PROFORMA FOR PREPARATION OF ANNUAL REPORT (January-2020-December-2020)

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	81	1077	337	1414
Rural youths	03	32	31	63
Extension functionaries	02	40	02	42
Sponsored Training				
Vocational Training	02	28	0	28
Total	88	1177	370	1547

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	366	170	
Pulses	60	30	
Cereals	118	51.2	
Vegetables	20	04	
Other crops	40	14	
Hybrid crops			
Total	604	269.2	
Livestock & Fisheries			
Other enterprises			
Total			
Grand Total	604	269.2	

3. Technology Assessment

Category	No. of Technology	No. of Trials	No. of Farmers
	Assessed		
Technology Assessed			
Crops	10	10	100
Livestock			
Various enterprises			
Total	10	10	100

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	243	2833
Other extension activities	104	
Total	347	2 833

5. Mobile Advisory Services

			Type of Messages					
Name of KVK	Message Type	Crop	Livestoc k	Weather	Marke- ting	Aware -ness	Other enterpris e	Total
	Text only	31		01		26	06	64
Rampura- Rewari	Voice only							
	Voice & Text both							
	Total Messages	31		01		26	06	64
	Total farmers Benefitted	235818 5		76082		19779 58	456753	48689 78

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)		
Planting material (No.)	4820	2410
Bio-Products (kg)	1625	9750
Livestock Production (No.)		
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples		No. of Beneficiaries	Value Rs.		
Soil	465	398	4650		
Water	456	393	4560		
Plant					
Total	921	791	9210		

8. HRD and Publications

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

DETAIL REPORT OF APR-2020

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail		
Krishi Vigyan Kendra, Rampura–Rewari, 123401	Office	FAX	bbakvkrr@gmail.com		
(Haryana)	01274-222401				

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

Address	Telepl	none	E mail
	Office	FAX	
Shri Bhagwat Bhakti Ashram, Rampura –Rewari, 123401 (Haryana)	01274-222401		

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

Name	Telephone / Contact					
	Residence	Email				
Dr. Kapur Singh	01274-224300	9416475793	kapurrewari@gmail.com			

1.4. Year of sanction: 1983

1.5. Staff Position (as on 31st December, 2020)

SI. No.	Sanctioned post	Name of the incumbent	Design-ation	Discip-line	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Perman- ent /Temp- orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Programme Coordinator	Dr. Kapur Singh	Programme Coordinator	Plant Pathology (Ph D)	37400- 67000+ 9000	72291	02.02.01	Permanent	OBC	9416475793	52	kapurrewari @gmail.com
2	Subject Matter Specialist	Sh. V. J. Singh	Subject Matter Specialist	Agronomy (M. Sc.)	15600- 39100+ 5400	39571	10.10.95	Permanent	Other	9416214811	53	jeetm67 @gmail.com
3	Subject Matter Specialist	Dr. Pramod Kumar	Subject Matter Specialist	Horticulture (Ph D)	15600- 39100+ 5400	32716	24.07.95	Permanent	OBC	8930820968	54	pkyrnm@ gmail.com
4	Subject Matter Specialist	Vacant	Subject Matter Specialist	Animal Sci.	15600- 39100+ 5400							
5	Subject Matter Specialist	Vacant	Subject Matter Specialist	Agri. Extn.	15600- 39100+ 5400							
6	Subject Matter Specialist	Er. Raj Kumar	Subject Matter Specialist	Agri. Engg. (M. Tech.)	15600- 39100+ 5400	27399	24.04.2011	Permanent	OBC	9416926163	39	rajguru567 @gmail.com
7	Subject Matter Specialist	Anil Kumar Yadav	Subject Matter Specialist	Soil science (M. Sc.)	15600- 39100+ 5400	26601	02.07.12	Permanent	OBC	9813719455	40	anilyadav 878@ gmail. com
8	Programme Assistant	Smt. Rajkumari	Programme Assistant	Home Science B.sc (Home Sc.)	9300- 34800+ 4200	28076	01.05.92	Permanent	OBC	9996037744	49	rajbhatotiya @rediffmail. com
9	Computer Programmer	Smt. Ritu Yadav	Computer Programmer	Official MCA (Comp. Sc.)	9300- 34800+ 4200	17615	11.03.11	Permanent	OBC/PH	9466517139	44	rituyadav .yadav122@ gmail.com
10	Farm Manager											
11	Accountant / Superintendent	Shri Dilip Kumar	Accountant / Superintendent	Official (B.com)	9300- 34800+ 4200	22481	30.11.05	Permanent	Other	8901094242	43	dilipkumar kvk@gmail. com
12	Stenographer	Sh. Davender Kumar	Stenographer	Official (Matric)	5200- 20200+ 2400	14132	01.04.95	Permanent	OBC	9466885450	49	sendavender @gmail.com
13	Driver	Vaccant	Driver	Driver	5200- 20200+ 2000							
14	Driver	Sh. Hariom	Driver	Driver (Middle)	5200- 20200+ 2000	14132	01.06.95	Permanent	OBC	8930565377	55	
15	Supporting staff	Vaccant	Supporting staff	Supporting Staff	5200- 20200+ 1800							
16	Supporting staff	Inderpal	Supporting staff	Supporting Staff (Middle)	5200- 20200+ 1800	7210	01.12.2019	Permanent	OBC		52	

1.6. Total land with KVK (in ha)

S.	Item	Area (ha)
No.		, ,
1	Under Buildings	2.8
2.	Under Demonstration Units	2.0
3.	Under Crops	13.0
4.	Orchard/Agro-forestry	3.0
5.	Others (specify)	
	Total	20.8

1.7. Infrastructural Development:

A) Buildings

		Source	Stage					
S. Name of the Table of		of	Complete			Incomplete		
No.	Name of building	funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	-	496.4		I	1	
2.	Farmers Hostel	-do-		321.2				
3.	Staff Quarters (6)	-do-		318.0				
	1	-do-		79.5				
	2	-do-		79.5				
	3	-do-		79.5				
	4	-do-		79.5				
	5							
4.	Demonstration Units (2)	-do-						
		-do-						
5	Fencing	-do-						
6	Rain Water harvesting system	-do-						
7	Threshing floor					-		
8	Farm godown							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep	31.3.2006	4,98,741.00	19005 km	Condemned
Tractor	30.3.1998	2,85,000.00	12742 hrs	Condemned

C) Equipments & AV aids

AV aids LCD Projector Camera	2007 2016	(Rs.) 89,836/-	status Good
,		89,836/-	Good
,		0,000	CIOOU
Camera	2016	25.000/	
		25,000/-	Good
Colour T.V.	2001	22,000/-	Good
Microscope	2010	99,500/-	Good
Refrigerator	2010	40,000/-	Good
Office Equipment			
Computer Dell -5	2008	3,00,000/-	Good
Laptop	2007	30,680/-	Good
Photostat machine	2010	99,950/-	Good
Computer etc.(NATP)	2010	28,000/-	Good
Fax machine with printer	2010	12,590/-	Good
Auto clave Vertical	2010	60,000/-	Good
Bodinculator	2010	89,000/-	Good
Laminar Air flow	2010	64,000/-	Good
Micro oven	2010	5,300/-	Good
Hand Operated Aonla pickle machine	2013	5,262/-	Good
Soil Testing kit	2015	75,000/-	Good
Water Cooler with RO	2016	50,000/-	Good
GPS 9645 with STI	2016	19,687/-	Good
Farm equipments		1	
Cultivator	1990	7,500/-	Good
Thresher	2001	50,000/-	Good
ZT machine	2012	47,500/-	Good

1.8. A). Details SAC meeting* conducted in the year

SI.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1	16.12.2020	Hon'ble Rao Inderjit Singh ji Ministry of State for Statistics, Programme Implementation & Planning(Independent Charge), and Chairman, S.A.C., KVK, Rampura-Rewari		
		Dr. Joginder Singh, Rep. Director of Extension Education, CCSHAU, Hisar		
		Dr. Vikram Yadav Regional Director, Regional Research Station, CCS,HAU, Bawal (Distt Rewari)		
		Dr. Deepak Yadav Rep. Deputy Director Agriculture, Rewari		
		Dr. Satbir Sharma District Horticulture Officer, Rewari		
		Dr. Devender Verma Deputy Director Animal Husbandry, Rewari		
		Sh. Mahesh Kumar Rep. District Fishery Officer, Rewari		
		Shri Jagdish Parihar, District Development Manager (NABARD) House No.G-6, Govt. Employee Society, Sec.3, Rewari		
		Rao Ram Singh Mrs. Kusum Yadav		
		Dr. Kapur Singh Member Secretary		

2. DETAILS OF DISTRICT (2020)

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

S. No	Farming system/enterprise
1.	Agriculture + Animal Husbandry
2	Agricultural + Animal Husbandry + Horticulture

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

S. No	Agro-climatic Zone	Characteristics
1	Western Zone (HR 2)	Climate: The district falls under hot and
		semi-arid climatic zone with extremes of
		temperature (2.0°C-47°C) in months of
		December & January are of severe cold
		and the months of May & June are of
		bitter summer. Because of the touch of
		Rajasthan this district faces dusty storms
		in summer season Average rainfall was
		300-500 mm.
		Soil Type: The Soil texture of the district
		varies from sandy to loamy sand. The
		district has around 90.00% soils under
		loamy-sand texture. Being coarse
		textured the soils are poor in water as
		well as in nutrient retention. In the
		district, 99% soils are low in organic
		carbon, whereas 50.8% soils are low in
		P, but 90 % soils are in medium to high
		category of K. The soils are also deficient
		in S and micro-nutrients Zn and Fe to the
		extent of 30, 70 and 10 % respectively.
2	Agro ecological situation	Characteristics
A.	AES – I (Comprising Jatusana & nahar	The soils are loamy-sand soil having
	Block)	restricted tube-well water irrigation pH
	,	ranging from 8-10 with poor quality of
		irrigation water. The soils are generally
		low in N, low to medium in P&K and low
		to medium in Zn & Fe etc. the main
		cropping systems are Bajra- wheat and
		bajra-mustard.
B.	AES – II (Comprising Bawal, Khol and Rewari	The soils are sandy to loamy sand
	Block)	having moderate tube-well irrigation. The
		soils are low in N, medium to high in P&K
		and low to high in Zn, Fe and S etc. The
		main cropping system is Bajra-wheat,
1		
		Guar-Wheat and Guar-Mustard.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Loamy sand	The soils are loamy-sand soil having restricted tube-well water irrigation pH ranging from 8-10 with poor quality of irrigation water. The soils are generally low in N, low to medium in P&K and low to medium in Zn & Fe etc. the main cropping systems are Bajrawheat and bajramustard.	108000
2.	Sandy Ioam	The soils are sandy to loamy sand having moderate tube-well irrigation. The soils are low in N, medium to high in P&K and low to high in Zn, Fe and S etc. The main cropping system is Bajra-wheat, Guar-Wheat and Guar-Mustard.	43000

