ANNUAL PROGRESS REPORT

(January-2021 to December-2021)

KRISHI VIGYAN KENDRA

Muradgram Purpursi, Muradnagar, Ghaziabad

Directorate of Extension

Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut

PROFORMA FOR PREPARATION OF ANNUAL REPORT (January-2021-December-2021)

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	44	779	81	860
Rural youths	09	90	37	127
Extension functionaries	13	149	46	195
Sponsored Training	03	140	10	150
Vocational Training				
Total	**69**	**1158**	**174**	**1332**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	36	20	
Pulses	89	40	
Cereals	35	14	
Vegetables	05	01	
Other crops	10	02	
Hybrid crops	**175**	**77**	
Total			
Livestock & Fisheries	03		2000
Other enterprises	25		25
Total	**28**		**2025**
Grand Total	**203**	**77**	**2025**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	06	06	31
Livestock	01	01	03
Various enterprises	01	01	05
Total	**08**	**08**	**39**
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	**08**	**08**	**39**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	3325	9793
Other extension activities	07	2031
Total	**3332**	**11824**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Awar eness	Other enterpri se	Total
Ghaziabad	Text only	30	08	02			16	**56**
	Voice only	14	04	06			11	**35**
	Voice & Text both	44	12	08			27	**91**
	Total Messages							
	Total farmers Benefitted							

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	183.20	421360.00
Planting material (No.)	12680	1340.00
Livestock Production (No.) Egg+Meat		
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples	Source of Sample		Total health card issued	Value Rs.
Soil sample	Farmers	341	341	18120.00
Water	Farmers	06		180.00
Total		**347**	**341**	**18300.00**

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	06
2	Conferences	05
3	Meetings (NEP, IARI)	03
4	Trainings for KVK officials	02
5	Visits of KVK officials	10
6	Book published	03
7	Training Manual	01
8	Book chapters	03
9	Research papers	
10	Lead papers	
11	Seminar papers	
12	Extension folder	04
13	Proceedings	08
14	Award & recognition	
15	On going research projects	

ANNUAL PROGRESS REPORT
((Jan.2021 to Dec. 2021)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Muradgram Purpursi Murad Nagar, Ghaziabad- 201 206 UP			ghaziabadkvk@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
SVPUA & T Modipuram, Meerut-250110 (UP)	0121-2888540, 2888511	0121-2888511	desvpuat2014@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Arvind Kumar (Officer –in-Charge)		7355274516	**ghaziabadkvk@gmail.com**

4. Year of sanction: 1992

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

Sl. No.	Sanctioned post	Name of the incumbent	Design -ation	Discip-line	Pay Scale (Rs.)	Present basic (Rs.) 31.12.2021	Date of joining	Perman-ent /Temp-orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Programme Coordinator	**Vacant**										
2	Subject Matter Specialist	Smt. Anita Yadav	SMS /Astt.Prof	Home Science		171400.00	29-07-1995	Permanent	OBC	09968048826	53	pranavyadav32@gmail.com
3	Subject Matter Specialist	Dr. Arvind Kumar	Asso Dir/ Asso. Prof.	Plant Protection		147900.00	10-12-2003	Permanent	O.B.C.	09410443028	48	arvindkvk@rediffmail.com
4	Subject Matter Specialist	Dr. Anant Kumar	SMS /Astt.Prof	Horti.		98200.00	23.06.2008	Permanent	SC	09837559055	47	dr.anantkumar1@gmail.com
5	Subject Matter Specialist	Dr. D.K. Sachan	SMS /Astt.Prof	Agronomy		98200.00	27.06.2008	Permanent	OBC	9868258098	56	sachandharmendra66@gmail.com
6	Subject Matter Specialist	Dr. Pramod Kumar	SMS /Astt.Prof	Animal Science		87300.00	23.06.2008	Permanent	OBC	8630295699	50	pramodk201070@rediffmail.com
7	Subject Matter Specialist	**Vacant**										
8	Programme Assistant	**Vacant**										
9	Computer Programmer	Sh. Pushapandra Kr. Rathi	Programme Assistant	Computer		53600.00	26.12.08	Permanent	OBC	9411477406	43	pushrathi1978@gmail.com
10	Farm Manager	Sh. Suraj Bhan	Training Asstt. Agron.	Agronomy		87700.00	17.02.1995	87700.00	OBC	9412146644	54	surajbhan.kvk@gmail.com
11	Accountant / Superintendent	Sh Praveen Kumar Agarwal	Office Supdt/ Accountant	Accountant		53600.00	26.12.2008	Permanent	Others		43	
12	Stenographer	Sh.Y. K. Sharma	Steno/Computer Operator	Steno		41600.00	27.07.2007	Permanent	Others		51	sharmayks71@gmail.com
13	Driver	**Vacant**										
14	Driver	Sh. Kanwar Pal	Driver	Driver		32300.00	27-07-2007	Permanent	OBC		42	
15	Supporting staff	Sh. Sanjeev Kumar	Clerk/ disc.	Clerk/ disc.		32300.00	24.07.07	Permanent	Gen		52	
16	Supporting staff	Sh. Neeraj Kumar Yadav	Peon/Security Gauard			32300.00	09-12-2003	Permanent	OBC		43	

1.6. Total land with KVK (in ha) : 17.56

S. No.	Item	Area (ha)
1	Under Buildings	1.26
2.	Under Demonstration Units	0.16
3.	Under Crops	5.0
4.	Orchard/Agro-forestry	Nil
5.	Others (Barren land-Saline)	10.60

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	-	510.00	43.65	--	-	-
2.	Farmers Hostel	ICAR	-	300.00	22.92	--	-	-
3.	Staff Quarters (6)	ICAR	-	400.00	26.72	--	-	-
4.	Demonstration Units (2)	ICAR	-	160.00	11.06	--	-	-
		ICAR	-	2000 running meter	38.43	--	-	-
5	Fencing	-	-	-	8.26	--	-	-
6	Rain Water harvesting system	ICAR	-	300.00	2.34	--	-	-
7	Threshing floor	ICAR	-	60.00	3.63	--	-	-

* Locking tile roads have been constructed in the KVK Campus with an expenditure of 28.0 Lakhs by Gram Panchyat. Pur pusi Muradnagar, Ghaziabadin the year 2019

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero	2009	507000.00	163329	Very poor condition, in NCR region the vehicle is not allowed to run
Tractor	2005	3,44,500	6500 Hrs	Poor condition
Motar cycle	2006	40,871	65556	Very Poor condition
Bicycle	2007	2375	-	Very Poor condition
Motar Cycle	2010	50000	45230	Good condition condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Steel Almirah (Two)	16.04.1996	4550.00	Poor conditions
Senior Office Table (One)		3201.00	Poor conditions
Office Table (Seven)		14840.00	Poor conditions
Office Table (One)		1030.00	Poor conditions
Office Chair with foam seat back (Eight)		4064.00	Poor conditions
Office Chair (22)		6248.00	Poor conditions
Steel bench (Two)		754.00	Poor conditions

Total		**34687.00**	
Discount ½%		173.45	
		34573.55	
Trade Tax @ 15%		5177.05	
Grand Total		**39690.60**	
Typewriter (Hindi) One	14.06.1996	9908.35	Poor condition
Ceiling Fan (Two)	28.04.1999		Poor condition
Zero Till ferti seed drill	13.11.1999		Poor condition
Tractor drawn Sugar can cutter planter (Two Row)	03.02.2000		Poor condition
Xerox Machine	19.02.2000		Poor conditions
One Computer, with Table & Chair (old)	13.03.2000		Poor conditions
Ceiling Fan (Six)	23.03.2002	5658.00	Poor condition
Computer P4, HP 6089,Slide Projector, Screen	25.03.2004		Poor condition
Inverter Sukan 760VA, Battery 12 V/165Ah	31.03.2004	10000.00	Poor condition
H.P.Digital Camera	31.03.2004	19656.00	Poor condition
H.P.Scanner	31.03.2004	15500.00	Good condition
Steel Almirah, Book case	31.03.2005	10856.00	Good condition
Tractor Sonalika	15.07.2005	344500.00	Good condition
HP laserjet Printer	21.12.2005	9999.00	Poor condition
Motor Cycle Hero Honda	31.03.2006	40871.00	Good condition
O.H.P.	13.06.2007		Good condition
Herro 14 disk lift baring,Cultivator 11 Tyne spring loaded, Bund maker Leveler 7 fut	27.09.2006	49035.00	Good condition
Book case1675X840X305mm (Two)	22.03.2007	7258.00	Good condition
Panasonic LCD Multimedia Projector	30.03.2007	64125.00	Good condition
S.D. Memory Card Complete with Grd Reader	30.03.2007	4000.00	Good condition
U.P.S. Microtek 800 VA 135378	25.05.2007	2490.00	Poor condition
U.P.S.	13.06.2007		Poor condition
Tractor trolly	06.08.2009	122018.00	Good condition
Furniture (Adam. Building)	23.03.2009	280131.00	Good Condition
Furniture (Farmer hostel)	23.03.2009	259006.00	Good Condition
Utensil etc	25.03.2009	33695.00	Good condition
A.C. 1.5 ton	25.03.2009	22500.00	Good condition

1.8. A). Details SAC meeting held on 29.12.2021

S.No.	Name of designation	Suggestion by the SAC Members	Action taken
1.	Dr. Gopal Singh, Joint Director Extension, Sardar Vallabhbhai Patel Univ. of Agriculture. & Technology, Meerut	Suggested that create awareness among the farmers to stop the business of crop residue.in EF training programme anaganwadi worker should be included and focuced on flouriculture.	**Action Taken to be done in 2022**
2.	Dr. Gopal Singh, Joint Director Extension, Sardar Vallabhbhai Patel Univ. of Agriculture. & Technology, Meerut	Suggested that one crop /technology should be promoted in one village / area. Cow based natural farming should be fouced in every programme.	
3.	Dr. Gopal Singh, Joint Director Extension, Sardar Vallabhbhai Patel Univ. of Agriculture. & Technology, Meerut	Director Extension told that three times production recorded in the state travels planting of sugarcane so that the large amount of demonstrate and training should be organized.	
4.	Dr. S.K Khari, Prof. Sardar Vallabhbhai Patel Univ. of Agriculture. & Technology, Meerut	suggested that the demonstration and training should be organized on intercropping in sugarcane with mari gold.	
5.	Dr. S.K. Khari, Prof. Sardar Vallabhbhai Patel Univ. of Agriculture. & Technology, Meerut	suggested that the ashwagandha & satawar are very useful for women so that these plants should be included in Kitchen garden.	
6.	District Plant Protection officer, Ghaziabad	Advised that Dispiribach sodium insecticides dose ear should be increased.	
7.	Sh.Pramod Tyagi, Agriculture Entrepreneur	Sh.Pramod Tyagi suggested that the trainings and demonstrate should be organized on zero tillage.	
8.	Sh. C.K. Gautam, DDM Nabard	suggested that the trainings on multilayer farming should be organized on the centre.	

