

ANNUAL REPORT

(January - December 2020)

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & Farm women	60	915	360	1275
Rural youths	08	60	20	80
Extension functionaries	20	178	40	218
Sponsored Training	--	--	--	--
Vocational Training	--	--	--	--
Total	88	1153	420	1573

2. Frontline demonstrations

Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	75	30.00	--
Pulses	85	34.00	--
Cereals	343	72.00	--
Vegetables	--	--	--
Other crops (Sugarcane)	90	34.00	--
Hybrid crops	--	--	--
Total	593	170	--
Livestock & Fisheries	--	--	--
Other enterprises	--	--	--
Total	--	--	--
Grand Total	593	170	--

3. Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
Technology Assessed			
Crops	16	09	29
Livestock	--	--	--
Various enterprises	--	--	--
Total	16	09	29

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	362	40168
Other extension activities	125	--
Total	487	40168

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Market-ing	Aware-ness	Other enterprise	Total
Nagina (Bijnor)	Text only	70	-	-	-	10	-	80
	Voice only	40	-	-	-	05	-	45
	Voice & Text both	-	-	-	-	-	-	-
	Total messages	110	-	-	-	15	-	125
	Total farmer benefitted	350	-	-	-	60	-	410

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	303.00	--
Planting material (No.)	--	--
Bio-Products (kg)	--	--
Livestock Production (No.)	--	--
Fishery production (No.)	--	--

7. Soil, water & plant Analysis

Type of Samples	No. of Beneficiaries	Value Rs.
Soil	50	--
Water	--	--
Plant	--	--
Total	50	--

8. HRD and Publications

SN	Category	Number
1	Workshops	12
2	Conferences	02
3	Meetings	10
4	Trainings for KVK officials	03
5	Visits of KVK officials	--
6	Book published	02
7	Training Manual	04
8	Book chapters	12
9	Research papers	06
10	Lead papers/ Invites lecture	--
11	Seminar papers/Abstract	--
12	Extension folder	31
13	Proceedings	02
14	Award & recognition	01
15	Ongoing research projects	03

DETAIL REPORT OF APR (Jan. 2020 to Dec. 2020)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		Email
	Office	FAX	
Krishi Vigyan Kendra, Nagina (Bijnor) (U.P.) - 246762	01343-250489	01343-250489	bijnorkvk@gmail.com

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

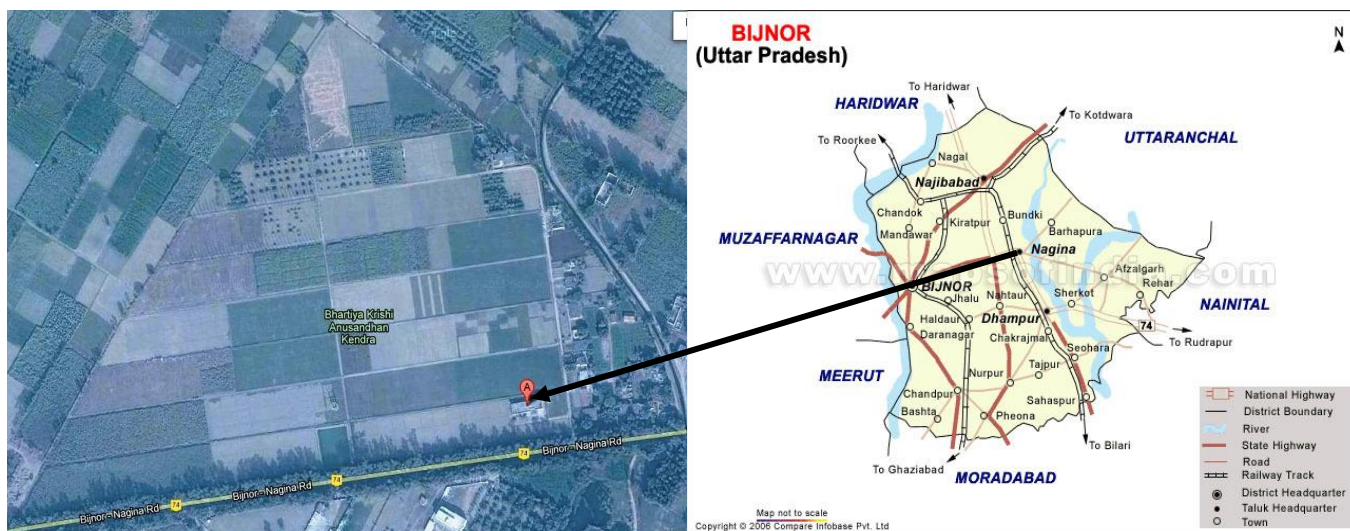
Address	Telephone		Email
	Office	FAX	
S.V.P. Univ. of Agri. & Tech., Meerut (U.P.) 250110	0121-2411511	0121- 2411511, 2411505	deesvpuat2014@gmail.com

1.3. Name of the Head with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. D.P. Singh	--	9720974900	dpsingh0107@gmail.com

1.4. Year of sanction : FN5 (108)/90 KVK date 22.04.92
FNo. 15(22)/92 Agr. Ext. -1/do Jan. 93

Map of KVK & district – Bijnor



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

S N	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present Basic (Rs.)	Date of Joining	Permanent/ Temporary	Category (SC/ST/OBC/ Others)	Mobile	Age	Email-Id
1	Sr. Scientist & Haed	Dr. D.P. Singh	Professor & Head	Horticulture	37400-67000	67,490	11.08.08	Permanent	OBC	9720974900	53	dpsingh0107@gmail.com
2	Subject Matter Specialist	Dr. Shakuntala Gupta	SMS/Asstt. Prof.	Home Science	15600-39100	37,680	09.12.03	Permanent	Others	9412356736	55	shakuntalaguptakvk@gmail.com
3	Subject Matter Specialist	Dr. K.K. Singh	SMS/Asstt. Prof.	Plant Breeding	15600-39100	30,860	10.07.08	Permanent	Others	8630602518	45	krishna.singh1976@gmail.com
4	Subject Matter Specialist	Dr. Narendra Singh	SMS/Asstt. Prof.	Agronomy	15600-39100	30,160	15.01.09	Permanent	Others	9457168051	45	gnarendra1976@gmail.com
5	Computer Programmer	Er. S.K. Yadav	Prog. Asstt.	Computer Science	9300-34800	74,300	21.10.99	Permanent	OBC	9412117844	47	shailendrayadav31@gmail.com
6	Farm Manager	Dr. Rakesh Kumar	Prog . Asstt.	Plant Breeding	9300-34800	52,000	24.07.08	Permanent	Others	7599151951	54	rakeshnagina@gmail.com
7	Stenographer	Mr. Abdul Gaffar	Jr. Steno	--	9300-34800	58,600	29.08.95	Permanent	Others	9412452148	50	--
8	Driver	Mr. Anil Kumar	Driver	--	5200-20200	31,400	30.07.07	Permanent	SC	9359218476	41	--
9	Attendant	Mr. Satish Chandra Maurya	Attendant	--	5200-20200	36,400	01.07.98	Permanent	OBC	9410860550	55	--

1.6. Total land with KVK (in ha) : 13.35 ha		
SN	Item	Area (ha)
1	Under Buildings	0.40
2	Under Demonstration Units	1.70
3	Under Crops	9.80
4	Orchard	1.20
5	Fish Pond	0.247

