

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 Assessed	No. of Trials	No. of Farmers
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	2833

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
Rampura-Rewari	Text only	31	--	01	--	26	06	64
	Voice only	--	--	--	--	--	--	--
	Voice & Text both	--	--	--	--	--	--	--
	Total Messages	31	--	01	--	26	06	64
	Total farmers Benefitted	235818	5	76082	--	19779	456753	48689
						58		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
Water	456	393
Plant		
Total	921	791

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

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

Address	Telephone		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	Mobile	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)

Sl. 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	anilyadav878@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	dilipkumarkvk@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. No.	Item	Area (ha)
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

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	--	496.4	--	--	--	--
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

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
<i>AV aids</i>			
LCD Projector	2007	89,836/-	Good
Camera	2016	25,000/-	Good
Colour T.V.	2001	22,000/-	Good
Microscope	2010	99,500/-	Good
Refrigerator	2010	40,000/-	Good
<i>Office Equipment</i>			
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
<i>Farm equipments</i>			
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

Sl.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)	<p>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.</p> <p>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.</p>
2	Agro ecological situation	Characteristics
A.	AES – I (Comprising Jatusana & nahar Block)	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 Bajra- wheat and bajra-mustard.
B.	AES – II (Comprising Bawal, Khol and Rewari Block)	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.

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 Bajra-wheat and bajra-mustard.	108000
2.	Sandy loam	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 (Qtl)	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 ° 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			
<i>Crossbred</i>	36674	--	--
<i>Indigenous</i>	46522	--	--
Buffalo	237615	--	--
Sheep			
<i>Crossbred</i>	1014	--	--
<i>Indigenous</i>	8684	--	--
Goats	23237	--	--
Pigs			
<i>Crossbred</i>	1781	--	--
<i>Indigenous</i>	2688	--	--
Rabbits	26	--	--
Poultry			
Hens	1654	--	--
<i>Desi</i>	1099	--	--
<i>Improved</i>	555	--	--
Ducks	34	--	--
Turkey and others	02 & 4013	--	--

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

2.7 Details of Operational area / Villages (2020)

Sl. 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	<ul style="list-style-type: none"> • Unbalanced use of fertilizer & high doses of pesticides, problematic soil & water 	<ul style="list-style-type: none"> • ICM,IPM, INM according to soil test bases
2		Rewari	Nikhri, Rasgan, Dungarwas, Khatawali, Khaliyawas	Bajra, guar, mustard, wheat, dairying, ber, okra, bottle guard	<ul style="list-style-type: none"> ❖ Unbalanced use of fertilizer & high doses of pesticides, problematic soil & water 	ICM,IPM , INM according to soil test bases
3		Nahar	Nahar, Bharangi, Kohard, Jholri, Khurshid nagar	Bajra, cotton, mustard, barley, vegetables	<ul style="list-style-type: none"> ❖ Unbalanced use of fertilizer & high doses of pesticides, problematic soil & water 	<ul style="list-style-type: none"> • ICM,IPM , INM according to soil test bases

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Mustard	<ul style="list-style-type: none"> • Integrated pest management (IPM) • Integrated Nutrient Management (INM) • Weed management
Wheat	<ul style="list-style-type: none"> • Seed treatment • Weed management • High yielding varieties
Bajra	<ul style="list-style-type: none"> • Integrated Nutrient Management (INM) • Gap filling • Weed management
Moong	<ul style="list-style-type: none"> • Seed treatment • High yielding varieties • Weed management
Guar	<ul style="list-style-type: none"> • Integrated disease management (IDM) • Weed management
Cucurbits	<ul style="list-style-type: none"> • High yielding varieties • Seedling raising and early cultivation • Poly tunnel cultivation • Integrated pest management (IPM)
Onion	<ul style="list-style-type: none"> • High yielding varieties • Nursery raising and transplanting • Onion thrips and purple blotch management
Brinjal	<ul style="list-style-type: none"> • High yielding varieties • Nursery raising and transplanting • Integrated disease management (IDM) • Fruit and shoot borer management
Tomato	<ul style="list-style-type: none"> • High yielding varieties • Integrated Nutrient Management (INM) • Integrated disease management (IDM)
Okra	<ul style="list-style-type: none"> • Mosaic resistant high yielding varieties • Sowing time and method • Fruit borer management
Ber	<ul style="list-style-type: none"> • Powdery mildew management • Fruit fly management
Aonla	<ul style="list-style-type: none"> • Integrated Nutrient Management (INM) • Value addition
Guava	<ul style="list-style-type: none"> • Integrated Nutrient Management (INM) • Fruit fly management
Citrus fruits	<ul style="list-style-type: none"> • Integrated Nutrient Management (INM) • Fruit drops and splitting management • Integrated disease management (IDM)
Marigold	<ul style="list-style-type: none"> • High yielding varieties • Nursery raising and transplanting • Seed production
Dairy farming	<ul style="list-style-type: none"> • Dairy farming
Poultry farming	<ul style="list-style-type: none"> • Poultry farming
Agricultural Engineering	<ul style="list-style-type: none"> • Recourse conservation technology • Post harvest technology • Drip and sprinkler irrigation system
Agricultural Extension	<ul style="list-style-type: none"> • Formation of SHG and farmers' club • Capacity building • ICT and its application
Home Science	<ul style="list-style-type: none"> • 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