2. DETAILS OF DISTRICT (2021)

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

S. No	Farming system/enterprise
1	Crop Production.+ Dairy
2	Crop Production + Dairy +Horticulture (Olericulture and Floriculture)
3.	Crop Production + Dairy +Horticulture + Apiculture
4.	Crop Production + Dairy +Horticulture+ Apiculture +Poltry/Fishries/Mushroom.Vermi compost

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

S. No	Agro-climatic Zone	Characteristics
1	Western Plain Zone	Average rain fall 795 mm. Maximum temp. 37^0-$42^{0\,C}$ Minimum temp. 4.5^0C-6.9^0C Relative Humidity- 32-85% Soil-Sandy Loam , Loam, Clay Cropping Intensity -157%

2.3 Soil type/s

S. No.	Soil type	Characteristics		Area in (ha)
		pH	(N P K) Crop	
1	Loam to Sandy Loam (AES I)	7.5-8.5	187.38, 53.7, 7.46 Sugarcane, Wheat, Paddy,	79910.00
2.	Sandy Loam (AESII)	7.0-7.5	99.49, 33.12 9.27 Sugarcane, Wheat, Paddy, Mustard, Sorghum	82954.00
3.	Sandy/Sandy Loam (AESIII)	7.5-8.0	125.71, 39.29 8.16 Sugarcane, Wheat, Paddy, Sorghum(Fodder)	80192.00
4.	Alkaline/Saline (AESIV)	8.7-9.7	129.27, 51.88 5.08 Wheat, Paddy, Vegetable, Sorghum (Fodder)	26911.00

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

	Crop	Area(ha)	Production(Qtl)	Productivity(Qtl/ha)
Kharif	Paddy	24794	626540	25.27
	Bajra	326	5720	17.55
	Maize	1803	49950	27.26
	Sorghum	8	70	8.21
	Urd	595	3290	5.52
	Moong	36	-	3.74
	Arhar	2218	17090	7.71
Rabi	Wheat	76121	3060710	40.21
	Barly	589	21170	35.95
	Chickpea	5	50	9.89
	Pea	13	160	12.03
	Lentil	234	2060	8.82
	Rape seed &Mustard	2431	26920	11.08
	Potato	4249	963090	226.13
Zaid	Urd	93	570	6.13
	Moong	118	810	6.89
	Maize	49	750	15.32
	Sugarcane	63396	33975180	535.92

2.5. Weather data

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)
		Maximum	Minimum	
April-16	10.50	42.2	13.0	62
May-16	13.30	42.2	19.5	63
June-16	70.70	40.0	20.0	58
July-16	201.30	35.0	24.0	53
August-16	190.40	36.0	31.0	65
Sept.-16	136.90	36.5	31.5	68
Oct. 16	19.90	28.8	23.0	65
Nov.-16	2.10	22.0	18.0	62
Dec.-16	9.5	18.0	16.0	70
Jan.2017	0.50	16.0	14.0	85
Feb.2017	18.47	22.0	16.0	80
March-2017	4.96	29.5	18.0	60

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

Category	Population	Production	Productivity
Cattle	91901		
Crossbred	55825	Not Available	Not Available
Indigenous	36076		
Buffalo	475763		
Sheep	911		
Crossbred	127		
Indigenous	784		
Goats	50823		
Pigs	9149		
Crossbred	2322		
Indigenous	6827		
Poultry			
Hens	40459		
Turkey and others	1380		
Category	**Population**	**Production**	**Productivity**
Fish	73.12 area in ha.	352 Quintal	-
	16.00	862 Quental	-

2.7 Details of Operational area / Villages

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust area
1.	Modinagar	Murad nagar	Rawali Dhendha, Nekpur	Paddy, Urd, Pigeon pea Wheat, Mustard, Sugarcane Vermin compost Nutrition garden Paddy, Urd.	• Pod borer in Chickpea & Pigeon pea • Top borer and white grub in Sugarcane • Inadequate nutrients in take in daily diets • Stem borer & Bacterial blight in Basmati Rice.	To transfer technology and knowledge of new fungicide, insecticide, pesticide To transfer the improve technology for reducing infestation of insect & pest. Balance Nutrition in rural women & children.
2.	Ghaziabad	Raja pur	Chitora, Kushalia Kannuja	Paddy, Urd, Pigeon pea, Wheat, Mustard, Pea, Beekeeping, Vermi-compost,	• Stem borer & Bacterial blight in Basmati Rice • Pod borer in Chickpea & Pigeon pea • Top borer and white grub in Sugarcane	• Low in take of proper nutrients in diet • To transfer the improve technology for reducing infestation of insect & pest

		Bhoj pur	Amirpur-Badhayla, Kalchhina, Talahta	Sugarcane, Paddy,Green gram,poultry	• Unbalanced Use of fertilizer in Sugarcane ,Paddy wheat , • Insect and disease problem in sugarcane, paddy	• Intigrated Nutrient Managenment • Intigrated pest Management • Pulses production
		Loni	Mevla Bhatti, Sirora	Paddy, Wheat, Jowar, Green gram,Poultry	• Unbalanced Use of fertilizer in Sugarcane ,Paddy wheat • Insect and disease problem in paddy	• Intigrated Nutrient Managenment • Intigrated pest Management • Pulses production

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Pulses	Introduction of new high yielding varies of Green gram and Black gram , IPM for pod borer control and introduction of new varieties.
Oilseed	INM for higher and quality productionand introduction of new varieties
Paddy	IPM for stem borer, sheath blight and blast management, INM
Sugarcane	INM for higher production and soil health.,IPM for white grub and early top borrer
Nutritional gardening	Introduction of exotic veg. and fruits plants
Vegetables	Introduction of improved & hybrid varieties.
Soil health	Organic matter enhancement through Green manuring, soil sampling,
Livestock	Feed &fodder management, animal health service, desi poultry

2.9 Intervention/ Programmes for the doubling the farmers income – during 2021 **Demonstrations**

Before Interventions	**Main crop Yield(q/ha)**	**Inter crop Yield(q/ha)**	**Equivalent Yield(q/ha)**	**Cost of cultivation(Rs/ha)***	**Net income(Rs/ha)**	**B.C: Ratio**	**Remark if any**
Intercropping System(Kharif-Rabi-Zaid) –Livestock etc.							
Zaid (Sugarcane mono crop)	875.0		875.0	89000.00	195375	3.2 :1	
After Interventions							
Zaid (Sugarcane + 12french bean)	945.0	195.0	1273.0	99500.00	314225	4.15:1	

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

Before Interventions	**Main crop Yield(q/ha)**	**Inter crop Yield(q/ha)**	**Equivalent yield(q/ha)**	**Cost of cultivation(Rs/ha)***	**Net income(Rs/ha)**	**B.C: Ratio**	**Remark if any**
Mono Cropping System(Kharif-Rabi-Zaid) –Livestock etc.							
Sugarcane(zaid)	720.0	Nil	Nil	137500	96500	1.7:1	
After Interventions	**Main crop Yield(q/ha)**	**Inter crop Yield(q/ha)**	**Equivalent yield(q/ha)**	**Cost of cultivation(Rs/ha)***	**Net income(Rs/ha)**	**B.C: Ratio**	**Remark if any**
Zaid sugarcane intercropped with green gram	820.0	6.2	934.5	142500	161213	2.13:1	

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

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

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

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

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

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

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

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

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

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

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

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

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *
Note- Same format may be used for OFT.

I. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2021

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
12	08	60	49	40	77	100	**203**

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	**60**	44	1200	860	2000	3325	12000	11824
Rural youth	**20**	09	225	127				
Extn. Functionaries	**20**	13	300	195				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	183.20		20000	12680	97

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*
Varietal assessment	wheat	Var.HD-3086	01	06
	Rice	Var.Pusa 1612	01	05
Integrated Nutrient Management				
Integrated Pest Management	Okra	Corazen and Tricocard for management of fruit borer in Okara	01	05
	Paddy	Thaimethozam 25WDG@250g/ha for management of Brown Plant Hopper in Paddy	01	05
Integrated Crop Management/ Cropping system	Tomato	Improved new and high yielding variety of tomato var. 5013.	01	05
	Cabbage	Improved new and high yielding variety of cabbage var. s-92.	01	05
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology	Vegetable	Sale of Leafy vegetable in very low price	01	05
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Post Harvest Technology / Value addition				
Drudgery Reduction				
Others (Pl. specify) - Mal nutrition	Malnutrition	Assessment of SOY n PRO mixture on the nutritional health of children/ Pregnant women suffering from malnutrition	01	05
Total			**08**	**41**

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	Poultry	Kadak nath and Vanraja	01	03
Feed and Fodder management				
Nutrition Management				
Production and Management				
Others (Pl. specify)				
Total			**01**	**03**

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 REFINEMENT

Summary of technologies refined under various crops by KVKs

Thematic areas	Crop	Name of the technology refined	No. of trials	No. of farmers
Integrated Nutrient Management				
Varietal Evaluation				
Integrated Pest Management				
Integrated Crop Management				
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Total				

Summary of technologies refined under various livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology refined	No. of trials	No. of farmers
Disease Management				
Evaluation of Breeds				
Feed and Fodder management	Cow	UMMB (Urea molasses mineral block) use as animal feed supplement	05	05
Production and Management				
Total			**05**	**05**

Summary of technologies refined under various enterprises by KVKs

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

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

OFT:- 1

Problem definition: ***Low yield*** *due to use of old variety of tomato.*

Technology Assessed: *Evaluation of high yielding variety of tomato.*

KVK, Muradnagar, Ghaziabad U.P. conducted on-farm trial to ***assessed*** *evaluation of high yielding variety of tomato. The varietal demonstration of tomato a net return Rs. 3.04lakh/ha.*

Table Fruit size and high yielding variety assessment of tomato .

Technology Option	*No.of trials*	*Yield (qt/ha)*	*Increase in yield(%)*	*Net Returns (Rs./ha)*	*BC Ratio*
T1- Select low yielding variety and poor vase life variety (Farmer`s Practice)	*05*	***290***	***-***	***185000.00***	***3.5:1***
T2- Nagaur.		***462***	***59.30***	***307700.00***	***4.6:1***

MALNUTRITION

OFT:- 2 -

Title : Assessment of SOY n PRO mixture on the nutritional health of children suffering from malnutrition.

Problem definition: Malnutration (Protein calorie) among children 3-5year

Technology Option	No. of trials	Anthropometric measurement • **Weight** • **Mid arm circumference.** • **Chest circumference**	Data on Parameters	Result on asssessment	Feedback from the children
Farmer Practice T1: Milk, Ghee and Cereals use of local food	*05*	-	Average increase after 3 months 1.Weight – 1-2 kg 2. Mid arm circumference – no difference 3. Chest circumference – no difference	Increase in Weight Mid arm circumference. Chest circumference was observed	Children dislike SOY 'N' PRO mixture, due to its bad taste.
T 2: SOY 'N' PRO mixture, Milk, Ghee and Cereals		Increase Anthropometric measurement • Weight • Mid arm circumference. • Chest circumference	Average increase after three month • **Weight- 3-4 kg** • **Mid arm - circumference-0.9 cm** **Chest circumference-0.44 c**		

INTEGRATED CROP MANAGEMENT

OFT :-3

Problem Identified: *Low yield of wheat due to use of old varieties.*

Technology Assessed: .

Table: performance of DBW-88 under Ghaziabad condition.

Technology Option	***No.of trials***	***Yield (q/ha)***	***Net Return Rs./ha***
T1- DBW-16(farmers practice)	*05*	***48.9***	***114915***
T2- DBW-88		***52.8***	***124080***

OFT :-4

Problem Identified: *Low yield of wheat due to use of old varieties.*

Technology Assessed: .

Table: performance of wheat var DBW-222 under Ghaziabad condition.

Technology Option	***No.of trials***	***Yield (q/ha)***	***Net Return Rs./ha***
T1- DBW-17(farmers practice)	*06*	***Result Awaited***	
T2- DBW-222			

OFT :-5

Problem Identified: *Low yield of rice due to use of old varieties.*

Technology Assessed:

Table: performance of Pusa Var under Ghaziabad condition.

Technology Option	*No.of trials*	*Yield (q/ha)*	*Increase in yield(%)*	*Net Return Rs./ha*	**BC Ratio**

Seed could not be available so the trail could not be conducted.

OFT :-6

Problem definition: *Low yield due loose head of Cabbage*

Technology Assessed: Compact and high *yielding variety of cabbage*

KVK, Muradnagar, Ghaziabad U.P. conducted on-farm trial to ***assessed*** *evaluation of high yielding variety of Cabbage . The varietal demonstration of Cabbage a net return Rs. 2.51 lakh/ha.*

Table Performance of *Cabbage* ***variety- S-92improved***

Technology Option	*No. of trials*	*Yield (q/ha)*	*Increase in yield(%)*	*Net Returns (Rs. /ha)*	**BC Ratio**
T1 Select low yielding variety and loose head variety (Farmers Practice) Golden acre	*05*	*220.00*	*-*	*135000*	*3.1:1*
T2- High yielding and compact head variety- S-92 improved		*307.5*	*39.7*	*208750*	*4.1:1*

PEST AND DISEASE MANAGEMENT

OFT :-7

Problem definition: *Heavy infestation of fruit borer in Okra in a yield loss of 20% and income loss of Rs.8000/ha*

Technology Assessed : Evaluation of Corogen @ 150ml /ha +Tricho card @100000egg/ ha for management of *fruit borer in Okra*

Okra is an important commercial crop of vegetable. However, there is high infestation of fruit borer resulting in yield loss. The refined technology to control the insect is spray of Corogen @ 150ml /ha *& subsequent spray after 10 days + use of trico card @ 1 lacs egg/ha (Tricograma chlonis egg parasitoid) at the time pre flowering stage. The percentage of insect infestation from 13 to 6 and yield was increased by 20.00 per cent.*

Table Effect of various treatments on management of fruit borer in Okra

Technology Option	*No. of trials*	*infestation from furit borer (%)*	*Yield (q/ha)*	*% Increase in yield over farmer's practice*
Emedachlopid @ 0.5 ml/lt. water (Farmer practice)	*05*	*13*	*135*	--
Tricho card @100000egg/ha at the ime of 1st flowering + *spray of* Corogen @ 150ml /ha & subsequent spray after 10 days		*6*	*162*	*20.00*

OFT :-8

Problem definition: *Heavy infestation of Brown Plant Hopper causing 20 to 45 % of crop loss*

Technology Assessed: *Effective management of Brown Plant Hopper in Paddy*

Paddy is an important commercial crop of western U.P.. However, there is high infestation of Brown Plant Hopper in Paddy resulting in high yield loss. The technology to control the insect is spray of Imidacloprid 17.8SL @0.250 lit/ha *water @ time of the milking stage & subsequent spray after 10 days and spray of thiomexone @250gm/ha* was assessed. *The percentage of white ears was reduced through spray of thiomexone*.

Table Effect of different insecticide on control of BPH

Technology Option	***No. of trials***	***White ears (%)***	***No.of BPH per plant***	***Yield (q/ha)***	***% Increase in yield over farmer's practice***
Farmer Practice (Imidacloprid 17.8SL @0.250 lit/ha)	*05*	*9*	*5*	*42.88*	--
thiomexone @250gm/ha		*6*	*3*	*48.60*	*11.60*

LIVE STOCK ENTERPRISES

OFT :-9

Problem definition: Price fluction and low income from poultry**.**

Problem Assessed :- Low income due to mortality.

Technology Assessed: assement of dual purpose of poultry breeds.

Table-

Technology option	**No, of Trials**	**Production per unit**	**Lactation period in days (Avg.)**	**Net return (profit) in Rs/unit**
T-1 Farmer Practice (Unidentified)	03	Result awiated		
T-2 - Kadaknath				

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2021 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
Crop production							
1	Rice	INM	Balanced use of fertilizers in Rice 120:60:60:25(N:P:K:Zn)	Trainings,Goshthies,group discussions, Radio/T.V. Talks, Extension literatures and indivisual contacts	10	100	35
2	Summer Green gram (CFLD)	ICM	Var. IPM-2-3 with recommended package of agronomic practices .	Trainings,Goshthies,group discussions, Radio/T.V. Talks, Extension literatures and indivisual contacts	21	170	70
3.	Kharif Black gram (CFLD)	ICM	Var. PU-31 with recommended package of agronomic practices.	Trainings,Goshthies,group discussions, Radio/T.V. Talks, Extension literatures and indivisual contacts	08	40	16
Horticulture							
1	Red Cabbage	Varietals Performance	High yielding variety of premero	Demonstration, training	03	05	0.5
2	Cauliflower	INM	Balance use of fertilizer (boron)	Demonstration, training	05	10	2.0
3	Chrysanthemum	Varietals Performance	High yielding variety of white star/yellow star	Demonstration, training	02	05	1.0
4	Merigold	Varietals Performance	High yielding variety of pusa narangi	Demonstration, training	03	05	1.0
Live Stock Production							
12.	Poultry	Feed management	Balance Feed management	Method demonstration & Literature	03	20	-
13.	Kitchen Garden	House hold food security	Improved variety seed of vegetable	Muft demonstration	10	20	0.8
Plant Protection							
14	Paddy (control of stem borer)	IPM	Application of cartaf hydrochloride @ 18kg/ha + Tricocard @ 5 cards/acre	Method demonstration & Literature	05	25	10.0
15	Wheat (Yellow rust control)	IDM	Seed treatment through vitavax 75 WP@ 3g/kg seeds+ Spray of Tabuconazole 0.1%	Method demonstration & Literature	04	10	4.0

b. Details of FLDs implemented during 2020 (Information is to be furnished in the following)