**1.7. Infrastructural Development :
(A) Buildings**

SN	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	1999	550	--	--	--	--
2	Farmers Hostel	ICAR	2006	300	--	--	--	--
3	Staff Quarters (6)	ICAR	--	400	--	Nov. 2006	--	Completed
4	Demo. Units (2)	ICAR	--	160	--	Nov. 2006	--	Completed
5	Fencing/Boundary wall	ICAR	--	500 rm	--	Feb. 2007	--	Completed
6	Threshing floor	ICAR	Completed	300	--	Nov. 2006	--	Completed
7	Farm godown	ICAR	--	60	--	June 2006	--	Completed
8	Irrigation Channel	ICAR	--	1000 rm	--	May 2007	--	Completed

(B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep	2009	6,00,000.00	--	Good
Motor Cycle	2010	46,500.00	--	Good
Tractor	1995	--	--	Not working

(C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Diesel engine pump set	1995	--	Poorly working
Zero till ferti seed drill	1998	11,255.00	Poorly working
	1999	11,300.00	Working
	2010	19,500.00	Working
Cultivator	1995	6,000.00	Poorly working
Disc harrow	1995	4,700.00	Poorly working
	2008	22,000.00	Working
Bund maker	1995	3,400.00	Working
Labeller	1995	47,500.00	Working
Tractor trolley	1995	46,000.00	Poorly working
Sugarcane cutter planter	2000	--	Poorly working
Bed Planter	2010	57,500.00	Working
Thresher	1995	17,000.00	Poorly working
Computer	2003	--	Poorly working
LCD	2007	--	Working
ERNET setup (05 Computer, 01 Server & 01 VSAT)	2009	--	Computer working, VSAT not working

1.8. A). Detail of SAC meeting conducted in the year : Date : 11.12.2019

Name and Designation	Salient Recommendations	Action taken
Dr. S K Sachan, Director, Extension, SVPUA&T, Meerut	Trench method of sugarcane should be more popularize with suitable intercrops by KVK scientist	03 training programme of trench method with suitable intercrops including 01 OFT (04 farmers) & 04 FLD programme are conducted during the year 2019-20 & also planned such programme next upcoming year 2020-21.
	Suggested for training on awareness about burning of crop residue and also published related literature	Scientist Plant Breeding and Scientist Agronomy conducted 03 training programme on management of crop residues during 2019-20 and also planned programme next upcoming year 2020-21. In this context The KVK organized 08 programme with 666 farmers under CRM programme during the year.
	Suggested for NAARI and VATICA programme	06 training programme of NAARI and VATICA including 10 FLD programme are conducted during the year 2019-20 and also planned such programme next upcoming year 2020-21.
	Suggested promoting Newly released bio-fortified varieties of crops district.	KVK scientists already conducted FLD on bio-fortified variety of wheat (25 FLD), mustard (30 FLD) and Lentil (10FLD) during 2019-20 and also planned such programme FLD on bio-fortified variety of wheat (40 FLD), mustard (30 FLD) and Lentil (10FLD) next upcoming year 2020-21.
	Suggested for compilation of impact assessment of conducted technology.	KVK Scientist compiled the 04 case study, 04 success stories and 03 entrepreneurs after impact assessment of technology during 2019-20.
	Suggested for more emphasize on DFI village	Such programme included in Action plan
Dr. K. G. Yadav, Associate Professor SVPUA&T, Meerut	KVK scientists should be develop literature based on modern agricultural technologies for farmers purpose	Modern agro technological literature developed by the KVK Scientist based on district and farmers demand during the whole year.
	Suggested for promoting newly varieties in district for better adaption and yield performance.	KVK scientists conducting FLD & OFT programme only newly released varieties.
	Suggested for adoption of new villages for promotion of technology	Such programme included in Action plan
	Suggested to home scientist for deletion of Maize and groundnut shelar training programme	Such programme included in Action plan
Dr. S K Sachan (DE & other SAC Members	Suggested for continue all 03 treatments in OFTs for better improvements.	KVK Scientists conducting OFT programme as per suggestions.
Sh. Vijay Pal Singh	Programme should be promoted on Women's empowerment	Such programme included in Action plan
Sh. Sharad Kumar	Suggested inclusion of ICM technology in major crops	Such programme has been plant during upcoming year.

2. DETAILS OF DISTRICT (2020)

2.1 Major farming systems/enterprises

SN	Farming system/enterprise
1	Integrated agriculture farming systems
2	Integrated crop-livestock-fish farming systems
3	Dairy farming systems
4	Agro-forestry systems

2.2 Description of Agro-climatic Zone & major agro ecological situations

SN	Agro-climatic Zone	Characteristics
1	Mid Western Plain Zone	<ul style="list-style-type: none"> The soils are coarse to medium in texture, moderately well drained, consistently deep and neutral to slightly alkaline in nature Climate of the zone in general is subtropical type The maximum temperature of the district was 41⁰C while minimum was found to be 0.6⁰C Total rain fall of the district is 898.5 mm The fertilizer consumption of the area is 143 kg/ha 83% farmers are having less than 2 ha land, 8% farmers are having 2-4 ha land, while the rest 9% have more than 4 ha land The crops of the zone are sugarcane, rice, wheat, mustard, groundnut, field pea, gram, fodder sorghum etc.
2	Tarai & Bhabar Zone	<ul style="list-style-type: none"> A part of the district falls under this zone The highest temperature is recorded in May, June and the lowest in Dec., Jan. The average rainfall is 1400 mm. Eighty three percent of rains are received from south- west monsoon from June to September The soils are low to medium in available phosphorus, medium to high in organic carbon

b) Topography

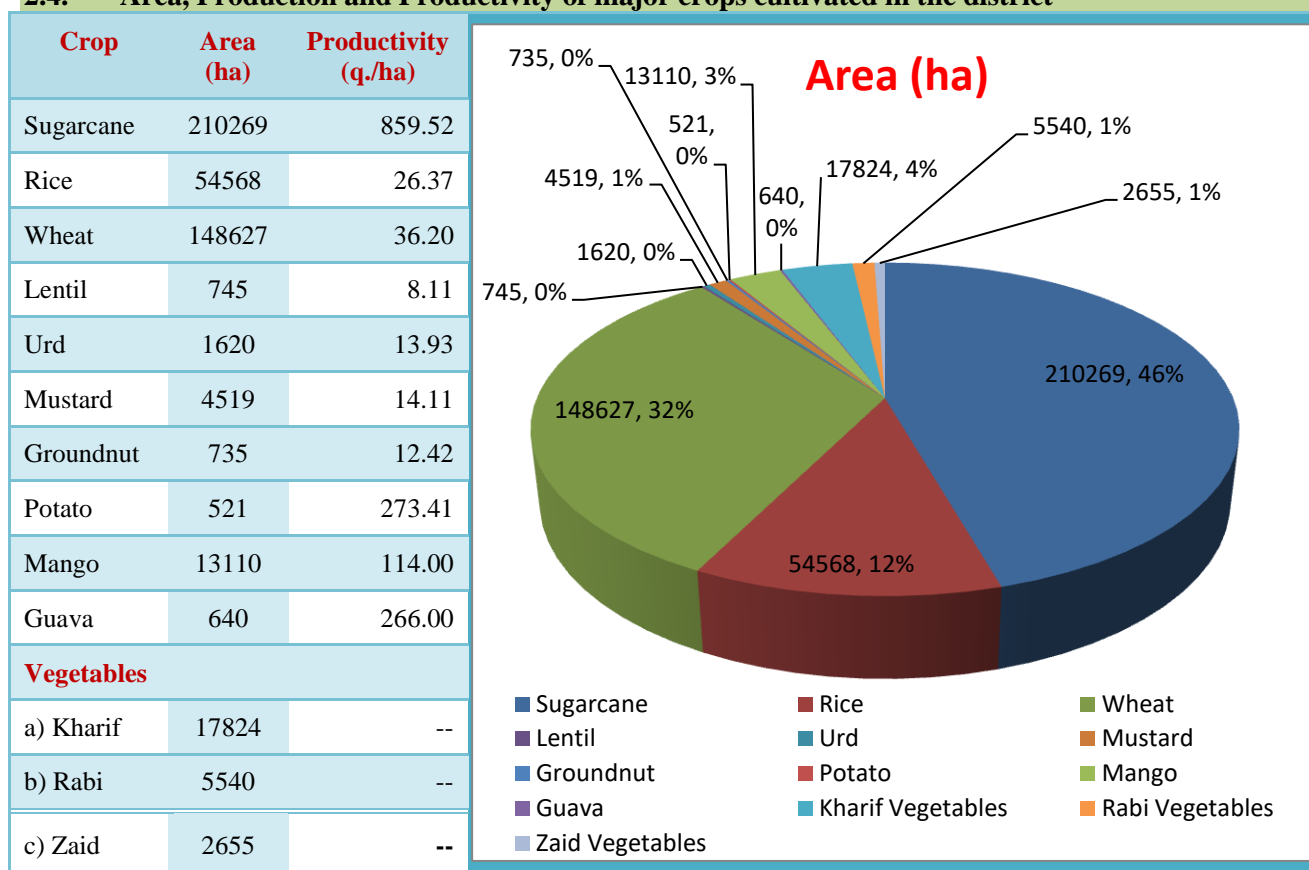
The Topography of Bijnor district is mainly a plain. The district has a pleasing climate with cool and foggy winter and generally hot and humid summer. The wet session starts from July to October during which the district receives rainfall. The temperature of the district is varies from 48⁰C in summer and 3⁰C in winter. These districts have the highest density of population which gives the lowest per capita land. The other two regions, the central and the western are comparatively better with a well-developed irrigation system.