OFT (Technology Assessment)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
10	10	100	100	269.2	269.2	604	604
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	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 farmers
Integrated Crop Management	--	--	--	--
	--	--	--	--
Integrated Disease Management	Kinnow	<i>Assessment of zinc management in Kinnow orchard</i>	1	10
	--	--	--	--
Integrated Pest Management	Marigold	<i>Assessment of Marigold variety</i>	1	10
	--	--	--	--
Integrated Nutrient Management	Wheat	<i>Assessment of Micro nutrients on the yield of Wheat.</i>	1	10
	Cotton	<i>Assessment of nutrient management on the yield of cotton.</i>	1	10
	Pearl millet	<i>Assessment of integrated nutrient management on yield of Pearl millet</i>	1	10
Varietal Evaluation	Wheat	Assessment of different varieties of Wheat crop	1	10
	--	--	--	--
Weed Management	Cauliflower	<i>Assessment of early cauliflower variety</i>	1	10
	Marigold	<i>Assessment of Marigold variety</i>	1	10
Integrated Farming System	--	--	--	--
	--	--	--	--
Resource Conservation Technology	--	--	--	--
	--	--	--	--
Farm Machineries	Wheat	<i>Effect of different farming operations for sowing of Wheat</i>	1	10
	Cotton	<i>Effect of cotton planter</i>	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-2967 i.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		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 in Yield	Net Returns (Rs. in lakh./ha)	BC
		Days taken to curd harvesting after transplanting	Average curd weight gm	Yield (t/ha)			
T1-Pusa Kartiki (FP)	10	105	500	14.5	8.27	215000/-	3.87
T2-Pusa Ashwini		100	550	15.7		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	Performance indicator			% Increase in Yield	Net Returns (Rs. in ha)	BC
		Days taken to flowering after sowing	No, of flowers/plant	Yield (t/ha)			
T1-Pusa Basanti (FP)	10	135	52	17.0	14.70	410000/-	5.10
T2-Pusa Bahar		95	58	19.5		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 indicator		% Increase in Yield	Net Returns (Rs. in lakh./ha)	BC
		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
ZnSO 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)	10	103.4	26.35	4.52	56916	18.40	--	2.27
NPKZn(175:60:60:25) (Recommended Practice)		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 indicator		%	Net Returns (Rs. in a)	BC Ratio
		Zn deficiency incidence(%)	Yield (t/ha)			
T1-Control (Farmers Practice)	10	16	27.5	20.0	337500	5.50
T2-Two spray of zinc sulphate (0.5%)& urea(1%) in the months of May-June & August - September (Recommended Practice)		1.2	33.0		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 165 with 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. Bio-fertilizers 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 Azotobactor 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./ha)	Increase in Yield (%)	B:C Ratio
NPKZn(60:30:0:0) (FP)	10	2.55	23.6	23.60	32.50	34230	--	2.30
NPKZn (125 :60 :30:25) +5ton compost/ ha. + Bio fertilizer (Recommended)		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 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 and transplanting against bolting problem	Field days and awareness programme	15	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.)**

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	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

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
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 loam	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	M	Wheat	05.07.2020 to 10.07.2020	25.9.2020 to 12.10.2020	--	--
Mustard	Rabi	Irrigated	Loamy sand & Sandy Loam	L	L	M	Bajra	16.10.2020 to 21.10.2020	14.03.2020 to 03.04.2020	--	--
Gram	Rabi	Irrigated	Loamy sand & Sandy Loam	L	L	M	Bajra	18.10.2020 to 26.10.2020	15.03.2020 to 26.03.2020	--	--
Gram	Rabi	Irrigated	Sandy loam	L	L	M	Bajra	18.10.2020 to 28.10.2020	15.03.2020 to 28.03.2020	--	--
Wheat	Rabi	Irrigated	Loamy sand	L	L	M	Bajra & Guar	10.11.2020 to 21.11.2020	27.03.2020 to 08.04.2020	--	--
Barley	Rabi	Irrigated	Loamy sand	L	L	M	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

Sl.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	

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

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)			Check	% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					High	Low	Average			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																			
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

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)				
					Demo	Check		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

Cereal crop													
Vegetable crop													
Fruit crop													
Other (specify)													