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

S. No	Crop	Area (ha)	Production (QtI)	Productivity (Qtl /ha)
1	Wheat	46000	2250000	48.91
2	Mustard	66000	1510000	22.87
3	Barley	1000	50000	50.00
4	Paddy	2000	50000	25.00
5	Bajra	67000	144.6	21.58
6	Cotton			

2.5. Weather data

Month	Rainfall (mm)	Temperature ⁰ C		Relative Humidity (%)
		Maximum	Minimum	
January	7.00	20.90	3.40	68.00
February	11.40	27.30	4.30	59.50
March	59.40	31.60	9.40	63.00
April	28.40	36.80	13.50	54.00
May	7.60	44.00	21.20	36.40
June	130.00	40.80	22.40	54.00
July	46.20	38.30	22.00	53.75
August	76.70	35.00	23.70	80.00
September	20.50	32.80	22.20	65.50
October	9.20	34.20	13.00	42.00
November	1.40	24.60	9.00	49.50
December		19.30	2.60	61.50

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

Category	Population	Production	Productivity
Cattle			
Crossbred	36674		
Indigenous	46522		
Buffalo	237615		
Sheep			
Crossbred	1014		
Indigenous	8684		
Goats	23237		
Pigs			
Crossbred	1781		
Indigenous	2688		
Rabbits	26		
Poultry			
Hens	1654		
Desi	1099		
Improved	555		
Ducks	34		
Turkey and others	02 & 4013		

Category	Area	Production	Productivity
Fish	514.8 ha	3385 tonns	6.57 tonns/ha
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

2.7 Details of Operational area / Villages (2020)

SI. No	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified Identified Thrust Areas
1		Khol	Nimoth, Manethi, Dhawana, Khaleta,Ahrod Dhani Kolana	Bajra, guar, mustard, wheat, dairying, ber, citrus, marigold, bottle guard, okra, brinjal	 Unbalanced use of fertilizer & high doses of pesticides, problematic soil & water ICM,IPM, INM according to soil test bases
2		Rewar i	Nikhri, Rasgan, Dungarwas, Khatawali, Khaliyawas	Bajra, guar, mustard, wheat, dairying, ber, okra, bottle guard	 Unbalanced use of fertilizer & high doses of pesticides, problematic soil & water Unbalanced use of fertilizer ICM,IPM, INM according to soil test bases
3		Nahar	Nahar,Bharangi, Kohard,Jholri,Kh urshid nagar	Bajra,cotton,must ard,barley, vegetables	 Unbalanced use of fertilizer & high doses of pesticides, problematic soil & water Unbalanced use of fertilizer to soil test bases ICM,IPM, INM according to soil test bases

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Mustard	Integrated pest management (IPM)
	 Integrated Nutrient Management (INM)
	Weed management
Wheat	Seed treatment
	Weed management
	High yielding varieties
Bajra	 Integrated Nutrient Management (INM)
	Gap filling
	Weed management
Moong	Seed treatment
	High yielding varieties
	Weed management
Guar	 Integrated disease management (IDM)
	Weed management
Cucurbits	High yielding varieties
	 Seedling raising and early cultivation
	Poly tunnel cultivation
	Integrated pest management (IPM)
Onion	High yielding varieties
	Nursery raising and transplanting
D	Onion thrips and purple blotch management
Brinjal	High yielding varieties
	 Nursery raising and transplanting Integrated disease management (IDM)
	• · · · · · · · · · · · · · · · · · · ·
Tomata	Fruit and shoot borer management Llimb violation vortication
Tomato	High yielding varietiesIntegrated Nutrient Management (INM)
	 Integrated Nutrient Management (INM) Integrated disease management (IDM)
Okra	Mosaic resistant high yielding varieties
ONIA	 Sowing time and method
	Fruit borer management
Ber	Powdery mildew management
	Fruit fly management
Aonla	Integrated Nutrient Management (INM)
7.101.110	Value addition
Guava	Integrated Nutrient Management (INM)
	Fruit fly management
Citrus fruits	Integrated Nutrient Management (INM)
	Fruit drops and splitting management
	Integrated disease management (IDM)
Marigold	High yielding varieties
3. 3.	Nursery raising and transplanting
	Seed production
Dairy farming	Dairy farming
Poultry farming	Poultry farming
Agricultural Engineering	Recourse conservation technology
	Post harvest technology
	Drip and sprinkler irrigation system
Agricultural Extension	Formation of SHG and farmers' club
	Capacity building
	ICT and its application
Home Science	Tailoring and stitching
	 Preservation of fruits and vegetables
	Value addition in aonla

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2020

J.A. Deta	ilis of target and	a acilie veii	ients of manual	ory activities by KVK during 2020				
	OFT <mark>(Technolo</mark>	gy Assessn	<mark>nent)</mark>	FI	LD <mark>(Oilseeds, Pul</mark> <mark>Crops/En</mark> t		<mark>, Other</mark>	
		1			2	2		
Num	ber of OFTs	Total no. of Trials Area in ha Numb				Total no. of Trials Area in ha Number of		r of Farmers
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
10	10	100	100	269.2	269.2	604	604	

		ored, vocation ainwater Harve	Extension Activities					
		3					4	
Num	ber of Cours	Number of Participants		Number of activities		Number of participants		
Clientele	Targets	Achieveme nt	Targets	Achieveme nt	Targets	Achiev ement	Targets	Achiev ement
Farmers	81	81	1414	1414	200	243	2500	2833
Rural youth	03	03	63	63				
Extn. Functionaries	02	02	42	42				

	Seed Production	(Qtl.)	Planting material (Nos.)				
	5			6			
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers		
			4000	4820	130		

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 farme
Integrated Crop Management				
integrated Crop Management				
Integrated Disease Management	Kinnow	Assessment of zinc management in Kinnow orchard	1	10
Integrated Pest Management	Marigold	Assessment of Marigold variety	1	10
Integrated Nutrient	Wheat	Assessment of Micro nutrients on the yield of Wheat.	1	10
Management	Cotton	Assessment of nutrient management on the yield of cotton.	1	10
	Pearl millet	Assessment of integrated nutrient management on yield of Pearl millet	1	10
Varietal Evaluation	Wheat	Assessment of different varieties of Wheat crop	1	10
Weed Management	Cauliflower	Assessment of early cauliflower variety	1	10
	Marigold	Assessment of Marigold variety	1	10
Integrated Farming System				
Resource Conservation				
Technology				
Farm Machineries	Wheat	Effect of different farming operations for sowing of Wheat	1	10
	Cotton	Effect of cotton planter	1	10
Small Scale Income Generation				
Enterprises				
Seed / Plant production				
Post Harvest Technology /				
Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				
Total			10	100

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
Disease Management				
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management				
Production and Management				
Others (Pl. specify)				
Total				

Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers
				

I.B. TECHNOLOGY ASSESSMENT IN DETAIL

(From each state please include the full details of three OFTs on technology assessment under the broad thematic areas such as Integrated Crop Management, weed management, pest and disease management, nutrient management, resource conservation, livestock enterprises, Integrated Nutrient Management)

INTEGRATED CROP MANAGEMENT

Problem definition: Lower yield in wheat due to old variety

Technology Assessed: Assessment of wheat varieties i.e. HD-3086 & HD-2967

KVK, Rewari conducted on-farm trial to assess of Wheat varieties HD-3086 and HD-2967. The assessed practice of wheat variety HD-3086 was found more vegetative growth, more no of tillers per plant i.e. 11.6 as compared to HD-2967 i.e. 10.2 and reduced lodging due to less plant height in HD-3086 i.e. 83.00 cm as compare to HD-2967 i.e. 85.50 cm and ultimately increased grain yield in HD-3086 i.e. 57.25 q/ha as compare to HD-2967i.e. 55.85 q/ha, net return also increased of Rs. 81736 as compared to the farmers practice with net returns of Rs. 78341/ha (2.5% increase in net return per ha). Farmers were satisfied with the increment of grain yield of wheat crop. Farmers also explained that enhancement of tillering and less incidence of lodging as compared to farmers practice.

Table Assessment of different varieties of Wheat crop

Technology Option	No.of trials	Plant height (cm)	No. of tillers/plant	No. of grains/spike	Yield (q/ha)	Net Returns (Rs./ha)	BC Ratio
HD-2967 (FF)	10	85.50	10.2	59.63	5585	78341	2.43
HD-3086	10	83.00	11.6	58.62	5725	81736	2.50

Problem definition: Low net return in main season

Technology Assessed: Assessment of Early cauliflower varieties

Table Assessment of early cauliflower variety

Cauliflower is an important crop cultivated in 300ha. area in Rewari district. This crop cultivated from May & onwards to March month. Farmers observed that early produce sale on double rates in comparison to main season crop. Therefore, farmers requirements of early performed varieties of cauliflower. To overcome this problem, KVK Rewari conducted on-farm trials to assess of early cauliflower varieties i.e. Pusa Kartiki as farmers practice (T1)& assessed variety Pusa Ashwini (T2). The result showed that CV. Pusa Ashwini earned the yield by 8.27% in Rewari along with net profit of Rs.239000/ha. as compared to the farmers practice CV. Pusa Kartiki (T1) with net return Rs.215000/ha. The yield under T2 recorded 15.70t/ha. with net profit of 239000/ha. having BC ratio of 4.19.