SN	Agro ecological Situation	Characteristics
1	AES-1	Irrigated Sandy Loam, Loam (S.cane predominant)
2	AES-2	Irrigated Loam, Clay Loam soils

2.3 Soil type/s

SN	Soil type	Characteristics	Area in ha
1	Clay loam	Fine-grained minerals, organic matter medium, variable range of water content, clay minerals polar attraction.	179652
2	Sandy loam	Fertile soil with rich nutrient, organic matter medium to high suitable for all arable crops	172428
3	Sandy	Low organic matter content, high porosity, contains large particles, usually light in color. stay loose and allow moisture to penetrate easily	84272

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



2.5. Weather data

Month	Rainfall (mm)	Rainy Days	Temperature °C		Relative Humidity (%)	
			Maximum	Minimum	0716	1416
January, 20	90.6	07	18.1	6.3	97	70
February, 20	38.6	05	23.6	7.7	97	53
March, 20	73.6	08	26.5	12.7	93	51
April, 20	47.0	05	32.6	17.1	87	42
May, 20	28.4	06	36.1	20.7	79	46
June, 20	37.8	04	34.0	25.4	87	60
July, 20	290.8	20	32.2	25.0	92	73
August, 20	485.40	13	32.0	25.0	93	77
September, 20	1.0	01	34.0	24.3	92	64
October, 20	0.0	0	31.0	15.1	95	53
November, 20	02.2	01	26.8	08.1	94	61
December, 20	08.8	01	20.5	05.9	94	70

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

Category		Population	Production	Productivity
Cow		303396	--	--
-Crossbred	95083			
-Indigenous	208313			
Buffalo		663348	--	--
Sheep		7704	--	--
-Crossbred	471			
-Indigenous	7233			
Goats		137355	--	--
Horse		6006	--	--
Pigs		24222	--	--
-Crossbred	6065			
-Indigenous	18157			
Others		1708	--	--
Total Cattle		1143739	--	--
Poultry		275579	--	--

Category	Area	Production (qt.)	Productivity
Fish	78.12 ha	6,310.70	--

2.7 Details of Operational Area /Villages						
SN	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Nagina	Kotwali	Harvanshpur Dhaaram, Khanpur, Saidkheri, Rajpura, Purani, Nejowali Gamdi, Fulsandha Karandachodher, Patpura and Vishoniwala etc.	Sugarcane, Rice, Wheat, French bean, Okra, Mustard, Groundnut, Urd, Moong, Mango and Guava	<ul style="list-style-type: none"> • Insect & Diseases • Old variety seed • Excessive and Imbalanced use of pesticides & fertilizers • No seed treatment, • Poor Management of orchards • No application of micronutrients 	<ul style="list-style-type: none"> • Introduction and Popularization of HYV • Promotion of IPNM, IPM, IDM, ICM • Popularization of intercropping • Promotion of self help group of farmers • Encouragement of Oilseed and Pulses • Rejuvenation of old orchards
2	Dhampur	Allahapur (Dhampur)	Nayagoan and Norangabad	Sugarcane, Rice Wheat, Mustard, Vegetables	<ul style="list-style-type: none"> • Insect & Diseases attack • Excessive and imbalanced use of pesticides & fertilizers • No seed treatment • Reliability of the farmers on chemicals 	<ul style="list-style-type: none"> • Discriminative use of pesticides • Promotion of IPNM, IPM, IDM, ICM • Improving technological skills of fruits farmers • Promotion of self help group of farmers
3	Najibabad	Najibabad	Jattiwalla and Raipur	Vegetable, Fruits, Rice, Wheat and Sugarcane	<ul style="list-style-type: none"> • Unavailability of quality seed of vegetable • Insect & Diseases attack • No seed treatment • Poor management of orchards • No application of micronutrients 	<ul style="list-style-type: none"> • Promotion of suitable and HYV of vegetables • Discriminative use of pesticides • Promotion of IPNM, IPM, IDM, ICM • Improving technological skills of fruits farmers • Promotion of self help group of farmers
4	Nagina	Nehtaur	Kokapur, Begrajpur and Sarayaashnra etc.	Sugarcane, Rice Wheat, Mustard, Vegetables	<ul style="list-style-type: none"> • Insect & Diseases attack • Excessive and imbalanced use of pesticides & fertilizers • No seed treatment • Reliability of the farmers on chemicals 	<ul style="list-style-type: none"> • Introduction and Popularization of HYV • Promotion of IPNM, IPM, IDM, ICM • Popularization of intercropping • Promotion of self help group of farmers • Encouragement of Oilseed and Pulses • Rejuvenation of old orchards
5	Najibabad	Kiratpur	Akbrabad and Sadipur	Vegetable, Fruits, Rice, Wheat and Sugarcane	<ul style="list-style-type: none"> • Unavailability of quality seed of vegetable • Insect & Diseases attack • Excessive and imbalanced use of pesticides & fertilizers • No seed treatment • Poor management of orchards • No application of micronutrients 	<ul style="list-style-type: none"> • Promotion of suitable and HYV of vegetables • Adequate package and practices of vegetables and fruits • Discriminative use of pesticides • Promotion of IPNM, IPM, IDM, ICM • Improving technological skills of fruits farmers • Promotion of self help group of farmers