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

a) Vegetable Crops	--	--	--	--	--	--	--	--	--	--
Production of low value and high volume 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 Production	01	17	0	17	03	0	03	20	0	20
Total (a)	10	157	02	159	15	0	15	172	02	174
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) 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	--	--	--	--	--	--	--	--	--	--
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 Management										
Soil fertility management	01	13	0	13	02	0	02	15	0	15

bio pesticides										
Others (pl specify)	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
VIII Fisheries	--	--	--	--	--	--	--	--	--	--
Integrated fish farming	--	--	--	--	--	--	--	--	--	--
Carp breeding and hatchery management	--	--	--	--	--	--	--	--	--	--
Carp fry and fingerling rearing	--	--	--	--	--	--	--	--	--	--
Composite fish culture	--	--	--	--	--	--	--	--	--	--
Hatchery management and culture of freshwater prawn	--	--	--	--	--	--	--	--	--	--
Breeding and culture of ornamental fishes	--	--	--	--	--	--	--	--	--	--
Portable plastic carp hatchery	--	--	--	--	--	--	--	--	--	--
Pen culture of fish and prawn	--	--	--	--	--	--	--	--	--	--
Shrimp farming	--	--	--	--	--	--	--	--	--	--
Edible oyster farming	--	--	--	--	--	--	--	--	--	--
Pearl culture	--	--	--	--	--	--	--	--	--	--
Fish processing and value addition	--	--	--	--	--	--	--	--	--	--
Others (pl specify)	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
IX Production of Inputs at site	--	--	--	--	--	--	--	--	--	--
Seed Production	--	--	--	--	--	--	--	--	--	--
Planting material production	--	--	--	--	--	--	--	--	--	--
Bio-agents production	--	--	--	--	--	--	--	--	--	--
Bio-pesticides production	--	--	--	--	--	--	--	--	--	--
Bio-fertilizer production	--	--	--	--	--	--	--	--	--	--
Vermi-compost production	--	--	--	--	--	--	--	--	--	--
Organic manures production	--	--	--	--	--	--	--	--	--	--
Production of fry and fingerlings	--	--	--	--	--	--	--	--	--	--
Production of Bee-colonies and wax sheets	--	--	--	--	--	--	--	--	--	--
Small tools and implements	--	--	--	--	--	--	--	--	--	--
Production of livestock feed and fodder	--	--	--	--	--	--	--	--	--	--
Production of Fish feed	--	--	--	--	--	--	--	--	--	--
Mushroom Production	--	--	--	--	--	--	--	--	--	--
Apiculture	--	--	--	--	--	--	--	--	--	--
Others (pl specify)	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
X Capacity Building and Group Dynamics	--	--	--	--	--	--	--	--	--	--
Leadership development	--	--	--	--	--	--	--	--	--	--
Group dynamics	--	--	--	--	--	--	--	--	--	--
Formation and Management of SHGs	--	--	--	--	--	--	--	--	--	--
Mobilization of social capital	--	--	--	--	--	--	--	--	--	--
Entrepreneurial development of farmers/youths	--	--	--	--	--	--	--	--	--	--
WTO and IPR issues	--	--	--	--	--	--	--	--	--	--
Others (pl specify)	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
XI Agro-forestry	--	--	--	--	--	--	--	--	--	--
Production technologies	--	--	--	--	--	--	--	--	--	--
Nursery management	--	--	--	--	--	--	--	--	--	--
Integrated Farming Systems	--	--	--	--	--	--	--	--	--	--
Others (pl specify)	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
GRAND TOTAL	81	944	226	1170	133	111	244	1077	337	1414

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	01	14	0	14	0	0	0	14	0	14
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	--	--	--	--	--	--	--	--	--	--
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 for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	01	14	0	14	0	0	0	14	0	14
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	--	--	--	--	--	--	--	--	--	--
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)

Area of training	No. of Courses	No. of Participants								
		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 – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		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

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 camps (Number of animals treated)	--
Others (pl. specify)	--
Total	104

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
Rewari(HR)	Text only	31	--	01	--	26	06	64
	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			
	Distribution of Literature (No.)	12	740	ICM, INM & IPM in rabi & kharif 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	--	--	--	--	--	--
	--	--	--	--	--	--
	--	--	--	--	--	--
Others	--	--	--	--	--	--
	--	--	--	--	--	--
	--	--	--	--	--	--
Total	--	--	--	--	--	--

Production of Bio-Products

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

Table: Production of livestock materials

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

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

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 (No.)	Visit by officials (No.)
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--

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
	--	--	--	--
	--	--	--	--
	--	--	--	--
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 units (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 program 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 stower 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:- TM 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 TM 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 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 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 extension activity					
Name of activity	Training	Field days	Swachhata Pakhwada	Parthenium week	Kitchen Gardening
No. of Programme	17	06	01	01	01
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)
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./ha	No. of bed/Animal/plant	Production (Kg)	Net return from 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. No.	Title	No.	Date	No. of Participants
1	Nutri garden	200	8.3.2020 & 17.9.2020	200

B-Training's				
Sr. No.	Title	Village	Date	No. of Participants
1	Layout plant of Poshan vatika	Khaliyawas	16.1.2020	23
2	Layout plan of Kitchen garden	Dhawana	17.3.2020	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. No.	Title	Village	Date	No. of Participants
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