problem in mango orchard • In milch animals repeat breeding • Worm's infestation	• IPNM • IWM • IPM • Guava orchard management with respect to wilt. • Mango orchard management • Balanced animal feeding • De-worming
Sadar	Bisrakh	Duryai Thapkheda Dujana Moihayapur	Rice Wheat Jawar Mustard Lentil Vegetables Orchards Dairy Poultry	• Lower yield of cereals due to imbalanced use of fertilizer and heavy weed infestations. • In pulses pod borer's problem and wild cows. • In oilseeds nutritional problems (Sulphor deficiency) • Wilt in guava orchard • Alternate bearing & pest problem in mango orchard • In milch animals repeat breeding • Worm's infestation	• IPNM • IWM • IPM • Guava orchard management with respect to wilt. • Mango orchard management • Balanced animal feeding • De-worming

Jewar	Dankor	Parsol Bilaspur Cheersi Bagpur Cheetee Dadupur Atta- Fatehpur	Rice Wheat Jawar Mustard Lentil Vegetables Orchards Dairy	• Lower yield of cereals due to imbalanced use of fertilizer and heavy weed infestations. • In pulses pod borer's problem and wild cows. • In oilseeds nutritional problems (Sulphor deficiency) • Wilt in guava orchard • Alternate bearing & pest problem in mango orchard • In milch animals repeat breeding • Worm's infestation	• IPNM • IWM • IPM • Guava orchard management with respect to wilt. • Mango orchard management • Balanced animal feeding • De-worming
	Jewar	Chakvee- rampur Dhansia Dastampur Mahmadpur- Jadaun Cheeti Astoli	Rice Wheat Jawar Mustard Lentil Vegetables Orchards Dairy	• Lower yield of cereals due to imbalanced use of fertilizer and heavy weed infestations. • In pulses pod borer's problem and wild cows. • In oilseeds nutritional problems (Sulphor deficiency) • Wilt in guava orchard • Alternate bearing & pest problem in mango orchard • In milch animals repeat breeding • Worm's infestation	• IPNM • IWM • IPM • Guava orchard management with respect to wilt. • Mango orchard management • Balanced animal feeding • De-worming

2.8 Priority/thrust areas

Crop/Enterprise	**Thrust area**
Rice/Wheat	Integrated Plant Nutrient Management in Rice-wheat cropping.
Rice/Wheat	Integrated Weed Management in Rice-wheat cropping.
Pulse	Increase area under the kharif and rabi pulses.
Fodder	Round the year green fodder production
Cereals	Integrated Pest Management in crops.
Guava	Rejuvenation of old mango orchards and mgt. of guava orchards.
Vegetables	Organic Vegetables farming
Dairy	To reduce repeat breeding in buffaloes & cows and calf mortality
Poultry	Promotion of Backyard poultry.
Horticulture	Introduction of aromatic & medicine plants.
Kitchen Garden	Nutritional kitchen gardening.
Value Addition	Value addition in fruits and vegetables.

2.9 Intervention/ Programmes for the doubling the farmers income – (Jan – December, 2021) **Demonstrations**

Before Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent Yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Intercropping System(Kharif-Rabi-Zaid) -Livestock etc.							

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Intercropping System(Kharif-Rabi-Zaid) -Livestock etc.							

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

Before Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Mono Cropping System(Kharif-Rabi-Zaid) -Livestock etc.							

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Mono Cropping System(Kharif-Rabi-Zaid) -Livestock etc.							

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

Before Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Relay Cropping System(Kharif-Rabi-Zaid) -Livestock etc.							

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Relay Cropping System(Kharif-Rabi-Zaid)-Livestock etc.							

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

Before Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Mixed Farming System(Kharif-Rabi-Zaid)-Livestock etc.							

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Mixed Farming System(Kharif-Rabi-Zaid) -Livestock etc.							

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

Before Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
IFS System(Kharif-Rabi-Zaid) -Livestock etc.							

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
IFS System(Kharif-Rabi-Zaid) -Livestock etc.							

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

Note- Same format may be used for OFT.

3. TECHNICAL ACHIEVEMENTS

3.A. Target and achievements of mandatory activities by KVK during Jan-Dec., 2021

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
12	05	51	29	100.0	104.7 + 35 animals+10 units	200	318

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	72	36	1440	720	1000	264	5000	3212
Rural youth	12	07	120	70				
E.F.	16	11	320	220				
Sponsored	-	9	-	370				
Total	**100**	**63**	**1880**	**1380**				

Seed Production (q)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to farmers	Target	Achievement	Distributed to farmers
200	49.42	-	20000	-	-

Soil/plant/water Analysis		
7		
Target	Achievement	No. of farmers covered
-	75	75

I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Nutrient Mgt.	Wheat	Assessment of water soluble fertilizers on wheat yield and cost of production (Rabi 2020-21)	1	5
Nutrient Mgt	Paddy	Assessment of water soluble fertilizers on Basmati paddy yield and cost of production (Kharif 2021)	1	5
Total			**02**	**10**

Summary of technologies assessed under livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Feed Mgt.	Buffalo (2021)	Assessment of UMMB complementary feed for controlling infertility in milching animals	1	10
Total			**01**	**10**

Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers
Farm machinery	Agril. Engineering	Assessment of different wheat sowing implements after harvesting of paddy (Rabi 2020-21)	01	05
Farm machinery	Agril. Engineering	Impact assessment of various puddling techniques on paddy yield and cost of field preparation. (Kharif 2021)	01	05
Total			**02**	**10**

I.B. TECHNOLOGY REFINEMENT – N/A

I.C. TECHNOLOGY ASSESSMENT IN DETAIL

CROP PRODUCTION

OFT-1 Assessment of water soluble fertilizers on wheat yield and cost of production (Rabi 2020-21)

Problem definition : High cost of production and low yield.