6	Dhamapur	Seohara	Jamapur, Jat Nagla and Budhanpur	Rice, Wheat, Sugarcane and orchard	<ul style="list-style-type: none"> • Delayed sowing of sugarcane and wheat • Improper management of pests • Sowing of old varieties seeds • Imbalanced use of pesticides & fertilizers • Poor management of orchards • No application of micronutrients 	<ul style="list-style-type: none"> • Promotion of suitable and HYV of vegetables • Adequate package and practices of fruits • Discriminative use of pesticides • Promotion of IPNM, IPM, IDM, ICM • Improving technological skills of sugarcane and rice farmers • Promotion of self help group of farmers
7	Nagina	Afjalgarh	Jamanwala and Muraliwala	Sugarcane, Rice, Wheat, Mustard, Groundnut, Urd, Moong, Mango and Guava	<ul style="list-style-type: none"> • Insect & Diseases • Old variety seed • Excessive and Imbalanced use of pesticides & fertilizers • No seed treatment, • Poor Management of orchards • No application of micronutrients 	<ul style="list-style-type: none"> • Introduction and Popularization of HYV • Promotion of IPNM, IPM, IDM, ICM • Popularization of intercropping • Promotion of self help group of farmers • Encouragement of Oilseed and Pulses • Rejuvenation of old orchards
8	Chandpur	Jalilpur	Bhwanipur and Laddupura	Sugarcane, Rice Wheat, Mustard, Vegetables	<ul style="list-style-type: none"> • Insect & Diseases attack • Excessive and imbalanced use of pesticides & fertilizers • No seed treatment • Reliability of the farmers on chemicals 	<ul style="list-style-type: none"> • Introduction and Popularization of HYV • Promotion of IPNM, IPM, IDM, ICM • Popularization of intercropping • Promotion of self help group of farmers • Encouragement of Oilseed and Pulses • Rejuvenation of old orchards

2.8 Priority Thrust areas

Crop/Enterprise	Thrust area
Sugarcane	<ul style="list-style-type: none">• Popularizing IPM technologies for management of insect pests• Popularizing new agro techniques in sugarcane for farmers doubling income• Promoting quality seed production at farmers field
Paddy	<ul style="list-style-type: none">• Popularizing IPM technologies for management of insect pests• Popularizing new agro techniques in sugarcane for farmers doubling income• Promoting quality seed production at farmers field• Promoting export quality Basmati production
Wheat	<ul style="list-style-type: none">• Popularizing IPM technologies for management of insect pests• Popularizing new agro techniques in sugarcane for farmers doubling income• Promoting quality seed production at farmers field
Lentil	<ul style="list-style-type: none">• Popularizing IPM technologies for management of insect pests• Popularizing new agro techniques in sugarcane for farmers doubling income• Promoting quality seed production at farmers field
Mustard	<ul style="list-style-type: none">• Popularizing IPM technologies for management of insect pests• Popularizing new agro techniques in sugarcane for farmers doubling income• Promoting quality seed production at farmers field
Black Gram	<ul style="list-style-type: none">• Popularizing IPM technologies for management of insect pests• Popularizing new agro techniques in sugarcane for farmers doubling income• Promoting quality seed production at farmers field
Women empowerment	<ul style="list-style-type: none">• Women empowerment through popularization of food preservation technique, NARI & VATICA programme
Others	<ul style="list-style-type: none">• Maintenance of soil productivity through IPNM• Promoting resource conservation techniques in crops• Promoting Group Approach of Extension through FIG• Diversification in orchard management

2.9 Intervention/Programmes for the doubling the farmers income

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
Sole cropping of sugarcane	1127.50	--	--	1,38,811.00	2,27,626.00	2.64	--
--	Mango Squash	--	--	Market available product mango Squash	126.00 (750 ml)	--	--

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

After Interventions	Main crop Yield(q/ha)	Inter crop Yield (q/ha)	Equivalent yield (q/ha)	Cost of cultivation (Rs/ha)*	Net income (Rs/ha)	B:C Ratio	Remark if any
Intercropping System (Autumn Sugarcane)							
Sugarcane + Lentil	1142.00	9.38	1272.31	156102.62	257397.38	2.65	--
Sugarcane + Mustard	1132.50	8.13	1252.50	154806.02	254693.98	2.65	Due to heavy rainfall during the Rabi season, lentil crop affected adversely
Sugarcane + Potato	1317.50	187.50	2182.88	192411.95	517025.55	3.69	Net profit depends on selling price; sometimes farmers get more profit and sometimes less profit
Assessment of income generating activity value addition and capacity building	Value addition of mango product	--	--	780.00	1390.00	1.78	--

*Net profit depends on selling price; sometimes farmers get more profit and sometimes less profit

Programmes conducted in DFI Villages

SN	Name of Villages	Activities/Programmes	No. of Programme	No. of Participants
1	Athai Aheer Block – Noorpur	Awareness Prog. about CRM	01	40
		Swachhta Hi Sewa Karyakram	02	110
		Technology Demonstration	05	05
		On Farm Testing	01	01
		Filed Day	02	40
		Capacity Building Program	02	08
2	Haijarpur Block- Kotwali	Awareness Prog. about CRM	01	55
		Swachhta Hi Sewa Karyakram	02	80
		Technology Demonstration	04	04
		On Farm Testing	01	01
		Filed Day	02	30
		Capacity Building Program	02	10

Scenario at benchmark (2018-19)		Present Scenario (Oct 2020)	
Farming Systems	Annual income (Rs./ha)	Farming Systems	Annual income (Rs./ha)
Sugarcane Sole crop	235181.00	Sugarcane + Potato	387616.00
		Sugarcane + Lentil	290696.30
		Sugarcane + Mustard	290429.43
Wheat	63803.00	Bio fortified Wheat cultivation	91605.00
Oilseed	11020.00	Bio fortified Mustard cultivation	39620.00
Pulses	4022.50	Bio fortified Lentil cultivation	29032.50
Paddy	78500.00	Basmati Rice cultivation	149632.00
--	--	Crop diversification (Banana cultivation)	7,20,000.00
Mango Squash	126.00	Value addition of mango product	1390.00

3. TECHNICAL ACHIEVEMENTS

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

OFT (Technology Assessment)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
08	09	20	33	--	170	200	593

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
PF	100	60	2000	1275	--	487	--	40168
RY		08		80				
EF		20		218				
Skill trg.		--		--				
Total	100	88	2000	1573				

Seed Production (Q.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	303	--	--	--	--

Technology Demonstrated and disseminated through Technology Park

Crop	Technology /Variety
Wheat (Varietal)	WB-02,HPBW-01, DBW-173, HD-2967, HD-3086, DBW-88, PBW-621, PBW-550, DBW-17, PBW-590, DBW-71, DBW-90 and HD-3059
Wheat (Weed Management)	Isoproturan 75 WP @ 1.5 kg/ha, Sulfosulfuran 75% + Metsulfuron 5% @ 40 gm/ha, Mesosulfuranmethyal 3% + Idosulfuranmethyal 0.6% at 400 gm/ha and Clodinofof 15% WP + Metsulfuron 20% @ 40 gm/ha
Paddy (Varietal)	HKR-127, NDR-359, NDR-2008, NDR-2064, PR-113, NB-3,PR-111, HKR-97, SuskSamrat.Arize 6444 Gold, PAC-801, VNR-2335, NPH-150, TEJ Gold, Swift Gold, Prima,VNR-2245, Pusa Basmati-2511, Pusa Basmati-1637,Pusa Basmati-1121, Pusa Basmati-01, PB-1509 T-21, Sharbati (Local grown) and Chandan-21
Paddy (Weed Management)	Bispyribac sodium 10%SC 250 ml/ha, Pretilachlor 2.0 lit/ha and Oxadiagril 112.5gm/ha
Total technology to be demonstrated	80
Approximately No of farmers visited	8500

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Crop Management	Sugarcane	Assessment of drip irrigation and fertigation on cane yield and economics.	01	03
		Assessment of pumpkin as intercrops in sugarcane for increasing the system productivity and profitability.	01	03
Varietal Evaluation	Wheat	Evaluation of newly released high yielding late sown wheat variety against disease resistance.	01	03
		Evaluation of newly released high yielding late sown wheat variety against disease resistance.	01	03
		Evaluation of newly released high yielding timely sown wheat variety against disease resistance.	01	05
		Evaluation of newly released high yielding timely sown wheat variety against disease resistance.	01	05
	Potato	Evaluation of newly released high yielding Potato varieties for processing purpose.	01	03
		Evaluation of newly released high yielding Potato varieties for processing purpose.	01	03
Value Addition	Mango	Value addition in mango squash increase prices as well as it shelf life.	01	05
Total			09	33

Summary of technologies assessed under **livestock** by KVKs : Nil

Summary of technologies assessed under various **enterprises** by KVKs : Nil

I.B. TECHNOLOGY ASSESSMENT IN DETAIL

INTEGRATED CROP MANAGEMENT

OFT- 1 (Agronomy)

Season - Rabi

Year: 2019-20

Problem definition: Enhancement in cost of cultivation and improper management of natural resources.