Technology Option	No.of trials	Performance indicator			% Increase	Increase (Rs. in lakh./ha)		
		Days taken to curd harvesting after transplanting	Average curd weight gm	Yield (t/ha)	in Yield			
T1-Pusa Kartiki (FP)	10	105	500	14.5	9.27	215000/-	3.87	
T2-Pusa Ashwini		100	550	15.7	8.27	239000/-	4.19	

Problem definition: Low yield of Marigold in Winter season

Technology Assessed: Assessment of Marigold varieties during winter season

Table Assessment of Marigold variety

Rewari district situated in National capital region. Therefore, farmers are doing marigold cultivation above 300ha. round the year. Farmers problem identified that low yield and poor quality of existing varieties of marigold during winter (Jan-March) season. Therefore, KVK Rewari, conducted on-farm trial on assessment of marigold varieties i.e.Cv. Pusa Basanti as farmers practice (T1) and assessed variety Cv. Pusa Bahar(T2). The results showed that Cv. Pusa Bahar performed better and enhanced the yield by 14.70% in Rewari along with net profit of Rs.485000/ha. as compared to farmers practice Cv. Pusa Basanti with net return of Rs.410000/ha. The yield under (T2) recorded 19.5t/ha. with BC Ratio 5.85.

Technology Option	No.of trials	Per	Performance indicator % Increase in Yield Net Returns			Net Returns	ВС
		Days taken to flowering after sowing	No, of flowers/plant	Yield (t/ha)	(Rs. in		
T1-Pusa Basanti (FP)	10	135	52	17.0	14.70	410000/-	5.10
T2-Pusa Bahar		95	58	19.5	14.70	485000/-	5.85

PEST AND DISEASE MANAGEMENT

Problem definition: Low yield due to yellow vein mosaic virus

Technology Assessed: Assessment of Okra varieties against yellow vein mosaic virus

Table Assessment of Okra varieties

Okra is an important crop of Reawri district, which grown above 200ha. area in summer & rainy season. KVK Rewari, observed that yield of okra low due to incidence of yellow vein mosaic virus disease. Therefore, KVK Reawri in Haryana conducted on – farm trial to assess of okra varieties against yellow vein mosaic virus i.e. Arka Anamika (FP) and Pusa Bhindi-5(T2). The result showed that Cv. Pusa Bhindi-5 enhanced the yield by 17.16% along with net profit of Rs.170500/ha. without incidence of disease as compared to farmers practice (T1) Cv. Arka Anamika with net return of Rs.141000/ha. with 2% incidence of yellow vein mosaic virus. The yield under (T2) recorded 15.70t/ha. with BC Ratio 3.62.

Technology Option	No.of trials	Performance inc	licator	% Increase in Yield	Net Returns (Rs. in lakh./ha)	ВС
		Disease incidence(%)	Yield (t/ha)			
T1-Arka Anamika(FP)	10	2	13.4	17.16	141000/-	3.35
T2-Pusa Bhindi-5			15.7		170500/-	3.62

NUTRIENT MANAGEMENT

Problem definition: Lower productivity and profitability in Wheat cultivation due to deficiency of micro nutrients in the soil.

Technology Assessed: Micro nutrient management in Wheat

KVK, Rewari discussed with the farmers for low productivity of wheat. Farmers replied that they did not applied micronutrient in respective crop. So KVK Rewari collected soil samples randomly in their fields and found that soil is highly deficient in Zn and Fe. Zn and Fe deficiency in the wheat crop decline the growth, no. of tillers per plant, no. of grains per spike as well as test wt. which result in reduction of grain yield up to 16% KVK Rewari conducted on-farm trial to find out appropriate micro nutrient management practice to enhance the Wheat productivity. The assessed practice of soil application of Zinc sulphate @ 25kg/ha. &Foliar application of 0.5% Ferrous sulphate was found to enhance the vegetative growth, no of tillers per plant, no. of grains per spike as well as test wt. i.e. 103.1, 15.5, 38.4 and 39.3 respectively as compare to farmers practice which results in 14.54 % increase in yield. Farmers were satisfied with the increment of grain yield of wheat crop. Farmers also explained that tillering and no. of grains/spike were more than farmers practice.

Table Assessment of Micro nutrients on the yield of Wheat.

Technology Option	No. of trials	Plant height (cm)	No. of tillers/ plant	No. of grains /spike	Test wt.(g) 1000- grain wt.	Grain Yield (q./ha)	Straw Yield (q./ha)	Net Return (Rs./ha)	Increase in Yield (%)	B:C Ratio
No application of Zinc sulphate and Ferrous sulphate (Farmers Practice)	10	101.4	12.2	35.6	37.5	49.50	56.50	70360		2.23
Z _n SO ₄ @ 25kg/ha. & Ferrous sulphate @ 0.5% foliar application (Recommended Practice)		103.1	15.5	38.4	39.3	56.70	58.20	85110	14.54	2.49

Problem definition: Lower productivity and profitability in cotton crop due to deficiency of nutrients in the soil.

Technology Assessed: Nutrient management in cotton

KVK, Rewari discussed with the farmers for low productivity of cotton. Farmers replied that they did not applied proper dose of N, P, K, and Zn in respective crop. So KVK Rewari collected soil samples randomly in their fields and found that soil is deficient in N, P, K and Zn..Deficiency of these nutrients yellowish colour start from lower leaves then goes to upper leaves at flowering and ball formation stage which retard growth, size of bolls as well as no. of bolls per plant and decline the cotton yield upto 40%. KVK, Rewari conducted on-farm trial to find out appropriate nutrient management practice to enhance the cotton productivity. The assessed practice of soil application of Nitrogen @ 175kg/ha., Phosphorus @ 60kg/ha., Potash @ 60kg/ha., & zinc sulphate @ 25 kg/ha was found that vegetative growth increased during the active growth phase. The nutrient demand by the fruiting parts is very high. High nutrient demand at this stage results increasing boll weight and no. of bolls per plant i.e. 5.28 and 38.55 respectively as compared to farmers practice i.e. 4.52 and 26.35 respectively. Yield of the cotton increased up to 36.4% as compared to farmers practice. Farmers were satisfied with the increment of yield of cotton crop. Farmers also explained that after application of these nutrients leaves did not turn in yellow colour and no. and size of bolls also increased than farmers practice.

Table Assessment of nutrient management on the yield of cotton.

Technology Option	No. of trials	Plant height (cm)	No. of Bolls/Plant	Boll weight (gm)	Net Return (Rs./ha)	Yield (q./ha)	Increase in Yield (%)	B:C Ratio
NPKZn (58:25:0:0) (Farmers Practice)		103.4	26.35	4.52	56916	18.40		2.27
NPKZn(175:60:60:25) (Recommended Practice)	10	121.5	38.55	5.28	89711	25.10	36.4	2.84

Problem definition: Lower productivity in Kinnow orchard due to zinc deficiency in the soil.

Technology Assessed: Management of Zinc deficiency in Kinnow orchard

Kinnow is an important commercial fruit crop of Rewari district, which is cultivated in above 350ha. area. Zinc deficiency in kinnow orchard is major problem of this area, which results 20-25% yield losses and poor quality of fruits. KVK Rewari, conducted on-farm trial to find out appropriate zinc deficiency management practice to enhance the kinnow orchard productivity. The assessed practice (T2) two spray of zinc sulphate (0.5%)and urea (1%) to control zinc deficiency in kinnow orchard. The data revealed that assessed practice performed better & enhance yield by 20%(33t/ha.)along with net return of Rs. 415000 with BC Ratio 6.18 as compared to control (T1) with net return of Rs.337500 and yield 27.5t/ha. with BC ratio 5.50. Incidence of zinc deficiency (1.2%) in assessed technology (T2) as compared to control (T1)16%

Table Assessment of zinc management in Kinnow orchard

Technology Option	No.of trials	Performance in	dicator	% in Yield	Net Returns (Rs. in a)	BC Ratio
		Zn deficiency incidence(%)	Yield (t/ha)			
T1-Control (Farmers Practice)		16	27.5		337500	5.50
T2-Two spray of zinc sulphate (0.5%)& urea(1%) in the months of May-June & August - September (Recommended Practice)	10	1.2	33.0	20.0	415000	6.18

RESOURCE CONSERVATION

Problem definition: High cost of cultivation and low production.

Technology Assessed: Effect of different farming operations for sowing of Wheat in Haryana

The KVKs of Rewari, in Haryana conducted on-farm trial on performance different tillage operations for sowing of Wheat. Under irrigated conditions. Land prepared by rotavator followed by harrow & cultivator increased plant height (88.65cm), thousand seed weight (44.65gm) also increased as compared to farmer's practice the yield of wheat increased 10.69% with BC ratio 2.28 along with net profit Rs.62750 per hectare as compared to farmer's practice. Farmers can't use only rotavator for land preparation in wheat cultivation due to lack of implements but during the trial rotavator gave more yield as compared to harrow & cultivator.

Table Effect of different farming operations for sowing of Wheat

Technology Option	No.of trials	Yield (q/ha)	Net Returns (Rs./ha)	BC Ratio
Land prepared by harrow+cultivator (Farmers Practice)	10	47.80	51844	2.05
Land prepared by only rotavator (Recommended Practice)		53.00	62750	2.28

Problem definition: High cost of cultivation, lower efficiency poor quality seed placement.

Technology Assessed: Assessment of cotton planter in Haryana

The KVKs of Rewari, in Haryana conducted on-farm trial on assessment of cotton planter. Generally farmers are planted cotton by dibbling method, so lower efficiency, poor quality seed placement and high labor requirement. KVK designed a trial for planting of cotton using cotton planter, as compared to farmer's practice cotton planter gave more yield, more efficient, high field capacity as well as increased plant height. Cotton planter gave yield 8.6% increased, net return Rs. 39091.00, plant height 5.21cm & no. of bolls/plant 165with BC ratio 2.09 as compared to farmer's practice. Cotton planter gave resulted less weeds infestation, better germination & root strength as compared to dibbling method.