Technology Assessed: *To assess the water soluble fertilizers on wheat yield and cost of production.*

Table.

Technology Option	*No. of trials*	*Yield (qt./ha)*	*Increase in yield (%)*	*1000 Grain wt. in gms*	*Net Return (Rs./ha)*	*B:C Ratio*
T_1 - Farmers practice {150:60:0 kg/ha NPK}	*05*	47.5	-	43	43140.00	1.75:1
T_2 - *75*% RFD (120:60:40 kg NPK/ha) as basal + 2 spray of NPK (19:19:19) @ 2.0 kg/acre		50.8	7.0	44.5	46712.00	1.90:1

OFT-2 Assessment of water soluble fertilizers on Basmati paddy yield and cost of production (Kharif 2021)

Problem definition : High cost of production and higher no. of unfilled grain.

Technology Assessed: *To assess the water soluble fertilizers on paddy yield and cost of production.*

Table.

Technology Option	*No. of trials*	*Yield (qt./ha)*	*Increase in yield (%)*	*No. of filled Grain / ear head*	*Net Return (Rs./ha)*	*B:C Ratio*
T_1 - Farmers practice {120:60:0 kg/ha NPK}	*05*	42.0	-	58	32900.00	1.50:1
T_2 - *75*% RFD (120:60:40:25 kg NPKZn/ha) as basal + 2 spray of NPK (0:52:34) @ 2.0 kg/acre		44.6	6.2	63	40600.00	1.80:1

OFT-3 Assessment of UMMB complementary feed for controlling infertility in milching animals (Rabi 2020-21)

Problem definition: High incidence of infertility in cows.

Technology: *Assessment of UMMB animal feed supplementation to control the infertility*

KVK, Gautam Budh Nagar conducted trial to find out suitable remedies for controlling infertility. In this trial UMMB and farmer practice assessed for this problem. UMMB shows better result and more effective than other remedies.

Assessment of UMMB brick

Technology Option	*No. of trials*	*No. of animals*	*No. of heat animals*	*No. of serviced animals*	*No. of pregnant animals*	*Conception rate %*
Farmer's practice (salt)	*01*	*10*	*3*	*3*	*2*	*20*
Mi Use of UMMB@ 1 brick for 7 days/animal		*10*	*8*	*8*	*6*	*70*

OFT.4. Assessment of different wheat sowing implements after harvesting of paddy (Rabi 2020-21)

Problem definition: Low yield of wheat due to late sowing after paddy harvesting**.**

Technology Assessed: Sowing through happy seeder after harvesting of paddy

Table - *Effect of various sowing methods on yield of wheat.*

Technology Option	***No. of trials***	***Yield (qt./ha)***	***Increase in yield (%)***	***Net Return (Rs./ha)***	***B:C Ratio***
T_1 - *Farmer's practice* - Broadcasting after harrowing	04	48.0	-	32800.00	1.49:1
T_2 –Sowing through seed drill after one harrowing		54.8	14.16	43880.00	1.65:1
T_3 –Sowing through happy seeder after harvesting of paddy.		52.0	8.33	38700.00	1.57:1

OFT.5. Impact assessment of various puddling techniques on paddy yield and cost of field preparation. (Kharif 2021)

Problem definition: Higher cost of field preparation and poor establishment of seedlings after transplanting.

Technology Assessed: Puddling through rotavator and harrow.

Table - *Effect of various puddling techniques*

Technology Option	***No. of trials***	***Yield (qt./ha)***	***Increase in yield (%)***	***Net Return (Rs./ha)***	***B:C Ratio***
T_1 - *Farmer's practice*	05	38.5	-	27000.00	1.30:1
T_2 –Puddling through rotavator.		43.1	11.94	40800.00	1.50:1
T_3 –Puddling through twice harrowing		42.5	9.35	39000.00	1.40:1

II. FRONTLINE DEMONSTRATION

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2020 and recommended for large scale adoption in the district

SN	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Green gram	CRM	Package of agronomy practices for max. production	Demonstration, Training and Gosthi, Field day	35	175	80.0
2	Lentil	ICM	Package of agronomy practices for max. production	Demonstration, Training and Gosthi, field day	30	200	90.0
3	Paddy	INM	Balanced fertilizer(Daincha (GM) + *:60:60:25) * Rest of nitrogen through urea up to 120 kg.	Demonstration, Training and Gosthi	18	160	48.0
4	Wheat	INM	Effect of secondary and micronutrient on wheat	Demonstration, Training and Gosthi	35	175	80.0
5	Paddy (PB)	Varietal Evaluation	Variety Pusa Basmati 1612	Demonstration, Training and Gosthi	30	200	90.0
6	Wheat (PB)	Varietal Evaluation	Variety HD-3086, DBW-88	Demonstration, Training and Gosthi	32	350	200.0
7	Ferti seed drill (AE)	Sowing methods	Sowing of wheat through ferti seed drill	Demonstration, Training and Gosthi	22	68	6.0
8	Laser leveler	RCT	Importance & use of laser levellor	Demonstration, Training and Gosthi	14	70	18.0
9	Ferti seed drill (AE)	Sowing methods	Sowing of wheat through ferti seed drill	Demonstration, Training and Gosthi	22	82	22.0
10	Wheat	CRM	Mechanization for field preparation of wheat after sugarcane& sowing of wheat through zero till ferti seed drill	Demonstration, Training and Gosthi	66	259	82.0