Technology Assessed: Assessment of drip irrigation and fertigation on cane yield and economics.

About 70% cropping area of Bijnor district are covered by sugarcane crop. The major parts of production cost of sugarcane crop are invested on irrigation and fertilizers and secondly three blocks of district are coming in dark zone. Keeping in mind those facts this experiment was designed by KVK, Bijnor. According to different experimental findings drip irrigation and fertigation increased water use efficiency and quality of products. The main objectives of experiment are how to increase input use efficiency, productivity and quality. On the basis of calculation, installation cost of drip irrigation system are coming Rs. 1,40,000.00/ha out of these Rs. 1,20,000.00/ha farmer received through government subsidy under prime minister irrigation scheme and remaining cost Rs. 20,000.00 paid by farmer, naturally production cost increased Rs. 20000.00 in first year. But results revealed that yield of sugarcane increased 20.10% and net profit 23.06 % under drip irrigation against farmer practice, so we can say drip irrigation system found superior against farmer practice. Yield may be increased due to proper timing and quantity of irrigation and fertilizers. Details of parameters are given below :-

Technology Option	No. of trials	NMC /m ²	Yield (qt./ha)	Increase in yield (%)	Cost of cultivation (Rs./ha)	Net Return (Rs./ha)	B:C Ratio
T ₁ - FP (Trench method)	01 (03 farmers field)	12.5	1161.25	-	130134.80	247271.45	2.90
T ₂ - Drip irrigation		16.2	1406.00	21.10	152709.80	304321.45	2.99



OFT- 2 (Agronomy)

Season - Rabi

Year: 2020-21

Problem definition: Low profitability under sole cropping

Technology Assessed: Assessment of pumpkin as intercrops in sugarcane for increasing the system productivity and profitability.

Sugarcane is a long duration crop, about 70% cropping area of Bijnor district covered under sugarcane, during the year sugarcane growers feel financial and employment problem. Keeping in mind those facts KVK, Bijnor plan assessment of pumpkin as intercrop. The sowing of Sugarcane and intercrop was completed 7.9.2020 and pumpkin 10.9.2020. Variety of pumpkin was taken VNR- P4, first harvesting of pumpkin crop was done 15.11.2020 and 30.11.2020 selling price of pumpkin Rs.15/- kg. The results of complete cropping system are awaited:-

Technology Option	No. of trials	Intercrop yield (qt./ha)	Cane Yield (qt./ha)	CEY (qt./ha)	Cost of cultivation (Rs./ha)	Net Return (Rs./ha)	B:C Ratio
T ₁ = Farmers Practice (sugarcane sole)	01 (03 farmers field)	Result awaited					
T ₂ = Sugarcane + Cucumber							



VARIETAL EVALUATION

OFT-3 (Plant Breeding)

Season – Rabi

Year: 2019-20

Problem definition: Low Productivity of Timely Sown Wheat

Technology Assessed: Evaluation of newly released high yielding timely sown wheat variety against disease resistance.

The KVK Bijnor conducted On-farm trial on timely sown wheat varieties to find out suitable high yielding timely sown wheat varieties for better yield with disease resistance, crop duration and lodging also at farmer's field situation. The varieties tested were HD-3226, DBW-187, PBW-723 and DBW-17 as check. The sowing dates of these varieties are 15 to 20 November 2019 with 04 to 15 April 2020 harvesting dates also. The results revealed that yield increase of Timely sown wheat varieties ranged between 13.33 to 57.77 percent over farmers practice. The variety DBW-187 gave highest yield of 71.00 qt. per ha with net return of Rs. 119825.00 and BCR of 3.52. The others technical data as given below:

- Variety DBW-187 takes more or less same crop duration as comparison to HD-3226, PBW-723 and DBW-17.
- The lodging in DBW-187 is none in comparison HD-3226 (0-4) and PBW-723 (0-6%) and DBW-17 (9-18%)
- Yellow rust incidence in DBW-187 is none while it is about 4-14% in DBW-17.

Evaluation of newly released high yielding variety

Technology Option	No. of trials	Yield (qt./ha)	Increase in yield (%)	Lodging (%)	Disease incidence (%)	Net Return (Rs./ha)	B:C Ratio
T ₁ - Local (DBW-17)	01 (03 farmers field)	45.00	--	9-18	4-14	61833.33	2.24
T ₂ - HD-3226		57.00	26.66	0-4	0.00	91125.00	2.89
T ₃ - DBW-187		71.00	57.77	0.00	0.00	119825.00	3.52
T ₄ - PBW-723		51.00	13.00	0-6	0.00	76975.00	2.58



OFT-4 (Plant Breeding)**Season – Rabi****Year: 2019-20****Problem definition:** Low Productivity of Late Sown Wheat**Technology Assessed:** Evaluation of newly released high yielding late sown wheat variety against disease resistance.

The KVK Bijnor conducted On-farm trial on late sown wheat varieties to find out suitable high yielding late sown wheat varieties for better yield with disease resistance, crop duration and lodging also at farmer's field situation. The varieties tested were PBW-752, WH-1124 and DBW-16 as check. The sowing dates of these varieties are 18 to 25 December 2019 with 06 to 12 April 2020 harvesting dates also. The results revealed that yield increase of Late sown wheat varieties ranged between 16.21 to 24.32 percent over farmers practice. The variety PBW-752 gave highest yield of 46.00 qt. per ha with net return of Rs. 67983.30 and BCR of 2.44. The others technical data as given below:

- Variety PBW-752 takes more or less same crop duration as comparison to WH-1124 and PBW-226.
- The lodging in PBW-752 is none in comparison WH-1124 (0-3) and PBW-226 (14-17%).
- Yellow rust incidence in PBW-752 is none while it is about 7-12% in PBW-226.

Evaluation of newly released high yielding variety

Technology Option	No. of trials	Yield (qt./ha)	Increase in yield (%)	Lodging (%)	Disease incidence (%)	Net Return (Rs./ha)	B:C Ratio
T ₁ - Local (PBW-226)	01 (03 farmers field)	37.00	--	14-20	7-12	46300.00	1.94
T ₂ - PBW-752		46.00	24.32	0-2	0.00	67983.00	2.44
T ₃ - WH-1124		43.00	16.21	3-6	0-2	60125.00	2.25

**OFT- 5 (Plant Breeding)****Season – Rabi****Year: 2020-21****Problem definition:** Low Productivity of Timely Sown Wheat**Technology Assessed:** Evaluation of newly released high yielding timely sown wheat variety against disease resistance.

The KVK Bijnor conducted On-farm trial on timely sown wheat varieties to find out suitable high yielding timely sown wheat varieties for better yield with disease resistance, crop duration and lodging also at farmer's field situation. The varieties tested were HD-3226, DBW-222, and DBW-17 as check. The sowing dates of these varieties are 10 to 20 November 2020.

OFT-6 (Plant Breeding)**Season – Rabi****Year: 2020-21****Problem definition:** Low Productivity of Late Sown Wheat**Technology Assessed:** Evaluation of newly released high yielding late sown wheat variety against disease resistance

The KVK Bijnor conducted On-farm trial on late sown wheat varieties to find out suitable high yielding Late sown wheat varieties for better yield with disease resistance, crop duration and lodging also at farmer's field situation. The varieties tested were HD-3271, HI-1621 and DBW-16 as check. The sowing dates of these varieties are 20 December 2020 to 10 January 2021.