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	
Crop Production										
1.	Rice	INM	Balanced use of fertilizers in Rice 120:60:60:25(N:P:K:Zn)	Kharif 2020	4.0	4.0		10	10	
2.	Wheat	INM	Balanced use of fertilizers in Wheat 150:80:40:25(N:P:K:Zn)	Rabi-2019-20	4.0	4.0		10	10	
3.	Wheat	INM	Balanced use of fertilizers in Wheat 150:80:40:25(N:P:K:Zn)	Rabi-2020-21	4.0	4.0		10	10	
4.	Lentil (CFLD)	ICM	Var. PL-8 with recommended package of agronomic practices	Rabi 2019-20	20	20		48	48	
5.										
5.	Black gram(CFLD)	ICM	Var. PU-31 with recommended package of agronomic practices	Summer 2019	10	10		10	10	
6.										
5.	Black gram(CFLD)	ICM	Var. PU-31 with recommended package of agronomic practices	Kharif 2019	10	10		22	22	
Horticulture										
1	Red Cabbage	Varietals Performance	High yielding variety of premero	Rabi 19-20	1.0	0.5	-	05	05	
2	Cauliflower	INM	Balance use of fertilizer(boron)	Kharif 2020	2.0	2.0	01	09	10	NA
3	Chrysanthemum	Varietals Performance	High yielding variety of white star/yellow star	Kharif 2020	1.0	1.0	01	04	05	NA
4	Merigold	Varietals Performance	High yielding variety of pusa narangi	Zaid 2020	1.0	1.0	02	03	05	NA
Live Stock Production										
1	Oat	Feed & fodder management	New improved vaeity-Kent	Rabi 19-20	1.0	1.0	06	04	10	No
2	Dairy	Livestock management	Feeding of mineral mixture @ 50 g/day/animal+Dewormer	Rabi 19-20	20 Animal	15 Animal	05	10	15	
Home Science										
1	Kitchen Garden	House Hold food security	Improved variety seed	Kharif-2020	0.02	0.02	-	06	06	No
2	Kitchen Garden	House Hold food security	Improved variety seed	Rabi-19-20	0.02	0.02	-	06	06	No
Plant Protection										

1	Paddy (control of stem borer)	IPM	Application of cartaf hydrochloride @ 18kg/ha + Tricocard @ 5 cards/acre	Kharif 2020	10	10	05	20	25	No
2	Wheat (Yellow rust control)	IDM	Seed treatment through vitavax 75 WP@ 3g/kg seeds+ Spray of Tabuconazole 0.1%	Rabi-19-20	4	10	02	08	10	No

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					
Crop Production												
1.	Rice	Kharif 2020	Irrigated	Loam	L-M	M	M	Wheat	01-07.06.20	25-30.10.2019	457	47
2	Lentil (CFLD)	Rabi 2020-21	Irrigated	Loam	L-M	M	M	Rice,Sorghum (Fodder)	01-12.11.2018	22-30.03.2019	66	5
3.	Black gram(CFLD)	Summer 2020	Irrigated	Loam	L-M	M	M	Mustard, Sugarcane, Wheat	06-15.04.2019	22-30.06.2019	0	0
4	Green gram(CFLD)	Summer 2020	Irrigated	Loam	L-M	M	M	Mustard, Sugarcane, Wheat	06-15.04.2019	22-30.06.2019	0	0
5	Black gram(CFLD)	Kharif 2020	Irrigated	Loam	L-M	M	M	Wheat, Sorghum (Fodder)	22-28.08.2019	05-15.11.2019	457	47
Horticulture												
3	Red Cabbage	Rabi 20-21	Irrigated	Loam	L	L	M	Cucumber	02-10.11.2020	10-20.01.2020	60	02
4	Cauliflower	Kharif 2021	Irrigated	Sandy Loam	L	L	M	Okra	01-15.07.2020	05-20.11.2020	480	36
5	Chrysanthemum	Kharif 2021	Irrigated	Sandy Loam	L	L	M	Cucumber	01-12.07-2020	01 Nov to 15Dec, 2020	480	36
6	Bottle guard	Zaid 2021	Irrigated	Loam	L	L	M	Potato	25 Feb, 07 to March 2020	Awaited	20	02
Live Stock Production												

14.	Oat	Rabi 20-21	Irrigated	Sandy Loam	M	M	L	Paddy	09-11-20	15-12-20 & 20-01-20	40	07
15	Dairy	Rabi 20-21	Irrigated	Sandy Loam	M	M	L	-	15-12-20	-	30	05
Plant Protection												
17	Paddy (control of stem borer)	Kharif 2021	Irrigated	Sandy Loam	M	M	L	Jawar	11-07-20	03-11-20	600	17
18	Wheat (Yellow rust control)	Rabi-20-21	Irrigated	Sandy Loam	M	M	L	Sugarcane	22-11-20	-	30	2
Farm Implements												

Technical Feedback on the demonstrated technologies

S. No	Crop	Feed Back
Crop Production		
1.	Rice	Percentage of unfilled grains wa higher,deficiency of other macro and micro nutrientsis seemed to be workout .
2	Lentil (CFLD)	Infestation of wilt observed
3.	Summer Black gram(CFLD)	5-10% infestation of YMV observed ,no of pods observed low as compared to no of flowers set
4	Summer Green gram(CFLD)	10-20% infestation of YMV observed
5	Kharif Black gram(CFLD)	10-15% infestation of YMV observed ,More veg. growth low pods observed
6.		
Horticulture		
1	Red Cabbage	Compact and high yielding variety
2	Cauliflower	White and compact head
3	Chrysanthemum	Attractive and high marketable demand
4	Bottle guard	High yielding variety
Plant Protection		
1	Paddy (control of stem borer)	Infestation of stem borer in paddy can be control through bio-control and it good for environment.
2	Wheat (Yellow rust control)	Yellow rust incidence in wheat can be minimized through seed treatment as well as folier application of fungicide even in susceptible varieties.
Home Science		
1	Kitchen Garden	Available seasonal fresh vegetable through out the year and yield will be increased upto 20%
Live Stock Production		
1	Oat	Use of oat to increase milk production and health of animal and it content carbohydrate and protein to reduce the balance diet of animal.
2	Dairy	It is used to help for increase milk production and improve the fertility of animals and health

Farmers' reactions on specific technologies

S. No	Crop	Feed Back
1.	Rice	Appreciated for higher yield ,less pests infestation.
2	Lentil (CFLD)	Problem of wilt but good return
3.	Summer Black gram(CFLD)	High infestation of Bihar Hairy Catterpillar even at three to five leaves stage, problem of Niel Gay
4	Summer Green gram(CFLD)	High infestation of Bihar Hairy Catterpillar even at three to five leaves stage problem of Niel Gay
5	Kharif Black gram(CFLD)	More veg. growth low pods
6.		
Horticulture		
7	Red Cabbage	High demand of Red cabbage in the market of Ghazipur Delhi.
8	Cauliflower	White and compact curd for use of Boron
9	Chrysanthemum	Large and attractive flower variety of White star and gold star
10	Bottle guard	Result awaited.
Plant Protection		
11	Paddy (control of stem borer)	Bio-control agent i.e. tricocards availability is limiting factors for control of stem borer in paddy
12	Wheat (Yellow rust control)	Vary good result of seed treatment was observed but folier application is difficult due to lack labour availability.
Home Science		
13	Kitchen Garden	80% farmers are interested in growing nutrition garden
Live Stock Production		
18	Oat	Farmer like barseem fodder compare to other fodder because they content more palpable.
19	Dairy	To improve the health and milk production

Extension and Training activities under FLD

Crop Production

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	02	04.04.2020and 05.04.2020	50	-
2	Farmers Training				-
3	Training for extension functionaries	01	26-04-2020	15	

Plant Protection

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	02	21-09-2020 and 25-09-2020,	60	-
2	Farmers Training	02	05-07-2020 and 12-07-2020	40	-

3	Training for extension functionaries	01	04-08-2020	15	

Horticulture

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	01	21-09-2020 and 25-09-2020,	60	-
2	Farmers Training	02	12-07-2020	40	-
3	Training for extension functionaries	01	04-08-2020	15	

Home Science

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	-		-	-
2	Farmers Training	03	26-06-2020, 10-10-2020 & 25-11-2020	60	-
3	Training for extension functionaries	01	21-01-2020	15	-

Live Stock Production

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	03	04.01.20, 16.01.20 13.02.20	68	-
2	Farmers Training	01	15-01-2020	20	-
3	Training for extension functionaries	01	20.02.20	15	-

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Groundnut																		
Sesamum																		
Mustard Rabi 2020-21	Vaietal	Var.- RH-749 Pant Sweta	RH-749 Pant Sweta	36	20	31.15	25.0	30.0	22.5	33.3	45000	165000	120000	3.6:1	42000	123750	81750	2.94:1
Toria																		
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

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Black gram Zaid -2021 (CFLD)	Varietal	**PU-31**	**PU-31**	**21**	10	11.7	8.1	9.78	8.10	20.7	44240	63570	19330	1.4:1	42300	52650	10350	1.2:1
Black gram Kharif-21 (CFLD)	Varietal	Indira	Indira	25	10	14.9	10.3	12.6	10.2	22.9	43450	80640	37190	1.85:1	41600	65600	24000	1.57:1
Green Gram Zaid -2021 (CFLD)	Varietal	Virat	Virat	22	10	12.9	8.1	10.8	8.3	30	42500	64800	22300	1.5:1	41000	49800	8800	1.2:1
Lentil Rabi 21 (CFLD)	Varietal	PL-8	PL-8	21	10	15.1	13.3	13.2	11.5	14.8	51000	60766	9766	1.19:1	47500	42200	5400	1.11:1