b. Details of FLDs implemented during 2021

SN	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Mustard	ICM	Package of agronomy practices for max. production	Rabi 2020-21	20.0	20.0	03	47	50	-
2	Green gram	ICM	Package of agronomy practices for max. production	Zaid 2021	10.0	10.0	03	22	25	-
3	Black gram	ICM	Package of agronomy practices for max. production	Kharif 2021	10.0	10.0	04	21	25	-
4	Mustard	ICM	Package of agronomy practices for max. production	Rabi 2021-22	10.0	10.0	02	23	25	-
5	Wheat	Weed mgt	Demonstration of new weedicide (Clodinafob 9% + metribuzine 20%) for weed mgt. in wheat	Rabi 2020-21	4.0	4.0	-	10	10	-
6	Paddy	Weed mgt.	Demonstration of new weedicide (Phenoxulum @ 50ml/acre)	Kharif 2021	4.0	4.0	01	9	10	-
7	Vermi compost	Soil health	Production of vermin compost for income generation and soil health	Kharif 2021	-	-	-	10	10	-
8	Wheat	Varietal Evaluation	HYV demonstration (Variety HD-3226)	Rabi 2021-22	4.0	4.0	-	10	10	
9	Wheat		HYV demonstration (Variety DBW-0187)	Rabi 2021-22	4.0	4.0	-	10	10	
10	Wheat	RCT	Sowing of wheat through ferti seed drill	Rabi 2020-21	4.0	4.0	-	10	10	-
11	Wheat	CRM	Mechanization for field preparation of wheat after paddy through mulcher	Rabi 2020-21	-	20.4	08	43	51	-
12	Wheat	CRM	Sowing of wheat through zero till ferti seed drill	Rabi 2020-21	-	4.8	02	10	12	-
13	Paddy	RCT	Importance of levelling through laser leveller	Kharif 2021	4.0	4.0	-	10	10	-
14	Wheat	RCT	Sowing of wheat through ferti seed drill	Rabi 2021-22	4.0	4.0	-	10	10	-
15	Berseem	Fodder mgt	To increase yield through HYV BL-10	Rabi 2020-21	0.5	0.5	-	05	05	-
16	Berseem	Fodder mgt	To increase yield through HYV BL-10	Rabi 2021-22	1.0	1.0	-	10	10	-

Details of farming situation

SN	Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing /application date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
					N	P	K					
1	Mustard	Rabi 2020-21	Irrigated	Loam & sandy loam	Medium	Medium	Medium	Paddy	12-23.10.2020	18-27.03.2021	60	05
2	Green gram	Zaid 2021	Irrigated	-do-	Low	Medium	Medium	Wheat	18.03.21 – 05.04.21	25.05.21 - 12.06.21	32	03
3	Black gram	Kharif 2021	Irrigated	-do-	Low	Medium	Medium	Sorghum	17-26.07.21	04-07.11.21	582	15
4	Mustard	Rabi 2021-22	Irrigated	-do-	Medium	Medium	Medium	Paddy	18.10.21- 05.11.21	-	12	02
5	Wheat	Rabi 2020-21	Irrigated	-do-	Low	Medium	Medium	Paddy	12-18.11.20	22.04.21 to 05.05.21	60	05
6	Paddy	Kharif 2021	Irrigated	-do-	Low	Medium	Medium	Green gram	15-28.06.21	25-30.10.21	592	17
7	Vermi compost	Kharif 2021	Irrigated	-do-	Low	Medium	Medium	-	-	-	-	-
8	Wheat	Rabi 2021-22	Irrigated	-do-	Low	Medium	Medium	Paddy	16-28.11.21	-	12	02
9	Wheat	Rabi 2021-22	Irrigated	-do-	Low	Medium	Medium	Paddy	16-28.11.21	-	12	02
10	Wheat	Rabi 2020-21	Irrigated	-do-	Low	Medium	Medium	Paddy	12-18.11.20	22.04.21 to 05.05.21	60	05
11	Wheat	Rabi 2020-21	Irrigated	-do-	Low	Medium	Medium	Paddy	12-18.11.20	22.04.21 to 05.05.21	60	05
12	Wheat	Rabi 2020-21	Irrigated	-do-	Low	Medium	Medium	Paddy	12-18.11.20	22.04.21 to 05.05.21	60	05
13	Paddy	Kharif 2021	Irrigated	-do-	Low	Medium	Medium	Green gram	15-28.06.21	25-30.10.21	592	17
14	Wheat	Rabi 2021-22	Irrigated	-do-	Low	Medium	Medium	Paddy	20-21.11.21	-	12	02
15	Berseem	Rabi 2020-21	Irrigated	-do-	Low	Medium	Medium	Paddy	22.10.2020	07.12.2020 to 15.04.2021	60	05
16	Berseem	Rabi 2021-22	Irrigated	-do-	Low	Medium	Medium	Paddy	24-28.10.2021	Start from 12.12.21	12	02

Technical Feedback on the demonstrated technologies

S N	Crop	Feed Back
1	Wheat	For weed control in wheat Clodinofop 9% + Metribuzine 20% found effective to control broad as well as narrow leaved and grassy weeds.
2	Mustard	Variety RH-0749 performed very good in case of yield and oil content.
3	Wheat	Field preparation through mulcher after harvesting of paddy shows significant reduction in cost of field preparation and effective for paddy stubble management
4	Black gram	Variety Indra urd -1 could not perform better and has very high infestation of YMV.