OFT-7 (Plant Breeding)	Season – Rabi	Year: 2020-21
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Problem definition: Low Productivity of Potato

Technology Assessed: Evaluation of newly released high yielding Potato varieties for processing purpose.

The KVK Bijnor conducted On-farm trial on Potato varieties to find out suitable high yielding Processing Potato varieties for better yield with disease resistance. The varieties tested were Kufari Fry Sona, Kufari Chipsona-1 and Kufari Chipsona-1 as check. The sowing dates of these varieties are 18 to 25 October 2020.

OFT-8 (Plant Breeding)	Season – Rabi	Year: 2020-21
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Problem definition: Low Productivity of Potato

Technology Assessed: Evaluation of newly released high yielding Potato varieties for processing purpose.

The KVK Bijnor conducted On-farm trial on Potato varieties to find out suitable high yielding Potato varieties for better yield with disease resistance. The varieties tested were Kufari Neelkanth, Kufari Mohan and Kufari Badshah as check. The sowing dates of these varieties are 18 to 25 October 2020.

VALUE ADDITION

OFT-9 (Home Science)	Season - Kharif	Year: 2020
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Problem definition: Low income of farm women due to preservation and value addition

Technology Assessed: Value addition in mango squash increase prices as well as its shelf life.

The KVK Bijnor conducted On-farm trial on Assessment of mango squash making and its marketing for addition income. Farm women provided with elaborative and view of making mango squash found to be safe for about four months. In demonstration the amount of potassium meta bi sulphate and sugar was taken in accurate amount the attack of mould get reasoned. It was also found that the farm women while making the mango squash can not take the chemical substance sugar in right proportion a result. They approved to problem & mould attack.

Technology Option	No. of trials	Prepared squash (lit)	Total Cost (Rs.)	Total Income (Rs.)	Net Return (Rs.)	B:C Ratio
Mango squash	05	10	600.00	1400.00	800.00	2.33

II. FRONTLINE DEMONSTRATION

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

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

SN	Crop/ Enterprise	Thematic Area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in (ha)
1	Paddy	Basmati Rice	Pusa Basmati-1637	FLD, Training, Field day, electronic/print media	350	1580	3150
		Hybrid Rice	SAVA-127	FLD, Training, Field day, electronic/print media	150	60	350
		Weed management	Bispyribac Sodium 10% SC @250 ml /ha	FLD, Training, Field day, electronic/print media	650	5200	15000
		Weed management	Oxadigryl 80% W.P @ 112.5 gm /ha	FLD, Training, Field day, electronic/print media	320	615	8700
2	Wheat	Timely sown	WB-02	FLD, Training, Field day, electronic/print media	140	2500	3500
			HPBW-01	FLD, Training, Field day, electronic/print media	180	3500	3000
		Late sown	DBW-173	FLD, Training, Field day, electronic/print media	380	3800	3200
		Weed management	Clodinafop 15% WP + Metsulfuron methyl 20% WP	FLD, Training, Field day, electronic/print media	650	7500	65800
3	Mustard	Varietal development	Pusa Mustard – 31	FLD, Training, Field day, electronic/print media	105	290	580
		Nutrient management	Sulphur @ 40 kg/ha and Boron @ 1.5 kg/ha	FLD, Training, Field day, electronic/print media	150	350	700
4	Lentil	Varietal development	Pusa Masoor Ageti	FLD, Training, Field day, electronic/print media	44	115	210
5	Sugarcane	Integrated Crop Management	Trench method of sugarcane sowing	FLD, Training, Field day, electronic/print media	780	7500	62500
		Weed management	Halosulfuron methyl 75% WG @ 90gm / ha	FLD, Training, Field day, electronic/print media	80	110	150
		Intercropping	Sugarcane + Mustard intercropping system	FLD, Training, Field day, electronic/print media	250	710	12000
		Intercropping	Sugarcane + Lentil intercropping system	FLD, Training, Field day, electronic/print media	50	100	250
		Intercropping	Sugarcane + potato intercropping system	FLD, Training, Field day, electronic/print media	40	80	100
				Total	4319	34010	179190

b. Details of FLDs implemented during 2020

SN	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demon.			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
Cluster FLD										
1	Lentil (NFSM)	ICM	Quality Seed	Rabi 2019-20	20.0	10.0	-	25	25	--
2	Urd (NFSM)	ICM	Quality Seed and liquid bio-fertilizer	Zaid 2020	20.0	20.0	-	50	50	--
3	Lentil (NFSM)	ICM	Seed (Result awaited)	Rabi 2020-21	20.0	4.0	-	10	10	--
4	Mustard (NFSM)	ICM	Sulphur (Result awaited)	Rabi 2020-21	30.0	30.0	-	75	75	--
Other FLD										
5	Sugarcane	Weed Management	Halosulfuron methyl 75% WG	Spring 2019	4.0	4.0	--	10	10	--
6	Corse Rice	Varietal Demonstration	PR-126	Kharif 2019	5.0	2.0	--	10	10	--
7	S.cane + Mustard (Participatory)	Integrated Crop Management	Sugarcane + Mustard intercropping system	Rabi 2019-20	4.0	4.0	2	8	10	
8	S.cane + Lentil (Participatory)	Integrated Crop Management	Sugarcane + Lentil intercropping system	Rabi 2019-20	4.0	4.0	--	10	10	--
9	S.cane + potato (Participatory)	Integrated Crop Management	Sugarcane + potato intercropping system	Rabi 2019-20	2.0	2.0	--	05	05	--
10	Sugarcane (Participatory)	Integrated Crop Management	Trench method of sugarcane sowing (30-120-30 cm spacing)	Rabi 2019-20	8.0	8.0	5	15	20	--
11	Sugarcane (Participatory)	Integrated Crop Management	Nursery plantation under late sown condition	Rabi 2019-20	4.0	4.0	-	10	10	--
12	Mustard	Nutrient management	Use of recommended dose of Sulphur	Rabi 2019-20	4.0	4.0	1	09	10	--
13	Mustard	Varietal Demonstration	To demonstrate the yield potential of Mustard variety Pusa Mustard-31	Rabi 2019-20	6.0	6.0	5	25	30	--
14	Lentil	Varietal Demonstration	To demon. the yield potential of Lentil variety	Rabi 2019-20	2.0	2.0	--	10	10	--
15	Wheat	Weed management	Clodinafop 15% WP+Metsulfuron methyl 20% WP	Rabi 2019-20	8.0	8.0	2	18	20	--
16	Wheat	Varietal Demonstration	To demonstrate the yield potential & popularization of Bio fortified Wheat variety WB-02	Rabi 2019-20	4.0	4.0	04	16	20	--
17	Wheat	Varietal Demonstration	To demonstrate the yield potential & popularization of Bio fortified Wheat variety HPBW-01	Rabi 2019-20	4.0	1.0	-	05	05	--
18	Wheat	Varietal Demonstration	To demonstrate the yield potential & popularization of late sown wheat variety DBW-173	Rabi 2019-20	4.0	4.0	02	18	20	--
19	Kitchen Garden	Nutritional security	Hybrid Seed	Rabi 2019-20	1.0	1.0	-	10	10	--