Table Effect of cotton planter

Technology Option	No.of trials	Yield (t/ha)	Net Returns (Rs./ha)	BC Ratio
Dibbling (Farmers Practice)	10	12.00	23750	1.66
Cotton planter (Recommended Practice)		13.00	39091	2.09

INTEGRATED NUTRIENT MANAGEMENT

Problem definition: Lower yield in Pearl millet due to imbalance application of nutrients

Technology Assessed: Integrated Nutrient Management in Pearl millet

KVK, Rewari discussed with the farmers for low productivity of pearl millet. Farmers replied that they did not applied proper dose of N, P, K, Zn, organic manure and bio fertilizer in respective crop. So KVK Rewari collected soil samples randomly in their fields and found that soil is deficient in N, P, K and Zn..Deficiency of these nutrients decline the growth, ear head length, test wt. and yield of pearl millet. An adequate supply of nitrogen is associated with vigorous vegetative growth. Pearl millet crop responds well to the applied phosphorous related to root and shoot development. Organic manure induced improvement in soil physical, chemical and biological properties. Vermicompost increased nitrogen use efficiency and reduces C: N ratio and also helps in increasing the humus content of soil and provides plants with a wide range of readily available nutrients such as Nitrate, Phosphorus, Potassium, Calcium, Magnesium and countering deleterious effects of soil acidity, salinity and alkalinity. Biofertilizers play an important role in increasing the availability of native and applied nutrients and also help in sustainably increasing the productivity. The integrated use of all these input sources is a must to supply balanced nutrients to plants.

KVK, Rewari conducted on-farm trial to find out appropriate integrated nutrient management practice to enhance the pearl millet productivity. The assessed practice of soil application of Nitrogen @ 125kg/ha., Phosphorus @ 60kg/ha., Potash @ 30kg/ha., zinc sulphate @ 25 kg/ha and compost @ 5000 kg/ha with inoculation of Azatobactor and PSB was found increased vegetative growth, ear head length, test wt. and yield of pearl millet i.e. 3.28, 31.5, 31.50 respectively as compare to farmers practice i.e. 2.55, 23.6, 23.60 respectively which results in 33.4 % increase in yield. Farmers were satisfied with the increment of grain yield of pearl millet crop. Farmers also explained that ear head length was big and size of the grain was bold than farmers practice.

Table Assessment of integrated nutrient management on yield of Pearl millet

Technology Option	No. of trials	Ear head length (cm.)	1000 grain wt. (g)	Grain Yield (q./ha)	Straw Yield (q./ha)	Net Return(Rs./h a)	Increase in Yield (%)	B:C Ratio
NPKZn(60:30:0:0) (FP)		2.55	23.6	23.60	32.50	34230	1	2.30
NPKZn (125:60 :30:25) +5ton compost/ ha. + Bio fertilizer (Recommended)	10	3.28	31.5	31.50	45.50	50395	33.4	2.62

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2019-20 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal	Horizontal spread of technology			
					No. of villages	No. of farmers	Area in ha		
1	Carrot	ICM	Early sowing variety and Ridge sowing method	Field days and awareness programme	08	42	22		
2	Onion	ICM	Varietal nursery management Field days and awareness and transplanting against bolting problem Field days and awareness programme		86	30			
3	Guava	ICM	Intercropping in orchard with Methi	Field days and awareness programme	06	12	10		
4	Marigold	ICM	Nursery raising, transplanting, pinching and IPM	Field days and awareness programme	05	25	15		
5	Okra	ICM	Sowing time, method and incidence against yellow vein mosaic virus	Field days and awareness programme	03	18	06		
6	Guar	ICM	Varietal, seed treatment, nutrient management , weed management and IPM	Field days and awareness programme	08	40	16		
7	Mustard	ICM	Varietal, seed treatment, nutrient management , weed management and IPM	Field days and awareness programme	15	165	72		
8	Wheat	ICM	Varietal, seed treatment, nutrient management , weed management and IPM	Field days and awareness programme	10	140	55		
9	Barley	ICM	Varietal, nutrient management	Field days and awareness programme	04	56	20		

^{*} Thematic areas as given in Table 3.1 (A1 and A2)

b. Details of FLDs implemented during 2020 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

SI. No.			Technology Demonstrated	Season and year	Area	(ha)		lo. of farme		Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Sesame	ICM	Varietal, Seed treatment, Nutrient management, Weed management &insect-pest management	Kharif 2020	20	20		35	35	
2	Cluster bean	ICM	Varietal, seed treatment &nutrient management	Kharif 2020		4.0		10	10	
3	Pearl millet	ICM	Varietal, Seed treatment, Nutrient management, Weed management	Kharif 2020	40	40		16	16	
4	Marigold	ICM	Varietal Nursery management, bed planting, pinching & IPM	Kharif 2020	02	02		10	10	
5	Mustard	ICM	Varietal, Seed treatment, Nutrient management, Weed management & insect-pest management	Rabi 2019-20	150.00	150.00		331	331	
6	Gram	ICM	Varietal, Seed treatment, Nutrient management, Weed management &insect-pest management	Rabi 2019-20	30.0	30.0		60	60	
7	Wheat	ICM	Varietal, seed treatment &nutrient management	Rabi 2019-20	10	10.4		26	26	
8	Barley	ICM	Varietal, seed treatment, nutrient management	Rabi 2019-20	4.8	4.8		12	12	
9	Carrot	ICM	Varietal sowing time & sowing method- Bed Planting INM	Rabi 2019-20	02	02		10	10	
10	Onion	RCM	Varietal, Sowing time & nursery management balance use of fertilizer, IPM	Rabi 2019-20	02	02		10	10	

Details of farming situation

		tion 3)		St	atus of	soil	do	Ф	Φ	ıfall	ays
Crop	Season	Farming situation (RF/Irrigated)	Soil type	N	Р	К	Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
Sesame	Kharif	Irrigated	Loamy sand	L	L	M	Mustard/Wh eat	17.06.2020 to 21.07.2020	10.09.2020 to 06.10.2020		
Sesame	Kharif	Irrigated	Sandy Ioam	L	L	M	Mustard/Wh eat	17.06.2020 to 21.07.2020	10.09.2020 to 06.10.2020		
Cluster bean	Kharif	Irrigated	Loamy sand	L	L	М	Wheat	05.07.2020 to 10.07.2020	25.9.2020 to 12.10.2020		
Mustard	Rabi	Irrigated	Loamy sand & Sandy Loam	L	L	М	Bajra	16.10.2020 to 21.10.2020	14.03.2020 to 03.04.2020		
Gram	Rabi	Irrigated	Loamy sand & Sandy Loam	L	L	М	Bajra	18.10.2020 to 26.10.2020	15.03.2020 to 26.03.2020		
Gram	Rabi	Irrigated	Sandy loam	L	L	М	Bajra	18.10.2020 to 28.10.2020	15.03.2020 to 28.03.2020		
Wheat	Rabi	Irrigated	Loamy sand	L	L	М	Bajra & Guar	10.11.2020 to 21.11.2020	27.03.2020 to 08.04.2020		
Barley	Rabi	Irrigated	Loamy sand	L	L	М	Bajra	13.11.2020 to 20.11.2020	26.03.2020 to 03.04.2020		

Technical Feedback on the demonstrated technologies

S. No	Feed Back						
1	Integrated crop management in summer moong enhanced the no. of pods/plant, no, of grains/pod and pod length.						
2	Integrated crop management in sesame increased the no. of pods/plant, no, of grains/pod and pod length.						
3	Integrated crop management in cluster bean enhanced the no. of bunch of pods/plant.						
4	Inoculation of rhizobium with PSB increased root nodules and seed treatment of bavistin reduced root rot disease upto 80 percent.						
5	Integrated crop management in mustard enhanced the no. of siliquae/plant and length of siliquae. Crop free from frost due to delay of flowering and pod formation in DRMRIJ-31 variety						
6	Integrated crop management in wheat increased vegetative growth, no of tillers per plant, no. of grains per spike						

Farmers' reactions on specific technologies

S. No	Feed Back
1	Variety of summer moong MH-421 gave higher yield than local check and appreciated no. of pods/plant, pod length and 80% maturity of the crop at one time.
2	Farmers appreciated RT-351 variety of sesame for more no. of pods and especially for more no. of grains per pod and shining colour of the grain than local check.
3	Farmers appreciated HG-2-20 variety of cluster bean for vigour growth and more no. bunch of pods per plant than local check.
4	Farmers appreciated management of root rot disease through seed treatment.
5	Farmers appreciated DRMRIL-31 variety of mustard for more no. of siliquae per plant and especially for more no. of grains per siliquae and hard coat of siliquae which reduce the loss of frost than local check.
6	Farmers appreciated increased vegetative growth, no of tillers per plant, no. of grains per spike in wheat

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	Carrot	11.02.2020	60	
		Mustard	26.02.2020	52	
		Mustard	29.02.2020	40	
		Wheat	12.03.2020	60	
		Barley	13.03.2020	56	
		Chickpea	17.03.2020	30	
		Pearl millet	09.09.2020	30	
		Sesame	10.09.2020	24	
		Cluster bean	23.09.2020	14	
		Marigold	10.11.2020	40	
2	Farmers Training	Production technology of summer moong crop	21.03.2020	14	
		Production technology of til crop	15.06.2020	10	
		Production technology to increase yield of til crop	09.07.2020	08	
		Production technology of mustard crop	19.09.2020	20	
		Production technology of mustard crop	28.09.2020	32	
		Production technology of gram crop	05.10.2020	27	
		Production technology of mustard crop	23.10.2020	15	
3	Media coverage	28			
4	Training for extension functionaries	Package and practice of rabi crops	16-10-2020	21	

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

	Thematic	technology		No. of	Area		Yie	eld (q/ha)		. %	Econo	mics of o	demonstr /ha)	ration		Economio Rs)	cs of che s./ha)	ck
Crop	Area	demonstrated	Variety	Farmers	(ha)	High	Dem Low	o Average	Check	Increase in yield	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Groundnut																		
Sesamum	ICM	Varietal, Seed treatment, Nutient management, Weed management &insect-pest manegement	RT-351	26	16.40	7.40	4.80	5.80	4.50	28.9	25735	47560	21825	1.84	24745	34850	10105	1.41
	ICM	Varietal, Seed treatment, Nutient management, Weed management &insect-pest manegement	RT-351	9	3.6	7.00	4.50	5.40	4.50	20.0	25735	44280	18545	1.72	24745	34850	10105	1.41
Mustard	ICM	Varietal,Seed treatment,Nutient management,Weed management & insect-pest manegement	Giriraj	162	77.60	31.00	20	23.51	20	17.55	37729	104032	66303	2.757	34572	88500	53928	2.559875
Mustard	ICM	Varietal,Seed treatment,Nutient management,Weed management & insect-pest manegement	R.H.725	49	24	26.50	21.00	23.20	20	16.00	37729	102660	64931	2.720	34572	88500	53928	2.559875
Mustard	ICM	Varietal,Seed treatment,Nutient management,Weed management & insect	Pionear 45s46	120	48.40	27.00	21.00	23.20	20	16.00	37729	102660	64931	2.720	34572	88500	53928	2.559875
Linseed																		
			•															