Farmers' reactions on specific technologies

S N	Crop	Feed Back
1	Wheat	Clodinofop 9% + Metribuzine 20% found effective for total weed control in wheat.
2	Paddy	Phenoxulm @50 ml /acre is effective as and when applied 10-15 DAT.
3	Wheat	Sowing of wheat through ferti seed drill reduces no. of weeds in crop field.

Extension and Training activities under FLD

SN	Activity	No. of activities organized	Number of participants	Remarks
1	Field days	11	322	-
2	Farmers Training	5	118	-
3	Media coverage	-	-	-
4	Training for extension functionaries	02	40	-

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops (Cluster demonstration):

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Mustard																		
Rabi 2020-21	ICM	Package of agronomy practices for max. production	RH-0749	50	20.0	18.8	15.5	17.5	15.2	15.1	39500	118750	79250	3.00:1	37800	103800	66000	2.70:1
Rabi 2021-22	ICM	Package of agronomy practices for max. production	RH-0749	25	10.0	**Result awaited**												

Frontline demonstration on pulse crops (Cluster demonstration)

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Green gram (Moong)																		
Zaid 2021	ICM	Package of agronomy practices for max. production	IPM-205-7	25	10.0	10.8	8.3	9.25	8.20	12.8	42325	53650	11325	1.30:1	39825	47570	7735	1.20:1
Black gram (Urd)																		
Kharif 2021	ICM	Package of agronomy practices for max. production	IPM-205-7	25	10.0	9.50	7.20	8.50	7.40	14.9	31500	63750	32250	2.00:1	29800	55500	25700	1.80:1

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Avg.												
Wheat timely sown																			
Rabi 2020-21	Weed mgt.	ACM-9 (Clodinofob 9% + Matribuzine 20% @ 240 gm/acre)	10	4.0	52.00	46.00	48.6	43.8	11.0	No. of weeds – 8/m^2	No. of weeds – 19./m^2	68500	115985	47485	1.70:1	67200	104505	37305	1.50:1
Paddy																			
Kharif 2021	Weed mgt.	Demonstration of new weedicide (Phenoxulum @ 50ml/acre)	10	4.0	45.5	41.2	42.8	36.5	17.2	No. of weeds – 9/m^2	No. of weeds – 18./m^2	85300	195200	109900	2.30:1	82800	171500	88700	2.00:1
Wheat timely sown																			
Rabi 2021-22	Varietal Evaluation	HYV demonstration (Variety HD-3226)	10	4.0	**Result awaited**														
Rabi 2021-22	Varietal Evaluation	HYV demonstration (Var.- DBW-0187)	10	4.0	**Result awaited**														
Fodder Crop																			
Berseem																			
Rabi 2020-21	Fodder production	HYV for max production BL-10	05	0.5	825	755	782	685	14.2	No. of cutting – 05	No. of cutting – 03	21800	93840	72040	4.3:1	19500	75350	55850	3.9:1
Rabi 2021-22	Fodder production	HYV for max production BL-10	10	1.0	**Result awaited**														






Some Good Quality Cluster FLD & FLD Photographs

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour/,l/h)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labor	Irrigation	Total
Ferti Seed Drill (Rabi 2020-21)	Wheat	Seeds sowing by seed drill	10	4.0	Tillers/m^2 Yield (q/h)	178 48.0	121 43.6	10.0	-	6	5	11	-	3300.00	-	3300.00
Mulcher (Rabi 2020-21)	Wheat	Mechanization for field preparation of wheat after paddy through mulcher	51	20.4	Energy saving Yield (q/h)	7.5 l 52.2 q	12.0 l 48.8	7.0	5	6	-	11	360.00	3300.00	-	3660.00

Zero till ferti seed drill (Rabi 2020-21)	Wheat	Sowing of wheat through zero till ferti seed drill	12	4.8	Energy saving Yield (q/h)	7.5 l 49.5 q	15.0 l 48.8 q	1.4	3	6	-	9	600.00	2700.00	-	3300.00
Laser leveler (Kharif 2021)	Paddy	Importance of levelling through laser leveller	10	4.0	Irrigation cost	4	6	-33.0	-	2	-	2	-	600.00	800.00	1400.00
Zero till ferti seed drill (Rabi 21-22)	Wheat	Sowing of wheat through ferti seed drill	10	4.0	Result awaited											




Photographs of FLD conducted under Farm implements

FLD on Livestock

1. **Feeding of mineral mixture and deworming to enhance milk production and regulate normal fertility (Zaid 2021 & Rabi 2021-22)**

Enterprise	Type of animal	Name of the technology	No. of animals	No. of demonstration	Fertility parameter conception after parturition (60 days)		Milk yield parameter Additional milk yield (l/day)	
					Demo	Check	Demo	Check
Dairy husbandry	Buffalo	Use of mineral mixture @ 50 gm/day/animal + deworming 2-3 times in a year	10	10	09	05	9.00	7.75
Dairy husbandry	Buffalo	Use of mineral mixture @ 50 gm/day/animal + deworming 2-3 times in a year	10	10	**Result awaited**			