20	Sugarcane	Weed Management	Halosulfuron methyl 75% WG (Result awaited)	Spring 2020	4.0	2.0	--	05	05	Shortage of budget
21	Sugarcane (Participatory)	Ratoon Management	Use of Ratoon manager (Result awaited)	Spring 2020	2.0	2.0	-	10	10	-
22	Sugarcane (Participatory)	Integrated Crop Management	Nursery plantation under late sown condition (Result awaited)	Spring 2020	2.0	2.0	-	05	05	-
23	Sugarcane	Varietal Demonstration	To demonstrate the yield potential & popularization of Sugarcane variety CO-08272	Spring 2020	2.0	2.0	-	05	05	-
24	Paddy	Weed management	Oxadigryl 80% W.P @ 112.5 gm /ha	Kharif 2020	8.0	4.0	-	10	10	Shortage of budget
25	Paddy	Weed management	Bispyribac Sodium 10% SC @250 ml /ha	Kharif 2020	8.0	4.0	-	10	10	Shortage of budget
26	Basmati Rice	Varietal Demonstration	Pusa Basmati 1718	Kharif 2020	5.0	5.0	4	21	25	--
27	Kitchen Garden	Nutritional security	Hybrid Seed	Kharif 2020	2.0	2.0	4	16	20	--
28	Mustard	Nutrient management	Use of recommended dose of Sulphur (Result awaited)	Rabi 2020-21	4.0	4.0	1	09	10	--
29	Mustard	Varietal Demonstration	To demonstrate the yield potential of Mustard variety Pusa Mustard-31 (Result awaited)	Rabi 2020-21	6.0	2.0	1	11	12	--
30	Lentil	Varietal Demonstration	To demonstrate the yield potential & popularization of Bio fortified Lentil variety (Result awaited)	Rabi 2020-21	2.0	0.4	--	10	10	--
31	Wheat	Weed management	Clodinafop 15% WP+Metsulfuron methyl 20% WP (Result awaited)	Rabi 2020-21	8.0	8.0	4	16	20	-
32	Wheat	Varietal Demonstration	To demonstrate the yield potential & popularization of Bio fortified wheat variety HPBW-01 (Result awaited)	Rabi 2020-21	1.0	1.0	--	05	05	--
33	Wheat	Varietal Demonstration	To demonstrate the yield potential & popularization high yielding wheat variety DBW-187 (Result awaited)	Rabi 2020-21	5.0	3.6	3	33	36	--
34	Wheat	Varietal Demonstration	To demonstrate the yield potential & popularization of late sown wheat variety DBW-173 (Result awaited)	Rabi 2020-21	5.0	4.0	2	18	20	
35	Kitchen Garden	Nutritional security	Hybrid Seed	Rabi 2020-21	2.0	2.0	5	15	20	--
36	Mushroom Production	Income Generation	Compost, Span, Chemicals	Rabi 2020-21	-	-	1	9	10	--
	Total				220	170	46	547	593	

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					
Cluster FLD											
Lentil (NFSM)	Rabi 2019-20	Irrigated	Loam	L	M	L	Paddy	20-30.10.2019	05-10.03.2020	--	--
Urd (NFSM)	Zaid 2020	Irrigated	Loam	L	M	L	S.cane & Mustard	15-30.03.2020	07-15.06.2020	--	--
Lentil (NFSM)	Rabi 2020-21	Irrigated	Loam	L	M	L	Paddy	01-05.11.2020	Result awaited	--	--
Mustard (NFSM)	Rabi 2020-21	Irrigated	Loam	L	M	L	Paddy	1-10.11.2020	Result awaited	--	--
Other FLD											
Sugarcane	Spring 2019	Irrigated	Loam	L	M	L	Mustard	15.02.2019 - 15.03.2019	25.02.2020 – 30.03.2020	--	--
Corse Rice (PR-126)	Kharif 2019	Irrigated	Loam	L	M	L	Wheat	04-08.07.2020	27-30.09.2020	--	--
S.cane + Mustard	Rabi 2019-20	Irrigated	Loam	L	M	L	Dhaincha	05-15.10.2019	10-30.11.2020	--	--
S.cane + Lentil	Rabi 2019-20	Irrigated	Loam	L	M	L	Dhaincha	05-15.10.2019	10-30.11.2020	--	--
S.cane + potato	Rabi 2019-20	Irrigated	Loam	L	M	L	Dhaincha	05-15.10.2019	10-30.11.2020	--	--
Sugarcane (Trench)	Rabi 2019-20	Irrigated	Loam	L	M	L	Dhaincha	15-25.9.2019	10-30.11.2020	--	--
Sugarcane (nursery Planting)	Rabi 2019-20	Irrigated	Loam	L	M	L	Paddy	01-05.11.2019	10-30.11.2020	--	--
Mustard	Rabi 2019-20	Irrigated	Loam	L	M	L	Paddy	15-25.10.2019	05-10.03.2020	--	--
Mustard (PM-31)	Rabi 2019-20	Irrigated	Loam	L	M	L	Paddy	20-25.10.2019	05-10.03.2020	--	--
Lentil (Pusa Masoor Ageti)	Rabi 2019-20	Irrigated	Loam	L	M	L	Paddy	20-30.10.2019	20-28.02.2020	--	--
Wheat	Rabi 2019-20	Irrigated	Loam	L	M	L	Rice	20-25.11.2019	04-15.04.2020	--	--
Wheat (WB-02)	Rabi 2019-20	Irrigated	Loam	L	M	L	Rice	20-25.11.2019	04-15.04.2020	--	--
Wheat (HPBW-01)	Rabi 2019-20	Irrigated	Loam	L	M	L	Rice	18-25.11.2019	07-15.04.2020	--	--
Wheat (DBW-173)	Rabi 2019-20	Irrigated	Loam	L	M	L	Sugarcane	20-26.12.2019	03-14.04.2020	--	--
Kitchen Garden	Rabi 2019-20	Irrigated	Loam	L	M	L	--	14.10.2019	02.12.2019 - 30.01.2020	--	--
Sugarcane (Weedicide)	Spring 2020	Irrigated	Loam	L	M	L	Mustard	15.02.2020 - 15.03.2020	Result awaited	--	--
Sugarcane (Ratoon manager)	Spring 2020	Irrigated	Loam	L	M	L	Plant cane	25-30.3.2020	1-10.1.2021	--	--
Sugarcane (Nursery plantation)	Spring 2020	Irrigated	Loam	L	M	L	Wheat	1-10.5.2020	Result awaited	--	--

Sugarcane (Co-08272)	Spring 2020	Irrigated	Loam	L	M	L	Wheat	1-10.03.2020	Result awaited	--	--
Paddy	Kharif 2020	Irrigated	Loam	L	M	L	Wheat	05-15.07.2020	25-30.10.2020	--	--
Paddy	Kharif 2020	Irrigated	Loam	L	M	L	Wheat	08-20.07.2020	22-30.10.2020	--	--
Basmati Rice (PB-1718)	Kharif 2020	Irrigated	Loam	L	M	L	Wheat	11-17.07.2020	24-30.10.2020	--	--
Kitchen Garden	Kharif 2020	Irrigated	Loam	L	M	L	--	02.06.2020	17.08.2020 - 25.09.2020	--	--
Mustard	Rabi 2020-21	Irrigated	Loam	L	M	L	Paddy	20-30.10.2020	Result awaited	--	--
Mustard (P-31)	Rabi 2020-21	Irrigated	Loam	L	M	L	Paddy	12-20.10.2020	Result awaited	--	--
Lentil (Pusa Masoor Ageti)	Rabi 2020-21	Irrigated	Loam	L	M	L	Paddy	18-25.10.2020	Result awaited	--	--
Wheat	Rabi 2020-21	Irrigated	Loam	L	M	L	Paddy	20-30.11.2020	Result awaited	--	--
Wheat (HPBW-01)	Rabi 2020-21	Irrigated	Loam	L	M	L	Paddy	15-20.11.2020	Result awaited	--	--
Wheat (DBW-187)	Rabi 2020-21	Irrigated	Loam	L	M	L	Paddy	12-20.11.2020	Result awaited	--	--
Wheat (DBW-173)	Rabi 2020-21	Irrigated	Loam	L	M	L	Sugarcane	22-25.12.2019	Result awaited	--	--
Kitchen Garden	Rabi 2020-21	Irrigated	Loam	L	M	L	--	21.10.2020	Result awaited	--	--
Mushroom Production	Rabi 2020-21	Irrigated	Loam	L	M	L	--	13.10.2020	16.11.2020 - 02.01.2021	--	--