Sunflower									
Soybean									

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

** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops

	Thematic	technology	\/:-4	No. of	Area		Yie	eld (q/ha)		%	Ecoi		f demon: s./ha)	stration	E	Economi (R:	cs of ches./ha)	eck
Crop	Area	demonstrated	Variety	Farmers	(ha)	Lliah	Dem	•	Check	Increase in yield	Gross		Net	BCR	Gross	Gross	Net	BCR
Pigeonpea						High	LOW	Average		-	Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Пусопреа																		
Blackgram																		
Greengram																		
01 : 1	1014																	
Chickpea	ICM	Varietal, Seed treatment, Nutient management, Weed management &insect-pest manegement	CSJ- 515	30	15.6	16.5	7.5	9.23	7.5	23.06	30440	40612	10172	1.334166	27089	33000	5911	1.218207
Chickpea	ICM	Varietal, Seed treatment, Nutient management, Weed management &insect-pest manegement	CSJ- 515	30	14.4	14.75	5.5	7.025	7.5	-6.33	30440	30910	470	1.01544	27089	24200	-2889	0.893352
Fieldpea																		

Lentil										
Horsegram										

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

FLD on Other crops

							d (q/ha)		%	Other Pa	rameters	Econom	ics of demo	nstration (l	ks./ha)	Eco	nomics of cl	neck (Rs./h	a)
Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	High	Demo Low	Average	Check	Change in Yield	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cereals																			
Paddy																			
Waterlogged Situation																			
Coarse Rice																			
Scented Rice																			
Scenied Rice																			
Wheat Timely sown	RCT	ZT drill	25	10	55	46	50.27	49.91	0.72	Grain/spike 56-60, Spike length 4.1-4.2 inch, no of tillers-5-7	Grain/spike 49- 53, Spike length 3.6-3.9 inch, no of tillers-4-5	43875	106370	62495	2.42	49125	104477	55352	2.13
Wheat Timely sown		Varietal, seed treatment &nutrint management	26	10.4	60.75	53.50	56.25	52.75	6.63	Grain/spike 58- 61, Spike length 4- 4.1 inch, no of tillers-5-8	Grain/spike 50- 54, Spike length 3.8-4.0 inch, no of tillers-4-6	54595	133406	78811	2.44	53265	124919	71654	2.34
Cotton	ICM	Nutrient Management	20	08	25.6	18.8	22.2	16.9	31.36			48315	122433	74118	2.53	43610	93203	49593	2.13
Barley		Varietal, seed treatment, nutrient management	12	4.8	53.50	45.75	48.75	45.25	7.73	Grain/spike 54- 56,spike length-3.1- 3.6inch & no of tillers 6-9	Grain/spike 53- 56,spike length-3 - 3.6inch & no of tillers 5-8	43520	95156	51636	2.19	41715	88244	46529	2.12
Clusterbean	ICM	Varietal, seed treatment &nutrint management	10	4	18.50	9.50	11.50	9.00	27.78	155-170 pods/plant,6.3- 7.25 cm pod length,8-10	150-160 pods/plant,6.3- 7.0 cm pod length,7-8seed	25630	43700	18070	1.71	23680	34200	10520	1.44

										seed per pod	per pod				Ī				21
										Seed per pod	per pou								
Amaranth																			
Millets																			
Jowar																			
Bajra	ICM	Nutrient and weed management	40	16	32.5	24.3	28.4	22.5	26.22			29630	72910	43280	2.46	25850	57675	31825	2.23
Barnyard millet																			
Finger millet															J				
Vegetables																			
Bottlegourd																			
Carrot	ICM	Varietal sowing time & sowing method- Bed Planting INM	10	02	337	295	315	280	12.5	Days taken to maturity. 88 days	Days taken to maturity. 95 days	150000	472500	322500	3.15	140000	420000	280000	3.0
		Planting INM																	
												÷							
Bittergourd															ļ				
Cowpea																			
Cowpea																			
Cowpea																			
Cowpea																			
Spongegourd																			
Spongegourd Petha																			
Spongegourd																			
Spongegourd Petha																			

																			20
Frenchbean																			
			<u> </u>	+															
Capsicum																			
Chilli																			
Brinjal																			
Vegetable pea																			
Softgourd																			
Okra																			
Colocasia (Arvi)																			
,																			
Broccoli																			
Cucumber																			
Onion	ICM	Varietal , Sowing time & nursery management balance use of fertilizer, IPM	10	2.0	330	290	310	275	12.72	Bolting incidence 1%	Bolting incidence 4.5%	125000	372000	247000	2.98	120000	330000	210000	2.75
Coriender																			
Lettuce																			
Cabbage																			
Cauliflower																			
							I	1	<u> </u>			<u> </u>		<u> </u>	<u> </u>				4

		T	T	7	·	:									:				
																			İ
Elephant fruit																			
Licpitant nat																			
																			i
Flower crops																			
Marigold	ICM	Varietal Nursery management, bed planting, pinching & IPM	10	2.0	275	185	230	200	15	No. of flowers/plant - 230 Duration of flowering 95 days	No. of flowers/plant - 185 Duration of flowering 85 days	300000	1380000	1080000	4.60	270000	1200000	930000	4.44
Bela																			
	<u> </u>																		
Tuberose																			
																			<u></u>
Gladiolus																			
																			İ
Fruit crops																			
Mango																			
mango																			
																			[
Strawberry																			
																			į
																			-
Guava																			
																			İ
Banana																			
	•																		
Papaya																			
																			ļ
Muskmelon																			
Watermelon																			
Spices & condiments																			
Ginger																			
			<u> </u>																<u> </u>
Garlic																			
			<u> </u>																<u></u>

Turmeric	Ī				:		T					T			30
Turmenc															
												<u>.</u>			
Commercial Crops															
Crops															
Sugarcane															
				†											<u>†</u>
				-											
Potato															
rotato															
				ļ			 					ļ			ļ
Medicinal &															
Medicinal & aromatic															
plants Mentholment															
Mentholment															
Kalmegh															
															•
												·			
Ashwagandha															
Asiiwagailalla															
Fodder Crops															
Fodder Crops Sorghum (F)															
Cowpea (F)															
					•										
Maize (F)															
Lucern															
Lucciii															
Berseem															
Oat (F)															
			•												
		+	<u> </u>	·			 					ļ			†
	<u> </u>	. <u>L</u>	L	.1	L	L	 .L	 	i	Lİ	 i	<u> </u>	 	<u> </u>	I

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

** BCR= GROSS RETURN/GROSS COST

FLD on Livestock

Category	Thematic area	Name of the technology	No. of Farmer	No.of Units (Animal/	Major pa	rameters	% change	Other pa	rameter	Econom	ics of dem	onstratio	n (Rs.)	E	conomics (Rs	of check	(
		demonstrated		Poultry/ Birds, etc)	Demo	Check	change in major parameter	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle																	•
						•											
Buffalo																	
Buffalo Calf																	
Dairy																	
Poultry																	
Sheep & Goat																	
Vaccination																	

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

** BCR= GROSS RETURN/GROSS COST

FLD on Fisheries

Cotogory	Thematic	Name of the	No. of	No.of	Major pa	rameters	% change	Other pa	rameter	Econor	nics of der	monstratio	on (Rs.)	E		s of check s.)	
Category	area	technology demonstrated	Farmer	units	Demons ration	Check	in major parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps																	
Composit e fish culture																	
Feed Managem ent																	

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

** BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises

TLD on Other ente									·							
Category	Name of the	No. of	No.of	Major par	ameters	% change	Other p	arameter	Econom		onstration	(Rs.) or			s of check	
	technology	Farmer	units			in major				,	unit			(Rs.) or		
	demonstrated			Demo	Check	parameter	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oyster Mushroom																
Button Mushroom																
Apiculture																
, iproduction																
Maize Sheller																
Value Addition																
Vermi Compost																

FLD on Women Empowerment

Category	Name of technology	No. of	Name of observations	Demonstration	Check
		demonstrations			

FLD on Farm Implements and Machinery

0 a	P - C		<u>y</u>	•	,	,							•			
Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters		iled observation output/man hour)		Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check	parameter	Land	Sowing	Weedin	Total	Land	Labour	Irrigati	Total
						Dellio	Officer	•	preparation		g		preparati		on	
													on			
ZT drill	Wheat	Sowing of wheat using ZT drill	25	10	Cost reduction, labor reduction	0.45	0.60	0.33	0.36	0.10	0.00	0.46	5250	330	1000	6580
Hand operated	Aonla	Pricking of aonla	50		Cost reduction,	0.15	0.45	0.30	0.30			0.30		800		800
Aonla pricking		by machine			labor reduction											
machine																

FLD on Other Enterprise: Kitchen Gardening

Category and	Thematic	Name of the	No. of	No. of	Yield	Yield (Kg)		Other parameters		Economics of demonstration				Economics of check			
Crop	area	technology	Farmer	Units		char				(Rs./ha)				(Rs./ha)			
		demonstrate			Demons	Check	in yield	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
		d			ration					Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
																ļ	

FLD on Demonstration details on crop hybrids (Details of Hybrid FLDs implemented during 2020

	technology demonstrated	11	Nf	Area (ha)		Yield (q/h	ıa)		0/ 1	Economics of demonstration (Rs./ha)				
Crop		Hybrid Variety	No. of Farmers			Demo		Check	% Increase in yield	Gross	Gross	Net Return	BCR	
					High	Low	Average	Check	, , , , , , , , , , , , , , , , , , , ,	Cost	Return	Net Ketuiii	(R/C)	
Oilseed crop														
Pulse crop														
								•						

Cereal crop							
Vegetable crop							
Fruit crop							
Other (specify)							