2. Control of Mastitis disease in milching animals

Enterprise	Type of animal	Name of the technology	No. of animals	No. of demonstration	No. of animal cured		Percent cured
					Demo	Check	
Dairy husbandry	Milching animals	Use of mastiout plus kit	15	15	14	-	93.33

III. Training Programme (Jan to December, 21)

Farmers' Training including sponsored training programmes (On campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	18	-	18	2	-	2	20	-	20
Resource Conservation Technologies										
Cropping Systems	1	18	-	18	2	-	2	20	-	20
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	2	36	-	36	4	-	4	40	-	40
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	**4**	**72**	**-**	**72**	**8**	**-**	**8**	**80**	**-**	**80**
II Horticulture										
a) Vegetable Crops										
Production of low value and high volume crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
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 (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										

e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production & mgt.										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	3	42	12	54	4	2	6	46	14	60
Feed & fodder technology	1	16	2	18	2	-	2	18	2	20
Production of quality animal products										
Others (pl specify)										
Total	**4**	**58**	**14**	**72**	**6**	**2**	**8**	**64**	**16**	**80**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery reduction technologies										

Rural Crafts										
Women and child care										
Others (pl specify)										
Total										
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements	4	72	-	72	8	-	8	80	-	80
Small scale processing and value addition										
Post Harvest Technology										
Others (Use of advanced agricultural implements)										
Total	**4**	**72**	**-**	**72**	**8**	**-**	**8**	**80**	**-**	**80**
VII Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total										
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
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 (pl specify)										
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										
Mushroom Production										
Apiculture										
Others (pl specify)										
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 (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**12**	**202**	**14**	**216**	**22**	**2**	**24**	**224**	**16**	**240**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	**No. of courses**	**Participants**								
		Others			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification	1	18	-	18	2	-	2	20	-	20
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management	1	18	-	18	2	-	2	20	-	20
Integrated Crop Management	5	90	-	90	10	-	10	100	-	100
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs	1	18	-	18	2	-	2	20	-	20
Soil sampling										
Total	**8**	**144**	**-**	**144**	**16**	**-**	**16**	**160**	**-**	**160**
II Horticulture										
a) Vegetable Crops										
Production of low value and high volume crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
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 (pl specify)										
Total (b)										

c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (Production of low value and high valume crops)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management	4	76	-	76	4	-	4	80	-	80
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	2	27	5	32	5	3	8	32	8	40
Feed & fodder technology	2	26	5	31	8	1	9	34	6	40
Production of quality animal products										
Others (pl specify)										
Total	**8**	**129**	**10**	**139**	**17**	**4**	**21**	**146**	**14**	**160**

V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total										
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems	1	18	-	18	2	-	2	20	-	20
Use of Plastics in farming practices										
Production of small tools and implements	1	18	-	18	2	-	2	20	-	20
Repair and maintenance of farm machinery and implements	6	108	-	108	12	-	12	120	-	120
Small scale processing and value addition										
Post-Harvest Technology										
Others (pl specify)										
Total	**8**	**144**	**-**	**144**	**16**	**-**	**16**	**160**	**-**	**160**
VII Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total										
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
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 (pl specify)										
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										
Mushroom Production										
Apiculture										
Others (pl specify)										
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 (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**24**	**417**	**10**	**427**	**49**	**4**	**53**	**466**	**14**	**480**

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area	**No. of courses**	**Participants**								
		Others			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
I Crop Production										
Weed Management	1	18	-	18	2	-	2	20	-	20
Resource Conservation Technologies										
Cropping Systems	1	18	-	18	2	-	2	20	-	20
Crop Diversification	1	18	-	18	2	-	2	20	-	20
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management	1	18	-	18	2	-	2	20	-	20
Integrated Crop Management	7	126	-	126	14	-	14	140	-	140
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs	1	18	-	18	2	-	2	20	-	20
Soil sampling										
Total	**12**	**216**	**-**	**216**	**24**	**-**	**24**	**240**	**-**	**240**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										

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 (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (Production of low value and high valume crops)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										

Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management	4	76	0	76	4	0	4	80	0	80
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	5	69	17	86	9	5	14	78	22	100
Feed & fodder technology	3	42	7	49	10	1	11	52	8	60
Production of quality animal products										
Others (pl specify)										
Total	**12**	**187**	**24**	**211**	**23**	**6**	**29**	**210**	**30**	**240**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total										
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems	1	18	-	18	2	-	2	20	-	20
Use of Plastics in farming practices										
Production of small tools and implements	1	18	-	18	2	-	2	20	-	20
Repair and maintenance of farm machinery and implements	10	180	-	180	20	-	20	200	-	200
Small scale processing and value addition										
Post Harvest Technology										
Others (Use of advanced agricultural implements)										
Total	**12**	**216**	**-**	**216**	**24**	**-**	**24**	**240**	**-**	**240**
VII Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total										

VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
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 (pl specify)										
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										
Mushroom Production										
Apiculture										
Others (pl specify)										
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 (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**36**	**619**	**24**	**643**	**71**	**6**	**77**	**690**	**30**	**720**

Training for Rural Youths including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		M	Fe	T	Ma	Fe	T	M	Fe	T
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs	1	8	-	8	2	-	2	10	-	10
Planting material production										
Vermi-culture	1	8	-	8	2	-	2	10	-	10
Mushroom Production	1	8	-	8	2	-	2	10	-	10
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements	2	16	-	16	4	-	4	20	-	20
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts (Tie & dye)										
Production of quality animal products										
Dairying	2	10	2	12	4	4	8	14	6	20
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Income generation activities for employment of rural women (Printing & Designing)										
TOTAL	**7**	**50**	**2**	**52**	**14**	**4**	**18**	**64**	**6**	**70**