* 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)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check											
					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 Kharif-2021	INM	Balanced use of fertilizers in Rice 120:60:60:20:25 (N:P:K:S:Zn)	10	4.0	51.8	47.8	49.8	44.4	12.2	215	187	97600	143900	46300	1.47	94800	129300	34500	1.34
	IPM	Control of stem borer	10	4.0	42.5	40.5	41.5	36.5	13.7	04	12	97500	160500	63000	1.6:1	94600	136000	41400	1.4:1
Wheat	IPM	Seed treatment through vitavax 75 WP@ 3g/kg seeds+ Spray of Tabuconazole 0.1%	10	4.0	62.2	54.2	58.2	42.6	14.9	05 leafs/ plant	09 leafs afected/ plant	29500	90125	60625	3.0:1	24590	49339	24759	2.02:1
Wheat Rabi2019-20	INM	Balanced use of fertilizers in Wheat 150:60:40:30:25 (N:P:K:S:Zn)	05	2.0	53.4	48.1	50.2	45.3	10.8	189	167	55200	118500	63300	2.14	53800	96750	42950	1.79
Wheat																			
Wheat Timely sown																			
Wheat Late Sown																			
Mandua																			

Barley																			
Maize																			
Amaranth																			
Millets																			
Jowar																			
Bajra																			
Barnyard millet																			
Finger millet																			
Vegetables																			
Red Cabbage																			
Cauliflower	VE		05	01	252.5	226.9	239.50	191	25.3	Compact head	Loose head	**66500**	**263450**	196950	3.9:1	16100	200550	136450	3.1:1
Bottle guard																			
Spongegourd																			
Petha																			
Tomato																			
Frenchbean																			
Capsicum																			
Chilli																			
Brinjal																			

Vegetable																			
Softgourd																			
Okra																			
Colocasia (Arvi)																			
Broccoli																			
Cucumber																			
Onion																			
Coriender																			
Lettuce																			
Cabbage																			
Elephant fruit																			
Flower crops																			
Chrysanthemum																			
Bela																			
Tuberose																			
Merigold	VE	Pusa Naragi	5	1.0	228.5	209	218.75	178	22.89	Compact and attractive colour	Ugly colour	58500	26250	204000	4.4:1	254700	213600	158900	3.9:1
Fruit crops																			
Mango																			
Strawberry																			
Guava																			

Banana	**IPNM**	**Murate of Potash**	05	**1**	**Result Awated**													
Papaya																		
Muskmelon																		
Watermelon																		
Spices & condiments																		
Ginger																		
Garlic																		
Turmeric																		
Commercial Crops																		
Medicinal & aromatic plants																		
Mentholment																		
Kalmegh																		
Ashwagandha																		
Fodder Crops																		
Sorghum (F)																		
Cowpea (F)																		
Maize (F)																		
Lucern																		
Berseem															-	-	-	-	-	
Oat (F)															-	-	--	-	-	-

* 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 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	Feed management	Balance finisher feed	03	2000	**Result awaited**												
Sheep & Goat																	
Fodder																	

* 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

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demons Ration	Check		Demons ration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps																	
Composite fish culture																	
Feed Management																	

FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit			
				Demo	Check		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																
Maize Sheller																
Value Addition																

FLD on Women Empowerment

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

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units Area (ha)	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Nutrition Garden (Rabi-2020-21)	House hold food security by kitchen gardening and nutrition gardening.	Improved variety seed and vermicompost.	20	20	70	25	180	Improved quality of vegetables	Poor quality	500	1800	1300	1.3:1	250	500	250	1.2
Value Addition (Kharif-2021)	House hold food security by kitchen gardening and nutrition gardening.	Achar Making .	5	5						100	600	500	1.2:1				

FLD on Demonstration details on crop hybrids

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average						
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 courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	2	36		36	4	0	4	40	0	40
Resource Conservation Technologies										
Cropping Systems	2	38		38	2		2	40	0	40
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)	1	19	0	19	1	0	1	20	0	20
Total	5	93	0	93	7	0	7	100	0	100
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables	1	16		16	4		4	20	0	20
Nursery raising	1	15		15	5		5	20	0	20
Exotic vegetables	2	36		36	4		4	40	0	40
Export potential vegetables										
Grading and standardization	1	16		16	4		4	20	0	20
Protective cultivation										
Others (pl specify)	2	36		36	4		4	40	0	40
Total (a)	**7**	**119**	**0**	**119**	**21**	**0**	**21**	**140**	**0**	**140**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	16		16	4		4	20	0	20
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)	1	16		16	4		4	20	0	20
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (Cultivation technique of Marigold)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										

Production and Management technology	1	15		15	5		5	20	0	20
Processing and value addition										
Others (pl specify)										
Total (f)	1	15		15	5		5	20	0	20
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (Introduce of Medicinal and Aromatic Plants)										
Total (g)										
GT (a-g)	**9**	**150**	**0**	**150**	**30**	**0**	**30**	**180**	**0**	**180**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management	1	3		3	17		17	20	0	20
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	3		3	17		17	20	0	20
Disease Management	1	4		4	16		16	20	0	20
Feed & fodder technology										
Production of quality animal products				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**3**	**10**	**0**	**10**	**50**	**0**	**50**	**60**	**0**	**60**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2		32	32		8	8		40	40
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total										
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										

Integrated Pest Management	4	72	0	72	8	0	8	80	0	80
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**4**	**72**	**0**	**72**	**8**	**0**	**8**	**80**	**0**	**80**
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	**23**	**365**	**32**	**397**	**55**	**8**	**63**	**420**	**40**	**460**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I) Crop Production										
Weed Management	1	18	0	18	2	0	2	20	0	20
Resource Conservation Technologies				0			0	0	0	0

Cropping Systems	2	38		38	2		2	40	0	40
Crop Diversification				0			0	0	0	0
Integrated Farming	2	17		17	3		3	20	0	20
Micro Irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management	2	38		38	2		2	40	0	40
Soil & water conservatioin	1	19		19	1		1	20	0	20
Integrated nutrient management	1	19		19	1		1	20	0	20
Production of organic inputs				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	9	149	0	149	11	0	11	160	0	160
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops				0			0	0	0	0
Off-season vegetables	1	18		18	2		2	20	0	20
Nursery raising	1	17		17	3		3	20	0	20
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others (INM in Cole Crops)				0	0		0	0	0	0
Total (a)	2	35	0	35	5	0	5	40	0	40
b) Fruits										
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards	1	17		17	3		3	20	0	20
Cultivation of Fruit	1	16	1	17	3		3	19	1	20
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards	1	16		16	4		4	20	0	20
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (b)	3	49	1	50	10	0	10	59	1	60
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management	0			0			0	0	0	0
Production and management technology	1	17		17	3		3	20	0	20
Post harvest technology and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (g)	1	17	0	17	3	0	3	20	0	20

GT (a-g)	**6**	**101**	**1**	**102**	**18**	**0**	**18**	**119**	**1**	**120**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal products	1	15		15	5		5	20	0	20
Others (pl specify)				0			0	0	0	0
Total	**1**	**15**	**0**	**15**	**5**	**0**	**5**	**20**	**0**	**20**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Processing and cooking				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques	1		18	18		2	2	0	20	20
Value addition				0			0	0	0	0
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care	1		18	18		2	2	0	20	20
Others (pl specify)				0			0	0	0	0
Total	**2**	**0**	**36**	**36**	**0**	**4**	**4**	**0**	**40**	**40**
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	2	36		36	4		4	40	0	40
Integrated Disease Management	1	17		17	3		3	20	0	20
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**3**	**53**	**0**	**53**	**7**	**0**	**7**	**60**	**0**	**60**
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	**21**	**318**	**37**	**355**	**41**	**4**	**45**	**359**	**41**	**400**

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	3	54	0	54	6	0	6	60	0	60
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	4	76	0	76	4	0	4	80	0	80
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	2	17	0	17	3	0	3	20	0	20
Micro Irrigation/irrigation	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	2	38	0	38	2	0	2	40	0	40
Soil & water conservatioin	1	19	0	19	1	0	1	20	0	20
Integrated nutrient management	1	19	0	19	1	0	1	20	0	20
Production of organic inputs	0	0	0	0	0	0	0	0	0	0

Others (pl specify)	1	19	0	19	1	0	1	20	0	20
Total	14	242	0	242	18	0	18	260	0	260
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	0	0	0	0	0	0	0	0	0	0
6Off-season vegetables	4	72	0	72	8	0	8	80	0	80
Nursery raising	3	53	0	53	7	0	7	60	0	60
Exotic vegetables	1	19	0	19	1	0	1	20	0	20
Export potential vegetables	2	34	0	34	6	0	6	40	0	40
Grading and standardization	1	16	0	16	4	0	4	20	0	20
Protective cultivation	2	36	0	36	4	0	4	40	0	40
Others (INM in Cole Crops)	2	40	0	40	0	0	0	40	0	40
Total (a)	15	270	0	270	30	0	30	300	0	300
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	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	1	12	0	12	8	0	8	20	0	20
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
Others (Cultivation technique of marigold)	0	0	0	0	0	0	0	0	0	0
Total (c)	**1**	**12**	**0**	**12**	**8**	**0**	**8**	**20**	**0**	**20**
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management	1	17	0	17	3	0	3	20	0	20
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Others (Introduction of Medicinal and Aromatic Plants)	0	0	0	0	0	0	0	0	0	0
Total (g)	**1**	**17**	**0**	**17**	**3**	**0**	**3**	**20**	**0**	**20**
GT (a-g)	**17**	**299**	**0**	**299**	**41**	**0**	**41**	**340**	**0**	**340**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										