Note: Remove the Enterprises/crops which have not been shown

III. Training Programme

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of				F	Participan	ts			
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	04	66	1	67	13	0	13	79	01	80
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	04	66	1	67	13	0	13	79	01	80
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	01	13	02	15	0	0	0	13	02	15
Others (pl specify)										
Total (a)	01	13	02	15	0	0	0	13	02	15
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) Flower cultivation	01	14	0	14	0	0	0	14	0	14
Total (c)	01	14	0	14	0	0	0	14	0	14
d) Plantation crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										

						•				36
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)Spices crops	01	11	0	11	0	0	0	11	0	11
Total (f)	01	11	0	11	0	0	0	11	0	11
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)	03	38	02	40	0	0	0	38	02	40
III Soil Health and Fertility	0.5	30	02	70	U	U	U	30	02	70
Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	01	16	2	18	2	2	4	18	4	22
Production and use of organic inputs										
Management of Problematic soils	01	6	2	8	2	2	4	8	4	12
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify) Vermi compost	01	10	0	10	0	0	0	10	0	10
Total			04			4			_	
	03	32	<u>U4</u>	36	4	4	8	36	08	44
IV Livestock Production and										
Management										
Dairy Management										
TO 1, N.E.										
Poultry Management										
Piggery Management Piggery Management										
Piggery Management										
Piggery Management Rabbit Management										
Piggery Management Rabbit Management Animal Nutrition Management										
Piggery Management Rabbit Management Animal Nutrition Management Disease Management	 	 	 	 	 	 	 	 	 	
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology	 	 	 	 	 	 	 	 	 	
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products	 	 	 	 		 	 	 	 	
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify)	 	 	 	 	 	 	 	 	 	
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total	 	 	 	 		 	 	 	 	
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total V Home Science/Women	 	 	 	 	 	 	 	 	 	
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total V Home Science/Women empowerment	 	 	 	 	 	 	 	 	 	
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total V Home Science/Women empowerment Household food security by kitchen	 	 	 	 	 	 		 	 	
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total V Home Science/Women empowerment	 	 	 	 	 	 		 	 	
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total V Home Science/Women empowerment Household food security by kitchen gardening and nutrition gardening	 	 	 	 	 	 	 	 	 	
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total V Home Science/Women empowerment Household food security by kitchen gardening and nutrition gardening Design and development of	 	 	 	 	 	 	 	 	 	
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total V Home Science/Women empowerment Household food security by kitchen gardening and nutrition gardening Design and development of low/minimum cost diet	 		 	 			 	 		
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total 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			 				 	 		
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total 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	 		 	 			 	 		
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total 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					 					
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total 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					 					
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total 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					 					
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total 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			 		 					
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total 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										
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total 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										
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total 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										
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total 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										
Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify) Total 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										

Rural Crafts	Ī	I	İ	1	I	1	I	I	İ	3 /
Women and child care										
Others (pl specify)										
Total										
VI Agril. Engineering										
Farm Machinary and its maintenance		 								
Installation and maintenance of micro	01	10	0	10	02	0	02	12	0	12
irrigation systems	01	10	U	10	02	U	02	12	U	12
Use of Plastics in farming practices										
Production of small tools and										1
implements										
Repair and maintenance of farm	01	22	02	24	05	0	05	27	02	29
machinery and implements	01		0_			Ü	0.0		0_	
Small scale processing and value										
addition										
Post Harvest Technology	01	21	0	21	05	0	05	26	0	26
Others (pl specify)										
Total	03	53	02	55	12	0	12	65	02	67
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		1								
Others (pl specify)										

Total										
X Capacity Building and Group										
Dynamics			-						-	
Leadership development			1			1			1	
Group dynamics			1			1			1	
Formation and Management of SHGs			1			1			1	
Mobilization of social capital			1			1			1	
Entrepreneurial development of										
farmers/youths										
WTO and IPR issues									-	
Others (pl specify)									-	
Total									-	
XI Agro-forestry			1			-			-	
Production technologies			1			1			1	
Nursery management			1			1			1	
Integrated Farming Systems			1			1			1	
Others (pl specify)			1			-			1	
Total			1			-			1	
GRAND TOTAL	13	189	09	198	29	04	33	218	13	231

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of				P	articipant	ts			
	courses		Others			SC/ST		(Frand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	01	12	0	12	2	0	2	14	0	14
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	11	124	01	125	13	0	13	137	01	138
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	12	136	01	137	15	0	15	151	01	152
II Horticulture										
a) Vegetable Crops										
Production of low value and high										
valume crops	04	74	0	74	07	0	07	81	0	81
Off-season vegetables										
Nursery raising	02	25	0	25	02	0	02	27	0	27
Exotic vegetables				1		-	1			
Export potential vegetables										
Grading and standardization										
Protective cultivation	02	28	0	28	03	0	03	31	0	31
Others (pl specify) Mushroom										
Production	01	17	0	17	03	0	03	20	0	20
Total (a)	09	144	0	144	15	0	15	159	0	159
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 tachniques	1	1 1		ı	l i		I	1 1		39
Plant propagation techniques Others (pl specify) Orchard										
Management	05	78	03	81	04	04	08	82	07	89
Total (b)	05	78	03	81	04	04	08	82	07	89
c) Ornamental Plants										
Nursery Management	01	09	0	09	0	0	0	09	0	09
Management of potted plants										09
Export potential of ornamental plants										
Propagation techniques of Ornamental										
Plants										
Others (pl specify) Flower cultivation	01	14	0	14	0	0	0	14	0	14
Total (c)	02	23	0	23	0	0	0	23	0	23
d) Plantation crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify) IPM	01	12	10	22	0	01	01	12	11	23
Total (d)	01	12	10	22	0	01	01	12	11	23
e) Tuber crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify) Tuber crops	01	08	06	14	0	0	0	08	06	14
Total (e)	01	08	06	14	0	0	0	08	06	14
f) Spices										
Production and Management										
technology										
Processing and value addition										
Others (pl specify) Spices crops	03	49	09	58	02	0	02	51	09	60
Total (f)	03	49	09	58	02	0	02	51	09	60
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)	21	314	28	342	21	05	26	335	33	368
III Soil Health and Fertility										
Management										
Soil fertility management	01	13	0	13	2	0	2	15	0	15
Integrated water management										
Integrated Nutrient Management	01	14	0	14	4	0	4	18	0	18
Production and use of organic inputs										
Management of Problematic soils	01	09	0	09	0	0	0	09	0	09
Micro nutrient deficiency in crops	04	50	02	52	16	0	16	66	02	68
Nutrient Use Efficiency	02	24	0	24	6	0	6	30	0	30
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	09	110	02	112	28	0	28	138	02	140
IV Livestock Production and			-		_					
Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Disease Management Feed & fodder technology										

Others (pl specify)	l			l	l		l	l		40
Total										
V Home Science/Women										
empowerment										
Household food security by kitchen	05	0	72	72	0	31	31	0	103	103
gardening and nutrition gardening	0.5	U	12	12		31	31		103	103
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										
Standar hamstreaming through SHOS										
Storage loss minimization techniques			70	70					125	125
Value addition	06	0	78	78	0	57	57	0	135	135
Women empowerment	01	0	10	10	0	02	02	0	12	12
Location specific drudgery reduction										
technologies										
Rural Crafts										
Women and child care										
Others (pl specify)Awareness Program	01	0	15	15	0	05	05	0	20	20
Total	13	0	175	175	0	95	95	0	270	270
VI Agril. Engineering										
Farm Machinary and its maintenance	03	49	06	55	05	03	08	54	09	63
•										
Installation and maintenance of micro	05	78	03	81	18	03	21	96	06	102
irrigation systems										
Use of Plastics in farming practices										
Production of small tools and										
implements										
Repair and maintenance of farm	02	20	0	20	06	0	06	26	0	26
machinery and implements			_			_				
Small scale processing and value	01	17	0	17	05	0	05	22	0	22
addition										
Post Harvest Technology	02	31	02	33	06	01	07	37	03	40
Others (pl specify)										
Total	13	195	11	206	40	07	47	235	18	253
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				1						1
freshwater prawn										
	1	1								-
				1	Ī		1	1		
Breeding and culture of ornamental										
Breeding and culture of ornamental fishes										
Breeding and culture of ornamental fishes Portable plastic carp hatchery										
Breeding and culture of ornamental fishes Portable plastic carp hatchery Pen culture of fish and prawn										
Breeding and culture of ornamental fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming			 	 	 	 		 	 	
Breeding and culture of ornamental fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming Edible oyster farming	 		 		 	 	 	 	 	
Breeding and culture of ornamental fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming			 	 	 	 		 	 	

Others (pl specify) Total IX Production of Inputs at site Seed Production										
IX Production of Inputs at site										
Planting material production										
<u> </u>										
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	68	755	217	972	104	107	211	859	324	1183

 $Farmers'\ Training\ including\ sponsored\ training\ programmes-CONSOLIDATED\ (On+Off\ campus)$

Thematic area	No. of				P	articipan	ts			
	courses		Others			SC/ST		(Frand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	01	12	0	12	02	0	02	14	0	14
Resource Conservation Technologies						1				
Cropping Systems						1				
Crop Diversification						1				
Integrated Farming						1				
Micro Irrigation/irrigation						1				
Seed production						1				
Nursery management						1				
Integrated Crop Management	15	190	02	192	26	0	26	216	02	218
Soil & water conservatioin						1				
Integrated nutrient management						1				
Production of organic inputs				-1		-	-			-
Others (pl specify)				-1		-	-			-
Total	16	202	02	204	28	0	28	230	02	232
II Horticulture										