Training for Rural Youths including sponsored training programmes (Off campus) - NA

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		M	Fe	T	Ma	Fe	T	M	Fe	T
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										

Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + off campus)

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		M	**Fe**	**T**	**Ma**	**Fe**	**T**	**M**	**Fe**	**T**
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs	1	8	-	8	2	-	2	10	-	10
Planting material production										
Vermi-culture	1	8	-	8	2	-	2	10	-	10
Mushroom Production	1	8	-	8	2	-	2	10	-	10
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements	2	16	-	16	4	-	4	20	-	20
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts (Tie & dye)										
Production of quality animal products										
Dairying	2	10	2	12	4	4	8	14	6	20
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Income generation activities for employment of rural women (Printing & Designing)										
TOTAL	**7**	**50**	**2**	**52**	**14**	**4**	**18**	**64**	**6**	**70**

Training programmes for Extension Personnel including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		M	Fe	T	M	Fe	T	M	Fe	T
Productivity enhancement in field crops	1	20	-	20	-	-	-	20	-	20
Integrated Pest Management										
Integrated Nutrient management	2	40	-	40	-	-	-	40	-	40
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements	2	40	-	40	-	-	-	40	-	40
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	2	40	-	40	-	-	-	40	-	40
Livestock feed and fodder production	2	40	-	40	-	-	-	40	-	40
Household food security										
Any other (pl.specify)										
ICM	1	20	-	20	-	-	-	20	-	20
Water Mgt.	1	20	-	20	-	-	-	20	-	20
TOTAL	**11**	**220**	**-**	**220**	**-**	**-**	**-**	**220**	**-**	**220**

Training programmes for Extension Personnel including sponsored training programmers (off campus) - NA

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		M	Fe	T	M	Fe	T	M	Fe	T
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
ICM										
Water Mgt.										
TOTAL										

Training programmes for Extension Personnel including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		M	Fe	T	M	Fe	T	M	Fe	T
Productivity enhancement in field crops	1	20	-	20	-	-	-	20	-	20
Integrated Pest Management										
Integrated Nutrient management	2	40	-	40	-	-	-	40	-	40
Rejuvenation of old orchards										
Protected cultivation technology										

Production and use of organic inputs										
Care and maintenance of farm machinery and implements	2	40	-	40	-	-	-	40	-	40
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	2	40	-	40	-	-	-	40	-	40
Livestock feed and fodder production	2	40	-	40	-	-	-	40	-	40
Household food security										
Any other (pl.specify)										
ICM	1	20	-	20	-	-	-	20	-	20
Water Mgt.	1	20	-	20	-	-	-	20	-	20
TOTAL	**11**	**220**	**-**	**220**	**-**	**-**	**-**	**220**	**-**	**220**

Table. Sponsored training programmes

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		M	**Fe**	**T**	**M**	**Fe**	**T**	**M**	**Fe**	**T**
Crop production and management										
Increasing production and productivity of crops										
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (Pl specify)										
Total										
Post-harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (Pl specify)										
Total										
Agricultural Extension										
Capacity Building and Group Dynamics										
Others (pl. specify)										
Total										
GRAND TOTAL										

Table. Sponsored training programmes

Area of training	No. of Courses	No. of participants								
		General			SC/ST			Grand Total		
		M	Fe	T	M	Fe	T	M	Fe	T
Farmers Technical Trainings (FTT)	01	39	6	45	5		5	44	6	50
Trainings under Biotech Kisan Hub Project	08	250	22	272	30	18	48	280	40	320
GRAND TOTAL	**09**	**289**	**28**	**317**	**35**	**18**	**53**	**324**	**46**	**370**

Name of sponsoring agencies involved

SN	Sponsoring agency name
1	State Govt. through university
2	NGO (FARMER Biotech Kisan Hub Ghaziabad)

Details of vocational training programmes carried out by KVKs for rural youth

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post-harvest technology and value addition										
Value addition										
Others (Post- harvest processing and packaging of fruits & vegetables.)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (Livestock prodn and mgt.)										
Total										
Income generation activities										
Vermi composting										
Production of bio-agents, bio-pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm machinery										
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Others (Orchard mgt. & maintenance)										
Total										
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total										

Details of training programmes attached in **Annexure -I**

Training Photographs

UP Diwas 24-26 January, 2022

Kisan Mela and Exhibition 20.01.2021

FSI 03.03.2021

FSI 25.08.2021

Visit of Hon'ble Vice Chancellor sir and committee members at KVK for Farm reclamation

Photographs Skill Training "Quality Seed Producer" under Kaushal Vikas Prashikshan

Photographs Skill Training “Organic Producer” under Kaushal Vikas Prashikshan

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	75	412	22	**434**
Diagnostic visits	8	162	8	**170**
Field Day	14	308	52	**360**
Group discussions	01	30	2	**32**
Kisan Ghosthi	10	347	12	**359**
Kisan Mela cum exhibition	01	312	68	**380**
Scientists' visit to farmers field	68	408	8	**416**
Farmers visit to KVK	48	466	22	**488**
Ex-trainees Sammelan	-	-	-	**-**
Method Demonstrations	01	12	06	**18**
Celebration of important days	03	202	12	**214**
Exposure visits	-	-	-	**-**
Lecture delivered	22	335	06	**341**
Total	**251**	**2994**	**218**	**3212**