IV Livestock Production and Management										
Dairy Management	2	5	0	5	35	0	35	40	0	40
Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	4	10	0	10	70	0	70	80	0	80
Disease Management	0	0	0	0	0	0	0	0	0	0
Feed & fodder technology	1	3	0	3	17	0	17	20	0	20
Production of quality animal products	3	10	0	10	50	0	50	60	0	60
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**10**	**28**	**0**	**28**	**172**	**0**	**172**	**200**	**0**	**200**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	20	20	0	0	0	0	20	20
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	1	0	17	17	0	3	3	0	20	20
Minimization of nutrient loss in processing	1	0	18	18	0	2	2	0	20	20
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques	1	0	18	18	0	2	2	0	20	20
Value addition	3	0	52	52	0	8	8	0	60	60
Women empowerment	1	0	18	18	0	2	2	0	20	20
Location specific drudgery reduction technologies	1	0	13	13	0	7	7	0	20	20
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**9**	**0**	**156**	**156**	**0**	**24**	**24**	**0**	**180**	**180**
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	4	72	0	72	8	0	8	80	0	80
Integrated Disease Management	3	53	0	53	7	0	7	60	0	60
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**7**	**125**	**0**	**125**	**15**	**0**	**15**	**140**	**0**	**140**
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	**44**	**683**	**69**	**752**	**96**	**12**	**108**	**779**	**81**	**860**

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	1	12		12	3		3	15	0	15
Training and pruning of orchards	0			0			0	0	0	0
Protected cultivation of vegetable crops	1	11		11	4		4	15	0	15
Commercial fruit production				0			0	0	0	0
Integrated farming	0			0			0	0	0	0
Seed production	0			0			0	0	0	0
Production of organic inputs	0			0			0	0	0	0
Planting material production	1	13		13	2		2	15	0	15
Vermi-culture	1	14		14	1		1	15	0	15
Mushroom Production	1	12		12	3		3	15	0	15
Bee-keeping	1	12		12	3		3	15	0	15
Sericulture	0			0			0	0	0	0
Repair and maintenance of farm machinery and implements	0			0			0	0	0	0
Value addition	1		10	10		0	0	0	10	10
Small scale processing	0			0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching	1		10	10		2	2	0	12	12
Rural Crafts	0			0			0	0	0	0
Production of quality animal products	0			0			0	0	0	0
Dairying				0			0	0	0	0

Sheep and goat rearing				0			0	0	0	0
Quail farming	0			0			0	0	0	0
Piggery	0			0			0	0	0	0
Rabbit farming	0			0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries	0			0			0	0	0	0
Composite fish culture	0			0			0	0	0	0
Freshwater prawn culture	0			0			0	0	0	0
Shrimp farming	0			0			0	0	0	0
Pearl culture	0			0			0	0	0	0
Cold water fisheries	0			0			0	0	0	0
Fish harvest and processing technology	0			0			0	0	0	0
Fry and fingerling rearing	0			0			0	0	0	0
Any other (pl.specify) Entrepreneurship development	0			0			0	0	0	0
TOTAL	**8**	**74**	**20**	**94**	**16**	**2**	**18**	**90**	**22**	**112**

Training for Rural Youths including sponsored training programmes (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	0			0			0	0	0	0
Training and pruning of orchards	0			0			0	0	0	0
Protected cultivation of vegetable crops	0			0			0	0	0	0
Commercial fruit production	0			0			0	0	0	0
Integrated farming				0			0	0	0	0
Seed production	0			0			0	0	0	0
Production of organic inputs	0			0			0	0	0	0
Planting material production	0			0			0	0	0	0
Vermi-culture	0			0			0	0	0	0
Mushroom Production	0			0			0	0	0	0
Bee-keeping	0			0			0	0	0	0
Sericulture	0			0			0	0	0	0
Repair and maintenance of farm machinery and implements	0			0			0	0	0	0
Value addition	0			0			0	0	0	0
Small scale processing	0			0			0	0	0	0
Post Harvest Technology	1		10	10		5	5	0	15	15
Tailoring and Stitching	0			0			0	0	0	0
Rural Crafts	0			0			0	0	0	0
Production of quality animal products	0			0			0	0	0	0
Dairying	0			0			0	0	0	0
Sheep and goat rearing	0			0			0	0	0	0
Quail farming	0			0			0	0	0	0
Piggery	0			0			0	0	0	0
Rabbit farming	0			0			0	0	0	0
Poultry production	0			0			0	0	0	0
Ornamental fisheries	0			0			0	0	0	0
Composite fish culture	0			0			0	0	0	0
Freshwater prawn culture	0			0			0	0	0	0
Shrimp farming	0			0			0	0	0	0
Pearl culture	0			0			0	0	0	0
Cold water fisheries	0			0			0	0	0	0
Fish harvest and processing technology	0			0			0	0	0	0
Fry and fingerling rearing	0			0			0	0	0	0
Any other (pl.specify)	0			0			0	0	0	0
TOTAL	**1**	**0**	**10**	**10**	**0**	**5**	**5**	**0**	**15**	**15**

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	1	12	0	12	3	0	3	15	0	15
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	1	11	0	11	4	0	4	15	0	15
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Planting material production	1	13	0	13	2	0	2	15	0	15
Vermi-culture	1	14	0	14	1	0	1	15	0	15
Mushroom Production	1	12	0	12	3	0	3	15	0	15
Bee-keeping	1	12	0	12	3	0	3	15	0	15
Sericulture	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Value addition	1	0	10	10	0	0	0	0	10	10
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	1	0	10	10	0	5	5	0	15	15
Tailoring and Stitching	1	0	10	10	0	2	2	0	12	12
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Any other (pl.specify)	0	0	0	0	0	0	0	0	0	0
TOTAL	**9**	**74**	**30**	**104**	**16**	**7**	**23**	**90**	**37**	**127**

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	0			0			0	0	0	0
Integrated Pest Management	3	45		45			0	45	0	45
Integrated Nutrient management	1	15		15	0		0	15	0	15
Rejuvenation of old orchards				0	0		0	0	0	0
Protected cultivation technology				0	0		0	0	0	0
Production and use of organic inputs	0			0			0	0	0	0
Care and maintenance of farm machinery and implements	0			0			0	0	0	0
Gender mainstreaming through SHGs	0			0			0	0	0	0
Formation and Management of SHGs	0			0			0	0	0	0

Women and Child care	1		15	15			0	0	15	15
Low cost and nutrient efficient diet designing			0	0			0	0	0	0
Group Dynamics and farmers organization	0			0			0	0	0	0
Information networking among farmers	0			0			0	0	0	0
Capacity building for ICT application	0			0			0	0	0	0
Management in farm animals	0			0			0	0	0	0
Livestock feed and fodder production	1	10		10	5		5	15	0	15
Household food security	0			0			0	0	0	0
Any other (pl.specify)	0			0			0	0	0	0
TOTAL	**6**	**70**	**15**	**85**	**5**	**0**	**5**	**75**	**15**	**90**

Training programmes for Extension Personnel including sponsored training programmes (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	1	14	0	14	1	0	1	15	0	15
Integrated Pest Management	1	14		14	1		1	15	0	15
Integrated Nutrient management	1	15		15			0	15	0	15
Rejuvenation of old orchards	1	15		15			0	15	0	15
Protected cultivation technology	1	14	1	15			0	14	1	15
Production and use of organic inputs	0			0			0	0	0	0
Care and maintenance of farm machinery and implements	0			0			0	0	0	0
Gender mainstreaming through SHGs	0			0			0	0	0	0
Formation and Management of SHGs	0			0			0	0	0	0
Women and Child care	1		15	15			0	0	15	15
Low cost and nutrient efficient diet designing	0			0			0	0	0	0
Group Dynamics and farmers organization	0			0			0	0	0	0
Information networking among farmers	0			0			0	0	0	0
Capacity building for ICT application	0			0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security	1		15	15			0	0	15	15
Any other (pl.specify)	0			0			0	0	0	0
TOTAL	**7**	**72**	**31**	**103**	**2**	**0**	**2**	**74**	**31**	**105**

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	1	14	0	14	1	0	1	15	0	15
Integrated Pest Management	4	59	0	59	1	0	1	60	0	60
Integrated Nutrient management	2	30	0	30	0	0	0	30	0	30
Rejuvenation of old orchards	1	15	0	15	0	0	0	15	0	15
Protected cultivation technology	1	14	1	15	0	0	0	14	1	15
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Women and Child care	2	0	30	30	0	0	0	0	30	30
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	1	10	0	10	5	0	5	15	0	15
Household food security	1	0	15	15	0	0	0	0	15	15
Any other (pl.specify)	0	0	0	0	0	0	0	0	0	0
TOTAL	**13**	**142**	**46**	**188**	**7**	**0**	**7**	**149**	**46**	**195**

Table. Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	3	120	10	130	20	0	20	140	10	150
Commercial production of vegetables				0			0	0	0	0
Production and value addition										
Fruit Plants				0			0	0	0	0
Ornamental plants				0			0	0	0	0
Spices crops				0			0	0	0	0
Soil health and fertility management				0			0	0	0	0
Production of Inputs at site				0			0	0	0	0
Methods of protective cultivation				0			0	0	0	0
Others (pl. specify)				0			0	0	0	0
Total	3	120	10	130	20	0	20	140	10	150
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	3	120	10	130	20	0	20	140	10	150