) V		1 1		ı	İ	İ	i	İ	İ	4 <i>2</i> I
a) Vegetable Crops										
Production of low value and high	0.4	7.4	0	7.4	07	0	07	0.1	0	0.1
valume crops	04	74	0	74	07	0	07	81	0	81
Off-season vegetables										
Nursery raising	02	25	0	25	02	0	02	27	0	27
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	03	41	02	43	03	0	03	44	02	46
Others (pl specify) Mushroom	0.1	1.7	0	1.7	0.2	0	0.2	20	0	20
Production	01	17	0	17	03	0	03	20	0	20
Total (a) b) Fruits	10	157	02	159	15	0	15	172	02	174
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) Orchard										
Management	05	78	03	81	04	04	08	82	07	89
Total (b)	05	78	03	81	04	04	08	82	07	89
c) Ornamental Plants	05	70	03	01	04	04	Uo	04	07	09
Nursery Management	01	09	0	09	0	0	0	09	0	09
Management of potted plants										09
Export potential of ornamental plants										
Propagation techniques of Ornamental										
Plants										
Others (pl specify) Flower cultivation	02	28	0	28	0	0	0	28	0	28
Total (c)	03	37	0	37	0	0	0	37	0	37
d) Plantation crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify) IPM	01	12	10	22	0	01	01	12	11	23
Total (d)	01	12	10	22	0	01	01	12	11	23
e) Tuber crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify) Tuber crops	01	08	06	14	0	0	0	08	06	14
Total (e)	01	08	06	14	0	0	0	08	06	14
f) Spices										
Production and Management										
technology										
Processing and value addition										
Others (pl specify) Spices crops	04	60	09	69	02	0	02	62	09	71
Total (f)	04	60	09	69	02	0	02	62	09	71
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)	24	352	30	382	21	05	26	373	35	408
III Soil Health and Fertility	47	352	20	302		0.5	20	3,3	33	-100
Management										
Soil fertility management	01	13	0	13	02	0	02	15	0	15
2011 Totaling management	0.1	13	<u> </u>	1.0	02		02	1.2	v	1.5

Integrated water management	ĺ	i i		ĺ	İ i		İ	1 1		43 I
Integrated water management	02	20	02	22	06	02	00	26	0.4	40
Integrated Nutrient Management	02	30	02	32	06	02	08	36	04	40
Production and use of organic inputs	02	1.7	00	17	02	00	0.4	17	0.4	21
Management of Problematic soils	02	15	02	17	02	02	04	17	04	21
Micro nutrient deficiency in crops	04	50	02	52	16	0	16	66	02	68
Nutrient Use Efficiency	02	24	0	24	06	0	06	30	0	30
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify) Vermi compost	01	10	0	10	0	0	0	10	0	10
Total	12	142	06	148	32	04	36	174	10	184
IV Livestock Production and										
Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management						-				
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total										
V Home Science/Women										
empowerment										
Household food security by kitchen	05	0	72	72	0	31	31	0	103	103
gardening and nutrition gardening	0.5		72	'2		31	31	· ·	103	103
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			70	70					125	125
Value addition	06	0	78	78	0	57	57	0	135	135
Women empowerment	01	0	10	10	0	02	02	0	12	12
Location specific drudgery reduction										
technologies										
Rural Crafts										
Women and child care										
Others (pl specify)	01	0	15	15	0	05	05	0	20	20
Total	13	0	175	175	0	95	95	0	270	270
VI Agril. Engineering										
Farm Machinary and its maintenance	03	49	06	55	05	03	08	52	11	63
Installation and maintenance of micro	06	88	03	91	20	03	23	108	06	114
irrigation systems										
Use of Plastics in farming practices										
Production of small tools and										
implements										
Repair and maintenance of farm	03	42	02	44	11	0	11	53	02	55
machinery and implements	<u> </u>			<u> </u>						<u> </u>
Small scale processing and value	01	17	0	17	05	0	05	22	0	22
addition	<u> </u>									
Post Harvest Technology	03	52	02	54	11	01	12	62	04	66
Others (pl specify)										
Total	16	248	13	261	52	07	59	300	20	320
VII Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and										
110aaction of the control agents and	l	1		1	l		I	ı		l

hio mosticidos	İ	ı	I	I	l	I	I	I	İ	44
bio pesticides Others (planacify)										
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	81	944	226	1170	133	111	244	1077	337	1414
	_ JI	/ 77		11/0	100	111		1011	557	7-17-4

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

					No. of	Participa	nts			
Area of training	No. of		General			SC/ST		(Grand To	tal
Area of training	Courses	Male	Female	Total	Male	Female	Total	Mal e	Femal e	Total
Nursery Management of	01	14	0	14	0	0	0	14	0	14
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	01	15	0	15	03	0	03	18	0	18
Bee-keeping										
Sericulture										
Repair and maintenance of										
farm machinery and										
implements										
Value addition	01	0	15	15	0	16	16	0	31	31
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						+		1		+
Freshwater prawn culture										
<u> </u>										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing										
technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	03	29	15	44	03	16	19	32	31	63

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

					No. of	Participa	nts			
	No. of		General		110.01	SC/ST	ints	G	Frand Tot	tal
Area of training	Course		Femal			Femal		Mal	Femal	
	S	Male	e	Total	Male	e	Total	e	e	Total
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									1	
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		1								
Freshwater prawn culture										
Shrimp farming		-								
Pearl culture		-								
Cold water fisheries		-								
Fish harvest and processing										
technology		-								
Fry and fingerling rearing		1								
Any other (pl.specify)		1								
TOTAL		-								

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

	No. of				No. of	Participa	nts			
Area of training	Course		General			SC/ST		Grand Total		
Area of training	S	Male	Femal	Total	Male	Femal	Total	Mal	Femal	Total
			e		Maie	e		e	e	
Nursery Management of	01	14	0	14	0	0	0	14	0	14
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	01	15	0	15	03	0	03	18	0	18
Bee-keeping										
Sericulture										
Repair and maintenance of										
farm machinery and										
implements										
Value addition	01	0	15	15	0	16	16	0	31	31
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts		1					-			
Production of quality										
animal products										
Dairying										
Sheep and goat rearing		1								
Quail farming		1								
Piggery		1								
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	03	29	15	44	03	16	19	32	31	63

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

					N	o. of Parti	cipants			
Area of training	No. of Courses		General			SC/ST		(Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	01	16	1	17	4	0	4	20	01	21
Integrated Pest Management										
Integrated Nutrient management	01	16	01	17	4	0	4	20	01	21
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)										
TOTAL	02	32	02	34	08	0	08	40	02	42

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

	No. of	No. of Participants									
Area of training	Courses		General			SC/ST		(Frand Tota	al	
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
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)											
TOTAL											

$\label{thm:constraint} \textbf{Training programmes for Extension Personnel} \quad including \ sponsored \ training \ programmes \ - \ CONSOLIDATED \\ (On + Off \ campus)$

					No. of	Participar	nts			
Area of training	No. of Courses		General			SC/ST		(Grand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	01	16	1	17	4	0	4	20	01	21
Integrated Pest Management										
Integrated Nutrient management	01	16	01	17	4	0	4	20	01	21
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)										
TOTAL	02	32	02	34	08	0	08	40	02	42

Table. Sponsored training programmes

	No. of				No. o	f Participa	ants			
Area of training	Courses		General			SC/ST		(Frand Tota	al
Area of training		Male	Female	Total	Male	Female	Total	Male	Female	Total
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										
Son hearth and returnly 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										
GRAID IUIAL										

Name of sponsoring agencies involved

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

Details of vocational trai						Participant				
Area of training	No. of Courses		General			SC/ST			Grand Tota	ıl
		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 (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
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 (pl. specify)										
Total										
Agricultural Extension Capacity building and group										
dynamics										
Others (pl. specify)										
Total										
Grand Total										

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	03	81	06	87
Diagnostic visits	11	44	03	47
Field Day	10	401	08	409
Group discussions				
Kisan Ghosthi	04	94	08	102
Film Show	02	145	07	152
Self -help groups				
Kisan Mela				-
Exhibition				
Scientists' visit to farmers field	182	955	12	967
Plant/animal health camps				
Farm Science Club	04	186	04	190
Ex-trainees Sammelan	02	45	02	47
Farmers' seminar/workshop				
Method Demonstrations	08	112	04	116
Celebration of important days	04	272	04	276
Special day celebration	13	425	15	440
Exposure visits				
Others (pl. specify)				
Total	243	2760	73	2833

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	15
News paper coverage	64
Popular articles	23
Radio Talks	
TV Talks	02
Animal health amps (Number of animals treated)	
Others (pl. specify)	
Total	104

		Type of Messages									
Name of KVK	Message Type	Crop	Livestock	Weather	Marke- ting	Aware- ness	Other enterpris e	Total			
	Text only	31		01		26	06	64			
Rewari(HR)	Voice only										
	Voice & Text both										
	Total Messages	31		01		26	06	64			
	Total farmers Benefitted	2358185		76082		1977958	456753	4868978			

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies	04	94	Mustard, wheat, pearl millet
	Lectures organised	10	340	ICM,INM,IPM & Organic farming
	Exhibition			
	Film show			
	Fair			
	Farm Visit	05	185	Latest technology of crop production
	Diagnostic Practicals			
				ICM, INM & IPM in rabi & kharif
	Distribution of Literature (No.)	12	740	crops
	Distribution of Seed (q)			
	Distribution of Planting materials			
	(No.)	4820	130	Seedling of brinjal & chilli
	Bio Product distribution (Kg)	1625	30	Vermi compost
	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	Brinjal	PU,PPR		4120	2060	100
	Chilli	Pusa Jwala,PSB		700	350	30
Fruits						
Ornamental plants						
-						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
<u>-</u>						
Others						
Total						

Production of Bio-Products

	Name of the bio-product	Quantity		
Bio Products		Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers	Vermi compost	1625	9750	30
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others				
				
Total		1625	9750	30

Table: Production of livestock materials

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

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)	No. of soil health cards distributed
Soil	465	398	321	4650	
Water	456	393	341	4560	
Plant					
Manure					
Others (pl.specify)					
Total	921	791	662	9210	

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Date of SAC Meeting	Participants
Rampura-Rewari	16.12.20	11

IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution
News Letter (Quarterly)	1500

X. PUBLICATIONS

Category	Number
Research Paper	
Technical bulletins	
Technical reports	03
Others (pl. specify)Articles	23

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

Activities conducted				
No. of Training programmes No. of Demonstration s No. of plant materials produced Visit by farmers Visit by official				
(No.) (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 participant	
Total		

Animal health camps organised

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	Area (ha)	Number of farmers
technologies introduced		
Total		

Awareness campaign

	Meetings		Gosthies		Field d	lays	Farmers f	air	Exhibition		Film sl	now
	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

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
	+			
	ł			
	+	-	-	1
Total				

B. HRD activities organized in identified areas for KVK staff by ATARI

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

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 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

TITLE - Self employment through vermin-composting

Introduction - KVK Rampura-Rewari organized vermin-composting for rural youths & farmers. At present land holding decreased in our country, therefore vermin-compost, Worms & Vermi wash a basic need of our farmers for improving soil health.