Details of other extension programmes

Particulars	Number
Extension Literature	03
Newspaper coverage	03
Research Paper	-
Popular articles	02
TV Talks	01
Leaflet	
Technical Article	-
Technical Report	04
Total	**13**

Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Live-stock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
GB Nagar	Text only	29	11	5	5	22	12	84
	Voice only	32	4	4	9	18	9	76
	Voice & Text both	24	12	7	12	18	15	88
	Total Messages	**85**	**27**	**16**	**26**	**58**	**36**	**248**
	Total farmers Benefitted	**112**	**42**	**51**	**43**	**72**	**69**	**389**

Desmonstate desi breed – Gir at centre

Kisan Diwas

Organize World Women Day

Field day Biotech under Kisan Hub project

Training programme Biotech under Kisan Hub project

FTT

BEDF awareness programme

Assessment of trainees under ASCI (Organic Growers)

Vermi Compost training

Constitution day

World Milk Day

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS – Not Carried out

Number of KVKs organized Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies			
	Lectures organised			
	Exhibition			
	Film show			
	Fair			
	Farm Visit			
	Diagnostic Practicals			
	Distribution of Literature (No.)			
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)			
	Bio Product distribution (Kg)			
	Bio Fertilizers (q)			
	Distribution of fingerlings			
	Distribution of Livestock specimen (No.)			
	Total number of farmers visited the technology week			

VI. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals						
Oilseeds						
Pulses						
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others						
Total						

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total						

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilizer's				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others				
Total				

Table: Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Total				

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Note: - Funds needed for purchase of instruments and infrastructure development

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil				-
Water				
Plant				
Manure				
Others (pl.specify)				
Total				-

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
KVK, G.B. Nagar	Schedule on 17th Jan, 2022 as postponed of 21Dec, 2021.

IX. NEWSLETTER/MAGAZINE

Name of News letter	No. of Copies printed for distribution

X. PUBLICATIONS

Category	Number
Research Paper	02
Technical bulletins	-
Technical Report	04

XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM - NA

Activities conducted				
No. of Training programmes	**No. of Demonstration s**	**No. of plant materials produced**	**Visit by farmers (No.)**	**Visit by officials (No.)**

XII. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL/HAILSTORM/COLD WAVES ETC

Introduction of alternate crops/varieties

Crops/cultivars	Area (ha)	Extent of damage	Recovery of damage through KVK initiatives if any
Total	-	-	-

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No. of participants
Total		

Animal health camps organized

Number of camps	No. of animals	No. of farmers
Total		

Seed distribution in drought hit states

Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total			

Large scale adoption of resource conservation technologies

Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Total		

Awareness campaign

	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers
Total												

XIII. DETAILS ON HRD ACTIVITIES - NA

A. HRD activities organized in identified areas for KVK staff by the Directorate of Extension

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved

B. HRD activities organized in identified areas for KVK staff by Zonal Project Directorate

Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved

XIV. CASE STUDIES (CASE STUDIES MAY BE GIVEN IN DETAIL AS PER THE FOLLOWING FORMAT)

Each Zone should propose a minimum of three case studies with good action photographs (with captions on the backside of the hard copy of the photos) on the following topics

a) ***Effective popularization on a larger scale of any one FLD technology and its role in transformation of district agriculture with respect to that particular crop or enterprise***
b) ***Performance of the end results of any one technology assessed, its refinement if any and its impact in district agriculture with respect to that crop or enterprise***
c) ***Effect of production and supply of seeds and planting material / animal breed / or bio-product and its impact on district agriculture with respect to that crop/ enterprise/ bio-product***

The general format for preparing the above case studies are furnished below

Name of the KVK

TITLE

Introduction

KVK intervention

Output

Outcome
Impact

XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE (2021) - NA

A. Details on ATICs

S. No	Name of the ATIC	Name of the Host Institute	Name of the ATIC Manager

B. Details on Farmer's visit (Jan 2021 to December 2021)

S. No	Purpose of visit	Number of farmer's visited
01	Technology Information	
02	Technology Products	
03	Others if any pl. specify	

C. Facilities in the ATIC which are in operation

S. N.	Particulars	Availability (Please √ mark)	Number of ATICs
01	Reception counter		
02	Exhibition / technology museum		
03	Touch screen Kiosk		
04	Cafeteria		
05	Sales counter		
06	Farmer's feedback register		
07	Others if any (please specify)		

D. Technology information provided

D.1. Details on technology information (Jan 2021 to December 2021)

S. No	Information category	Number of ATICs	Total number of farmers benefitted	Category of information						
				Varieties / hybrids	Pest mgt.	Disease mgt	Agro-techniques	Soil and water conservation	Post Harvest technology and Value addition	Animal Husbandry and fisheries
01	Kisan Call Centre / other Phone calls from farmers									
02	Video shows									
03	Letters received									
04	Letters replied									
05	Training to farmers / technocrats / students									
06	Others pl. specify									

D.2 . Publications (Print & Electronic media) (Jan – Dec., 2021)

S. N.	Particulars	Number sold	Revenue generated in Rs.	Number of farmers benefited
01	Books			
02	Technical bulletins			
03	Technology Inventory			
04	CDs			
05	DVDs			
06	Video films			
07	Audio CDs			
08	Others if any			