Name of sponsoring agencies involved

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition										
Others (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	2610	2610		2610
Diagnostic visits	179	685	6	691
Field Day	2	105	4	109
Group discussions	5	129	9	138
Kisan Ghosthi	79	2660	175	2835
Film Show	1			0
Self -help groups	3	32	2	34
Kisan Mela `	1	355	30	385
Exhibition	1	355	30	385
Scientists' visit to farmers field	370	370	0	370
Plant/**animal health camps**	2	210	6	216
Farm Science Club	4	112	7	119
Ex-trainees Sammelan	2	90	15	105
Farmers' seminar/workshop	11	798	67	865
Method Demonstrations	16	35	4	39
Celebration of important days	15	450	15	465
Special day celebration	19	225	13	238
Exposure visits	2	100	6	106
Other	3	76	7	83
Total	**3325**	**9397**	**396**	**9793**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	02
Extension Literature	2000
News paper coverage	17
Popular articles	05
Radio Talks	03
TV Talks	02
Animal health camps (Number of animals treated)	
Others (pl. specify)	02
Total	**2031**

Mobile Advisory Services

No. of KVKs	No. of SMSs sent	No. of farmers benefited

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

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	Wheat	HD-3086		183.20	421360.00	NSC
Oilseeds						
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						-

Others						
Green Manuring						
Total				**183.20**	**421360.00**	

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Number	Value (Rs.)	Number of farmers
Commercial					
Vegetable seedlings	Bringal				
	Chilly	Parihot	200	100	9
	Tomato				
	Cabbage				
	Capsicum				
	Cauliflower				
	Onion	Nasik Rad	12480	1240	23
	Red cabbage				
	Papaya				
Ornamental plants	*Ficus benajamina*				
	Marigold				
	Poppy				
	Calendula				
	Hollyhock				
	Sweet Alyssum				
	Chrysanthemum				
Medicinal and Aromatic	Aloe vera				
Plantation	Popular				
Total			**12680**	**1340**	**32**

Production of Bio-Products

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

Table: Production of livestock materials

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

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	**378**	**341**	**28**	**18120.00**
Water	**06**	**06**	**02**	**180.00**
Plant				
Manure				
Others (Warmi Wash)				
Total	**385**	**347**	**30**	**18300.00**

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
KVK Ghaziabad	1(on 29.12.21)

IX. NEWSLETTER

Name of News letter	No. of Copies printed for distribution

X. PUBLICATIONS

Category	Number
Research Paper	04

Technical bulletins	
Technical reports	03
Others (pl. specify)	04

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.)**
-	-	-	-	-

Success Story.

Name of the KVK: Krishi Vigyan Kendra, Muradnagar, Ghaziabad ,U.P

Name and Contact Details of the Farmer: Vijay Kasana, 9350627350, 9222232,
Email: vijaykasana28@gmail.com
Name of the Unit: LUCKY BEE FARM, 1931, Krishna Vihar, Teela Sahbajpur, Loni Ghaziabad, (U.P.) 201102

SITUATION ANALYSIS 2014-15 to 2019-20 :-

Between 2014 and 19, the economic situation of beekeepers not only improved through beekeeping but also through it the agricultural sector has seen a lot of positive impact. During this period, beekeepers have produced not only honey but also other products like pollen, Propolis and beeswax on a large scale. This has not only increased the domestic market of honey but also increased foreign exchange through exports. Have been received. At present, Indian beekeepers are making maximum profit by working with scientific methods. Beekeeping not only benefits a particular person, but is also a friendly insect for farming, but the pollination process has seen a lot of benefit in the crops of the farmer. Pulses and oilseeds crops help to increase the yield by more than about 30 percent. Along with farming, beekeeping is absolutely necessary to double the income of farmers. Only then will the farmer be prosperous and healthy.

Plan, Implement, Support and Linkage with KVK :-

We started beekeeping in the year 2006, inspired by the knowledge of beekeeping given by agricultural scientists in DD National's Krishi Darshan program. Initially we started the work from 27 Bee Colony which we increased to 43 boxes in one year, after which we got technical information by contacting our Krishi Vigyan Kendra, Ghaziabad and made it a full time employment. The Krishi Vigyan Kendra has a big role to play for the success of anyone associated with the agricultural sector, in the year 2007, we increased our number of colonies to 200 by taking a loan of five lakh rupees in the Khadi Village Industries Commission's Rural Generation Program Scheme, making the first Around 9300 kg of honey was produced in the year itself, which earned us a net profit of around ₹ 340000, where we produced a huge amount of honey in the crop season, while in the off season we put a box for pollinating apple orchards in Himachal to meet the government In the year 2013, we established a bee box and equipment manufacturing unit, so that beekeepers can easily get boxes and equipment, given the lack of bee hives and equipment to the right standard of beekeeping. Can. Exposure visits in various states for the last several years, and participated as experts in training programs and

beekeeping seminars, with special support from Krishi Vigyan Kendra, Ghaziabad, through Krishi Vigyan Kendra where we got technical information At the same time we got an opportunity to showcase our products and equipment through the agricultural fair held from time to time. For which we especially thank the Center for Agricultural Sciences. In the year 2017, the honey mission program was launched by the Prime Minister to promote madhumakhi farming by the Government of India and to double the income of farmers, in which through the tender process by our firm Lucky Bee Farm, through the Khadi Village Industries Commission. Bee colonies and other equipment were supplied in many states including the state. In the last three years, we have distributed about ten thousand bee colonies and equipment in various states, so that along with us we have also provided employment to an average of twenty to twenty five people, at present our organization "Association of Progressive Beekeepers and Agro Farmers "Various training programs and awareness campaigns are being run for progressive farmers, for the past many years we have been working as a professional training associate with Krishi Vigyan Kendra and State Beekeeping Extension Center through which employment oriented jobs in rural areas Training and giving benefits of the government-run scheme are included. We have also made a big effort on setting up village development centers in Uttarakhand and Haryana state and a plan for cow based rural development. At present, our organization has five thousand bee colonies for which twenty people get employment for the whole year.

OUTPUT:-

Since 2007, Lucky Bee Farm has been making steady progress in the field of beekeeping. In which we not only increased the number of bee colonies but from this we also collected many valuable bee products which mainly include honey, pollen and wax. These bee products have not only been used for human health but are also in great demand in the cosmetics industry. With which beekeepers can earn large amounts of profit.

While Lucky Bee Farm made a profit by producing a large amount of honey from bee colonies, by creating modern bee boxes, it also established a source of income by supplying bee boxes to government institutions and general beekeeping in various states of the country. Today we are also making a profit by manufacturing 5 000 to 7000 boxes every year and selling them in different states of the country.

OUTCOME:-

We are working towards making the youth aware and be self-reliant towards beekeeping in rural areas of India. In the coming time, work is being done to make Self Help Groups and Association of Beekeepers at different places in the state to make them self-sufficient.

Our organization has set a target of establishing a mini integrated beekeeping development center in district Ghaziabad through which a cluster of bee keepers has been targeted to employ 500 people in the district itself. For which work is going on at a rapid pace. Efforts are being made from time to time through Krishi Vigyan Kendra Ghaziabad to establish utility between beekeeping and agriculture between beekeepers and general farmers.

We are working towards making the youth aware and be self-reliant towards beekeeping in rural areas of India. In the coming time, work is being done to make Self Help Groups and Association of Beekeepers at different places in the state to make them self-sufficient.

More difficult than making any product, it has to be sold to the market at a good rate, in this order, bee spinach produces a lot of honey, but it is unable to market it at a good rate.

For the first time in India work has been started on the Mobile honey processing unit project, So that in the area where a large number of bee colonies are planted, the mobile processing unit in the same area can be taken and its honey can be processed and given to beekeepers. By which beekeeping can connect with the direct consumer and send their product at a higher price. In the coming time, the mobile honey processing unit will establish a revolutionary step in the field of beekeeping in India.

The Krishi Vigyan Kendra at Ghaziabad aims to make farmers and small bee keepers aware of new technology and provide them with high level training.

A number of multi-faceted programs are planned to promote organic farming throughout the state and to bring together the utility of bee colonies for it. It is also planned to sensitize the silent eyelids of the state towards other bee products and provide new and technical equipment to produce them.

IMPACT

a) Technological:

From time to time, through technical information from the Krishi Vigyan Kendra, we provided technical guidance to the ordinary beekeeper to increase his work efficiency. Given the lack of new and modern equipment in traditional beekeeping in India, we made beekeepers aware of this by building high-end modern equipment such as stainless-steel-made honey extractors and other tool kits. As a result, the best quality honey was obtained in India, which is in great demand in the international market. Since the beginning of beekeeping in our country, ordinary beekeeping has been extracting honey only from the brood chamber, which not only affected the quality of honey but also had a negative impact on the bee colony. Made the parents aware of extracting honey with super chambers and got them boxed on government grants.

b) Economic:

Lucky Bee Farm is also increasing the production of quality honey continuously. Since the year 2013, in all the states of the country, a fixed source of income has also been generated from the sale of bee boxes and its equipment through government and non-governmental mediums. The table of honey produced by us in the last 4 years is given below. Due to the increasing level of beekeeping in India, Today the demand for Indian honey is everywhere in the world.

Year	Bee Colonies	Honey Produced	Total Income	Production Cost & Expenditure	Net Profit
2014-15	800	21000 Kg.	21,00,000	12,60,000	8,40,000
2015-16	1200	35000 Kg.	35,00,000	21,00,000	14,00,000
2016-17	1500	48000 Kg.	52,80,000	33,60,000	19,20,000
2017-18	2100	55000 Kg.	55,00,000	33,00,000	22,00,000

Lucky bee farm is earning 30-35 Lakhs per year for all bee keeping activities. For example honey production, Bee keeping by products like pollen, wax etc. And supply of bee colonies and bee hives to various government institutions.