KVK intervention- KVK started vocational training on vermin-composting on campus every year five days duration in last four year. During the training period course covered vermin-compost bed establishment how to make vermin-compost by worms, how to manage raw materials in details.

Outcome- Mr. Kuljeet Yadav, resident of village Bathera, having 1.5 acre land holding and growing organic mustard, bajra, wheat & vegetables. After successfully completed training in 2016, established vermin-compost making u nits (100 beds initially) and later entered it to more than 150 beds using Eisenia fetida earth worm species. He earned more than 2.5 lacs per month by selling of brand name Ganga vermi-compost, worms & vermi-wash.

Impact- About 45 rural youths has been trained in last years. After successfully completion of training, at present 25 units are established for vermi-compost production.

TITLE - Tomato cultivation under mulching with staking using drip irrigation.

Introduction - On campus training programame organized for a week to protected cultivation of fruits and vegetables using drip, mulching and staking technique.

KVK intervention- KVK, Rampura-Rewari organized one week training on fruits and vegetables production using drip irrigation method with mulching and staking technique at campus. During the training period course covered on protected cultivation of fruits and vegetables and covered all horticultural and vegetable crops. Constructional design of bed making, types of mulching, staking, low tunnel management in details.

Outcome- Mr. Krishan Kumar S/o Shri Dharampal, resident of village Nimoth started cultivation of tomato initially half acre (2018) and now he is started cultivation of tomato in 1.5 acre(2019-20) with mulching, staking using drip irrigation method. He got more profit in small area and initially his contact increase in near by villages as well as entire district. Now he established 1000 sq.m. Polly house and cultivation of off season vegetables and medicinal plants. He got net profit Rs. 2,00,000/- for selling of tomato, carrot, pumpkin and stawer etc.

Impact - For successful completion of training about Ten trainees were started tomato cultivation under protected cultivation.

XIII. STATUS REVOLVING FUNDS

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
April 2018 to March 2019	44,82,660.50	2,60,801.5	NIL	47,43,462.00
January 2019 to December 2019	47,43,462.00	3,15,720.12	Nil	50,59,182.12
January 2020 to December 2020	50,59,182.12	2,29,676.37	NIL	52,88,858.49

The KVKs implementing VATICA, NARI & Doubling Farmers income should submit one page report with salient achievements along with photographs pertaining to year 2020.

Doubling Farmer's Income

Strategies for doubling farmer's income

1. Increasing productivity of existing crops by adoption of improved practices:

Promotion of short duration and less water requiring crops/varieties like Pearl millet, Mung bean and sesame. Promotion of low cost inputs such as biofertilizer, gypsum, seed treatment technology, vermicomposting, green manuring and minimal use of chemical fertilizers. Supply of metrological advisory proper time like sowing and other farm operations to avoid repeated operation cost. Judicious use of pesticides. Promotion of seed production programme of pulses, vegetable crops and other field crops.

2. Diversification through horticultural crops:

Promotion of ber, guava, beal, anola and organic vegetable because of proximity to the huge market of NCR. Promotion of floriculture crops.

3. Promotion of integrated farming:

Promotion of different integrated farming system modules such as:- ™ Crops production/ fodder crop + Poultry, Crops production/ fodder crop + dairy farming +Bio gas unit + vermin composting + value addition of milk products, Crop production + orchards + vegetable crops + Mushroom +Bee keeping ™ Crop production + Goatry +Bio gas unit +Vermin composting. Fish farming area. Organic cultivation of local grain, millets vegetables and fruit crops.

Activities Undertaken for Doubling Farmer's Income Programme:

On Farm Tri	On Farm Trials							
Crop	Technology Demonstrated	No. of trials	Area (ha)	Village	No. of Participant			
Cotton	Assessment of nutrient management on the yield of cotton.	10	4	Khatawali	10			
Pearl millet	Performance of Pearl millet to integrated nutrient management	10	4	Khatawali	10			
Wheat	Assessment of Micro nutrients on the yield of Wheat.	10	4	Khaliyawas	10			
Marigold	Performance of marigold varieties during winter season	10	4	Khaliyawas	10			
Cauliflower	Assessment of early cauliflower variety	10	4	Khaliyawas	10			
Okra	Assessment of Okra variety	10	4	Khaliyawas	10			

Front Lin	Front Line Demonstration							
Crop	Technology Demonstrated	Area (ha)	Village	No. of Participant				
Cluster bean	Seed treatment, Nutrient management, Weed management and disease management	10	Khaliyawas	04				
Pearl millet	Seed treatment, Nutrient management, Weed management and disease management	10	Khatawali	25				
Sesame	Seed treatment, Nutrient management, Weed management and IPM	20	Khaliyawas	35				
Mustard	Seed treatment, Nutrient management, Weed management and IPM	150	Khaliyawas	331				
Organic Wheat	Seed treatment through bio fertilizer & Nutrient management through organic manure	20	Khaliyawas	26				
Marigold	Seed treatment, Nutrient management, Weed management and IPM	01	Khaliyawas	05				
Carrot	Seed treatment, Nutrient management, Weed management and IPM	0.6	Khatawali	03				
Barley	Seed treatment, Nutrient management, Weed management	4.8	Khaliyawas	12				

Training and Other extention activity							
Name of activity	Training	Field days	Swachhata Pakhwada	Parthenium week	Kitchen Gardening		
No. of	17	06	01	01	01		
Programme		• • •		•	•		
No. of Participant	25	295	65	39	20		

Impact:-

- 1. According to first strategy KVK, rewari organized ten trainings for enhancement of crop productivity on different crops and conducted four On Farm trials in ten hectare area and eight front line demonstrations on different crops with different technologies like integrated nutrient management, foliar spray of water soluble fertilizer, weed management and integrated pest management etc. in adopted villages. Results of these technologies revealed that 12-18% productivity increased in cereal, oilseed, pulses and millets through adoption of these latest production technologies.
- 2. According to second strategy KVK rewari motivated the farmers for cultivation of horticultural and vegetable crops through conducting trainings, On Farm Trials and front line demonstrations on different crops. The impact of these programmes is that establishment of guava orchard in eight hectare area and kinnow and lemon orchard in four hectare area in adopted villages. Enhancement of sixteen hectare area in vegetable crops like cauliflowers, cabbage, carrot, radish, cucumber, tomato with latest technology of drip irrigation, low tunnel and stacking and Fifteen hectare area in marigold and gladiolus flowers.
- 3. For Integrated Farming system KVK rewari made efforts with farmers for creating Integrated Farming system through trainings and exposure visits. Two farmers established a complete integrated farming system model in one and two hectare area through guava orchard, vegetables, mini dairy, vermicompost unit, marigold and gladiolus flowers and organic wheat, pearl millet and sesame. Twenty seven farmers adopted organic farming in twenty hectare area with wheat, pearl millet, sesame and vegetable crops. Thirty two farmers developed mini dairies with crop productivity on their farms. Eight other farmers established vermin compost units. One farmer also established high-tech bioflok fishery unit and started cultivation of vegetables with waste water of fishery unit.

Enhancement of income through crop diversification

Crop/Enterprises	No. of Farmers	Area/Unit (ha/No.)	Yield (Qt/ha)	Net return (Rs./ha)	increase in return (Rs./ha)
	Tarmers	(114/110.)	(Qt/IIa)	(KS./11a)	(Tts./Tiu)
Wheat	27	20	48.87	102580	50924
Marigold	46	22	195	217500	73729
Carrot	38	16	315	189000	67344
Mustard	100	40	23.47	66126	19855

Income Generation of Farmers through enterprises

Crop/Enterprises	Unit/Area	No. of	Production	Net return from
	No./ha	bed/Animal/plant	(Kg)	unit/year (Rs.)
Vermi compost Unit	12	48	7600	27600
Mini Dairy	32	45	8560	24526
Backyard Poultry	15	144	325	9500
Orchard (Guava)	12	3600		

Nutri Sensitive Agricultural Resource and Innovation (NARI) 2020

NARI programme is a comprehensive scheme for social, economical, nutritional security and skill development for empowerment of women. Under this programme several skill development training's like establishment of Poshan vatika for holistic nutritional security of the communities, value addition of seasonal fruits and vegetables and adoption of bio fortified crops etc. were carried out. Income generating activities like stitching of garment, tie and die, soap and candle making, dairy farming and vermin composting were also organized

Activities under NARI programme-

A-	FLD's			
Sr.	Title	No.	Date	No. of Participants
No.				
1	Nutri garden	200	8.3.2020 &	200
			17.9.2020	

Sr.	aining's Title	Village	Date	No. of Participants
No.	THE	v mage	Date	140. Of 1 articipants
1	Layout plant of Poshan vatika	Khaliyawas	16.1.2020	23
2	Layout plan of Kitchen garden	Dhawana	17.32020	24
3	Management of Nutri garden for SHGS.	Khuspura	4.5.2020	20
4	Empowerment of Farm women through Nutri garden	Dhawana	4.9.2020	22
5	Establishment of Nutri garden	Khuspura	7.9.2020	27
6	Training on nutrition schedule for SHGs	Dharchana	11.9.2020	22
7	Nutri gardens establishment for Anganwadi workers	On Campus	14.09.2020	19
8	Layout plan of kitchen gardening for Anganwadi workers	Jatusana	15.9.2020	36
9	Establishment of nutria gardens	Khaliawas	21.9.2020	24
10	Layout plan of nutria gardens for farmers and farm women	Dhawana	22.9.2020	22
11	Management of nutria gardens	Dhawana	28.9.2020	22
12	Layout plan kitchen garden for Farmwomen	Bithwana	20.10.2020	24
13	Insect pest management I Poshan Vatika	Akbarpur	17.11.2020	10

C- Extension Activity				
Sr.	Title	Village	Date	No. of Participants
No.				
1	International Women's Days	Khushpura	8.3.2020	70
2	Celebration of Poshan Maah	KVK Campus	17.9.2020	149
3	Mahila Kisan Diwas	On Campus	15.10.2020	63