E. Technology Products provided (Jan 2021 to December 2021)

S. No	Particulars	Quantity	Unit of quantity	Value in Rs.	Number of farmers benefited
01	Seeds		Quintal		
02	Planting materials		Numbers		
03	Livestock		Numbers		
04	Poultry birds		Numbers		
05	Bio-products		Quintals		
06	Others pl. specify				

F. Technology services provided (Jan 2021 to December 2021)

S. No	Particulars	Number of farmers benefited
01	Soil and water testing	
02	Plant diagnostics	
03	Details about the services to line Departments	
04	Others if any (please specify)	

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION

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Annexure 'A'

DETAILS OF TRAINING PROGRAMMES

1.1 On-Campus Training for Practicing farmers & Farm Women

Subject	Title of the training programme	Date	Duration in days	G. Total
Crop Production	Cultivation of summer moongafter harvesting of wheat	17.02.2021	1	20
	Importance of summer ploughing & green manuring in R-W, cropping system.	22.04.2021	1	20
	Weed mgt in transplanted paddy	08.07.2021	1	20
	Advanced in Rabi pulses production	06.10.2021	1	20
Live stockprodn. & Mgt.	Infertility management in dairy animals	07.01.2021	1	20
	H.S. disease: Its symptom and preventive measures.	19.05.2021	1	20
	Importance of mineral and vitamins in animal feed.	08.07.2021	1	20
	F.M.D.: Its symptoms and preventive measures.	30.10.2021	1	20
Agri. Engg.	Operation and maintenance of electric moter pump & diesel pump.	21.01.2021	1	20
	Safe use of thresher during operation	19.04.2021	1	20
	Use of Rotavator as puddler for paddy	07.07.2021	1	20
	Use of mulcher to reduce paddy straw burning	20.10.2021	1	20

1.2 Off Campus Training for Practicing farmers & Farm Women

Subject	Title of the training programme	Date	Duration in days	G. Total
Crop production	Intercropping of summer pulses in sugarcane	21.01.2021	1	20
	Advances in summer pulses.	10.02.2021	1	20
	Agronomic practices for healthy paddy nursery mgt.	28.04.2021	1	20
	Improved practices in transplanted rice	20.05.2021	1	20
	Production techniques of black gram in kharif	11.08.2021	1	20
	Advances in Toria /mustard cultivation	08.09.2021	1	20
	Mgt. of paddy crop resides in- situ & ex-situ.	20.10.2021	1	20
	Production practices of timely sown wheat.	05.11.2021	1	20
Live stockprodn. & Mgt.	Mastitis in milch animals: Its symptoms and controls	04.02.2021	1	20
	Use and importance o mineral mixture.	15.02.2021	1	20
	Importance of AI & mgt. of pregnant animals	12.06.2021	1	20
	Urea treatment of wheat straw for improving nutritive value	23.06.2021	1	20
	Vaccination and deworming schedule in dairy animals	30.07.2021	1	20
	Control measures of Endo-Ecto parasitic infestation	28.08.2021	1	20
	Care and feeding of newly born calf	07.11.2021	1	20
	Symptoms of heat and time of insemination in dairy animals	03.12.2021	1	20
Agri. Engg.	Save water through sprinkler irrigation.	10.02.2021	1	20
	Save fuel during operation of diesel pump.	10.03.2021	1	20
	Repair & maintenance of plant protection equipments	22.04.2021	1	20

	Use and importance of Reversible MB Plough	09.06.2021	1	20
	Methods of water harvesting	07.08.2021	1	20
	Operation and maintenance of micro-irrigation system.	10.09.2021	1	20
	Importance of ferti seed drill in wheat sowing.	16.11.2021	1	20
	Low cost of sowing wheat by using happy seeder	06.11.2021	1	20

1.3 On campus Income and Employment Generating Training Programmes for Rural Youths

Crop / Enterprise	Training title*	Month	Duration (days)	G. Total
Crop Prodn.	Vermi compost production technology	15-19.06.21	5	10
	Production of organic inputs at farm level	20-24.07.21	5	10
	Production technology of oyster mushroom through paddy residue.	09-13.11.21	5	10
Animal husbandry	Scientific dairy farming	17-21.08.21	5	10
		14-18.12.21	5	10
Ag. Engg.	Importance of laser land levellor	15-20.06.21	5	10
	Maintenance of farm machinery implements	07-12.12.21	5	10

1.4 In-service Extension worker's Training Programs

Clientele	Title of the training programme	Date	Duration in days	G. Total
Crop Production	Importance & use of water soluble and nano fertilizers.	12.01.2021	1	20
	Soil testing methods & balance nutrient mgt.	12.05.2021	1	20
	Importance & technique of water conservation	25.08.2021	1	20
	Advances in mustard cultivation	14.10.2021	1	20
Livestock Prodn& Mgt.	Urea treatment of wheat straw for improving nutritive digestive value.	29.01.2021	1	20
	Infertility management in dairy animals	26.05.2021	1	20
	Use and importance of mineral mixture.	22.09.2021	1	20
	Factor affecting milk yield (quantity) and milk composition.	25.11.2021	1	20
Agriculture Engineering	Use of sprinkler and drip irrigation.	17.03.2021	1	20
	Use of seed drill & Happy Seeder for wheat sowing.	29.09.2021	1	20
	Use of various implements for crop residue mgt.	08.10.2021	1	20