SOCIAL :-

At present our organization "Association of Progressive Beekeepers and Agro Farmers" Various training programs and awareness campaigns are being run for progressive farmers, for the past many years we have been working as a professional training associate with Krishi Vigyan Kendra and State Beekeeping Extension Center through which employment oriented jobs in rural areas Training and giving benefits of the government-run scheme are included. We have also made a big effort on setting up village development centers in Uttarakhand and Haryana state and a plan for cow based rural development. At present, our organization has five thousand bee colonies for which thirty five people get employment for the whole year.

Beekeeping is not only beneficial for honey production but it is also a golden opportunity to provide employment in agriculture. While beekeeping has increased a certain income to beekeepers and improved their standard of living, on the other hand it has great utility for the agricultural sector. Beekeeping and agriculture are complementary to each other, indiscriminate pesticide growth in crops and the weathering effect on crops have been a major bad influence on the process of mercury. Beekeeping can be a very simple and useful way to improve it is According to the data given by agricultural scientists, beekeeping can increase the yield up to 30% in crops. To increase this, we have organized many programs and awareness programs at block level in association with Krishi Vigyan Kendra.

Success Story,

Processing and value addition in fruits and vegetables (cottage industry)

Surekha Nagi village indergarh Block- Rajapur ,
Distt. –Ghaziabad (U.P.) ph.7503332230

Surekha Nagi husband was Physically challenged, later on he suffered kidney transplantation, suddenly family came in the financial crisis due to hospitalization.
She was in dilemma whether to opt for a job or to start her own business. she decided to do some worthwhile for the rural and urban people through acquired skills and knowledge. she opted for her own business (pickle Making).

Training –

Good days started when she participated in training on food processing and value addition in fruits and vegetables, organized by KVK, Ghaziabad.

Achievements-

After training, in beginning she started her business by making 5 kg of mango pickles.she went door to door selling her product. people liked her pickles that give her moral boost, so she started making different types of Pickles like. Amala pickle, lemon pickle, red chilli, green chilli pickle etc..
She made a brand name Manya food products letter on sea registered her brand name Manya in f s s a i She products are being sold in and around local market and Delhi NCR.

Impact-

To meet increasing demand and supply of pickles she also formulated self help groups of 20-25 farm women for technical backup and other assistance. She

earned net profit of RS 20000/month.long with different types of pickles she also prepare chips, papad dal bari, jawe etc.She also acting as a master trainer and giving training to the rural women in the near by villages.

Award-

She was awarded with mahila kisan award 2019 by the KVK.Ghaziabad.

Success Story

Integrated Farming System

Due to increasing cost of cultivation & shrinking the cultivable land agriculture is not a profitable business. Most of the small & marginal farmers are not able to fulfill their fundamental needs due to having limited land. Among them Sh. Devendra Singh S/0 Shri Surat Singh belonging to Milak Rawli village of district Ghaziabad is one who was also suffering with the same above said problem & He was so disappointed that he wanted to give up the farming because of having 2.0 acre land (not sufficient for his livelyhood). Before 5 year ago he came in contact with Krishi Vigyan Kendra, Muradnagar, Ghaziabad in a training programme & suggested to go for integrated farming system. He connivance & started to make vermicompost & to do apiculture. He started his work with 10 unit (10x03 fit) of vermicompost & 5 boxes of apiculture. At first year he produced 100 Qtl. of earned Rs. 52600/- after 05 year (2018-19) in he earned Rs. 813000/- through vermicompost Rs. 540000/-, honey Rs. 198000/- and Worms Rs. 75000/-.

Now he is very happy and confident and thinking about to launch one another product vermiwash. Though he is making it but not at commercial scale.

S.No.	Year	Product	Qty. (Qtl./kg)	Rs.			
				Rate	Cost	Profit	Net Profit
1	2013-14	Vermicompost	120 Qtl.	350/ Qtl.	3000	42000	39000
		Honey	100 kg	150 /kg	1400	15000	13600
Total					**4400**	**57000**	**52600**
2	2015-16	Vermicompost	450 Qtl.	380/ Qtl.	17000	171000	154000
		Honey	270 kg	150 /kg	5000	40500	35500
Total					**22000**	**211500**	**189500**
3	2016-17	Vermicompost	730 Qtl.	385/ Qtl.	35000	281050	246050
		Honey	685 kg	160 /kg	17500	109600	92100
Total					**52500**	**390650**	**338150**
4	2017-18	Vermicompost	1050 Qtl.	400/ Qtl.	55000	420000	365000
		Honey	1030 kg	180 /kg	25000	185400	160400
		Worms	400 kg	200 /kg	-	80000	80000
Total					**80000**	**685400**	**605400**
5	2018-19	Vermicompost	1400 Qtl.	450/ Qtl.	90000	630000	540000
		Honey	1200 kg	190 /kg	30000	228000	198000
		Worms	250 kg	200 /kg	-	50000	50000
Total					**120000**	**908000**	**788000**
Grand Total					**275900**	**2210550**	**1934650**

Information of NARI for DARE 2021

Summary of the activities

KVK	Name of Nutri Smart Village	Activity	Achievement	
			Number of activity	No. of farmers/ beneficiaries
Ghaziabad	**Muradpur Pursi**	OFTs – Nutritional Garden (activity in no. of Unit)	**5**	**5**
		OFTs - Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)	**5**	**5**
		FLDs – Nutritional Garden (activity in no. of Unit)	**10**	**10**
		FLDs – Bio-fortified Crops (activity in no. of Unit)		
		FLDs – Value addition (activity in no. of Unit/Enterprise)	**5**	**5**
		FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)	**5**	**5**
		Trainings	**10**	**195**
		Extension Activities	**8**	**90**

II. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

Crops/cultivars	Area (ha)	Number of beneficiaries
Paddy – NDR-99	25.0	42
Sorghum- PC-6	3.6	14
Total	**28.6**	**56**

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	-	-
Pulses		
Cereals Paddy	25.0	42
Vegetable crops		
Tuber crops		
Fodder Sorghum	3.6	14
Total	**28.6**	**56**

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
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 technologies introduced	Area (ha)	Number of farmers
-	-	-
Total		

Awareness campaign

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

XIII. DETAILS ON HRD ACTIVITIES

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 nvolved
-	-	-	-	-
Total				

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

Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
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, its refinement if any and its impact in district agriculture with respect to that crop or enterprise***
c) ***Effect of production and supply of seeds and planting material / animal breed / or bio-product and its impact on district agriculture with respect to that crop/ enterprise/ bio-product***

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

Name of the KVK

TITLE

Introduction

KVK intervention

Output

Outcome

Impact

XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE

A. Details on ATICs

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

B. Details on Farmer's visit

S. No	Purpose of visit	Number of farmer's visited
01	Technology Information	568
02	Technology Products	68
03	Others if any pl. specify	-

C. Facilities in the ATIC which are in operation

S. No	Particulars	Availability (Please √ mark)	Number of ATICs
01	Reception counter		
02	Exhibition / technology museum		
03	Touch screen Kiosk		
04	Cafeteria	yes	
05	Sales counter		
06	Farmer's feedback register	yes	
07	Others if any (please specify)		

D. Technology information provided

D.1. Details on technology information

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

D.2 . Publications (Print & Electronic media)

S. No	Particulars	Number sold	Revenue generated in Rs.	Number of farmers benefited
01	Books			
02	Technical bulletins			
03	Technology Inventory			
04	CDs			
05	DVDs			
06	Video films			
07	Audio CDs			
08	Others if any (please specify)			

E. Technology Products provided

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

F. Technology services provided

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

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION

States covered:

Number of Directorates of Extension:

A. Details on Directors of Extension

S. No	Name of the SAU	Name of the Director of Extension	Number of KVKs for which technological backstopping is provided					
			SAU/CAU	DU	ICAR	NGO	SDA	Others (pl. specify)

B. Workshops / meetings organized

. No.	Details of workshop/meeting conducted	No. of KVKs participated

1.	Zonal workshop	13+

C. Visits made by DE / Officials in the Directorate to KVKs

S. No.	Particulars	Number of visits
01	SAC meetings	01
02	Field days	-
03	Workshops / seminars	-
04	Technology week	-
05	Training programmes	-
06	Others pl. specify	02

D. Overseeing of KVKs activities

S. No.	Particulars	Number of fields visited	Major observations / remarks	Major suggestions given
01	On Farm Trials	56	To monitoring the KVK`s activities	
02	Front Line Demonstration	69	To study the performance of crop with respect to diseases, growth and yield parameters etc. To monitor the health of animal regarding the calf mortality, infertility problem and other physiological abnormalities among the animal cause by different diseases. To monitor the crop health, diagnosis of diseases in crop, problem of white grub. To study the soil health regarding salinity, alkalinity and fertility status of soil.	Having found out of disease the a proper solution was given to so many farmers to control the problem.Miniral mixture was advised to over come the problem of infertility. Green manuring and application of FYM etc.were suggested to maintain the soil health and they were also suggested to go for balanced use of fertilizer on the basis of soil testing.To control the white grub the use of *beubaria bassiyana*
03	Others pl. specify			

E. Publication on Technology inventory

S. No.	Particulars	Number
01	Directorates published the technological inventory	-
02	Directorates constantly updating the technological inventory	-

F. Technological Products provided to KVKs

S. No.	Major technologies provided	Number of KVKs
01	Seeds	
02	Planting materials	
03	Bio-products	
04	Livestock breed	
05	Livestock products	
06	Poultry breed	
07	Poultry products	
08	Others pl. specify	