Technical Feedback on the demonstrated technologies

SN	Crop/Technology	Feed back
1	CFLD on Pulses	<ul style="list-style-type: none"> Complete package and practice and financial support required for pulse production. Boundary Fencing are essential component for pulse production for security of wild animals.
2	Sugarcane - Trench Method	<ul style="list-style-type: none"> Trench method found superior against traditional method in case of productivity and resource optimization. Increase 35-40% sugarcane yield.
3	Sugarcane + Mustard	<ul style="list-style-type: none"> Intercropping system found significantly superior over the sole cropping. After calculation of CEY we found that farmer get 15-20% additional yield.
4	Sugarcane + Lentil	<ul style="list-style-type: none"> Intercropping system found significantly superior over the sole cropping. After calculation of CEY we found that farmer get 15-18% additional yield.
5	Sugarcane + potato	<ul style="list-style-type: none"> Intercropping system found significantly superior over the sole cropping. After calculation of CEY we found that farmer get 50-55% additional yield.
6	Sugarcane - IWM (Halosulfuron methyl 75% WG)	<ul style="list-style-type: none"> Cyprus rotendus weeds control effectively and farmers save Rs.10000 -12000 cost of cultivation. Increase 3-5% yield due to timely management of weeds.

7	Paddy - IWM (Bispyribac sodium 10% SC)	<ul style="list-style-type: none"> • Bispyribac sodium controlled weeds effectively during critical stage of crop weed competition (30-60 days) consequently, • Yield increased 20-26%.
8	Paddy - IWM (Oxadigryl 80% W.P)	<ul style="list-style-type: none"> • Oxadigryl found suitable against Butachlor in case of weed resistance and cost of weedicides
9	Mustard (PM-31)	<ul style="list-style-type: none"> • Disease incidence in PM-31 is not seen while it is about 3-8% in Check variety. • Better yield of PM-31 against check variety.
10	Lentil (Pusa Masoor Ageti)	<ul style="list-style-type: none"> • Variety PMA takes less crop duration (101-105) as comparison to Check (122-128). Due to this crop duration it is suitable for adverse environment condition and for Sugarcane cropping system. • Disease incidence in PMA is non while it is about 11-20% in Check.
11	Wheat (WB-02)	<ul style="list-style-type: none"> • Variety WB-02 takes less crop duration (135-140) as comparison to PBW-17 (140-145). Due to this crop duration it is suitable for adverse environment condition. • Disease incidence in WB-02 is not seen while it is about 8-18% in PBW-17 • Lodging in WB-02 is less (3-8%) as comparison PBW-17(14-20%) due to its short stature of plant
12	Wheat (HPBW-01)	<ul style="list-style-type: none"> • Variety HPBW-01 takes less crop duration (140-142) as comparison to PBW-550 (141-148). Due to this crop duration it is suitable for adverse environment condition. • Disease incidence in HPBW-01 is not seen while it is about 8-18% in PBW-550 • Lodging in HPBW-01 is less (0-4%) as comparison PBW-550 (14-20%) due to its short stature of plant
13	Wheat (DBW-173)	<ul style="list-style-type: none"> • Variety DBW-173 is resistant to temperature fluctuation. Due to this crop is suitable for adverse environment condition. • Disease incidence in DBW-173 is not seen while it is about 7-13% in DBW-16. • Lodging in DBW-173 is less (0-3%) as comparison DBW-16 (11-22%) due to its short stature of plant
14	Basmati Rice - (PB-1718)	<ul style="list-style-type: none"> • Disease incidence in PB-1718 is less (0-7) seen while it is about 8-17% in PB-1 • Lodging in PB-1718 is less (0-4%) as comparison to PB-1(11-15%) due to its short stature of plant
15	Corse Rice (PR-126)	<ul style="list-style-type: none"> • Variety PR-126 takes less crop duration (118-120) as comparison to PR-113 (130-135) • Disease incidence in PR-126 is very less (0-3) while it is about 8-15% in PR-113 • Lodging in PR-126 is less (0-5%) as comparison to PR-113 (10-14%)
16	Mustard (Sulphur)	<ul style="list-style-type: none"> • Sulphur increase upto 12 % yield of mustard. Therefore popularity required among the farmers.
17	Wheat (Clodinafop + Metsulfuron methyl)	<ul style="list-style-type: none"> • Weeds are developed resistance against old weedicides (Isoproturon). • There is no any phytotoxic effect of that weedicides Clodinafop & Metsulfuron methyl.
18	Kitchen Garden	<ul style="list-style-type: none"> • Good quality hybrid seed appreciated by farm women.
19	Mushroom Production	<ul style="list-style-type: none"> • Entrepreneurship development and nutritional security through mushroom.

Farmers' reactions on specific technologies

SN	Crop/Technology	Feed back
1	CFLD on Pulses	<ul style="list-style-type: none"> Wild animals much more loss in pulses crops, for successful cultivation of pulse crop boundary fencing is a essentially require.
2	Sugarcane - Trench Method	<ul style="list-style-type: none"> Farmers feel much better due to more productivity under trench method.
3	Intercropping system	<ul style="list-style-type: none"> Farmers feel labour crises.
4	Sugarcane - IWM (Halosulfuron methyl 75% WG)	<ul style="list-style-type: none"> Farmers feel better in case of labour crises.
5	Paddy - IWM (Bispyribac sodium 10% SC)	<ul style="list-style-type: none"> The bispyribac sodium effectively control weeds as comparison to other weedicides used by farmers.
6	Paddy - IWM (Oxadigryl 80% W.P)	<ul style="list-style-type: none"> It is good under pre-emergence condition.
7	Mustard (PM-31)	<ul style="list-style-type: none"> Market potential of PM-31 is better than other mustard variety due to their high demand. Farmers like very much Wheat variety PM-31 due to high nutritional quality against other Mustard varieties.
8	Lentil (Pusa Masoor Ageti)	<ul style="list-style-type: none"> Market potential of PMA is better than Check due to their high demand. Farmers like very much Lentil variety PMA due to their short crop duration and high nutritional quality against other Lentil varieties.
9	Wheat (WB-02)	<ul style="list-style-type: none"> Market potential of WB-02 is better than DBW-17 due to their high demand. Farmers like very much Wheat variety WB-02 due to their short crop duration & high nutritional quality against other wheat varieties
10	Wheat (HPBW-01)	<ul style="list-style-type: none"> Market potential of HPBW-01 is better than PBW-550 due to their high demand. Farmers like very much Wheat variety HPBW-01 due to their high nutritional quality against other wheat varieties.
11	Wheat (DBW-173)	<ul style="list-style-type: none"> Market potential of DBW-173 is better than DBW-16 due to their higher yield potential
12	Basmati Rice (PB-1718)	<ul style="list-style-type: none"> Farmers like very much basmati variety pusa basmati 1718 due to their higher yield against Sarbati (Local, non identified variety).
13	Corse Rice (PR-126)	<ul style="list-style-type: none"> Farmers like very much Corse Rice variety PR-126 due to their higher yield and less crop duration against other corse rice variety
14	Mustard (Sulphur)	<ul style="list-style-type: none"> They get more yields in comparison to without sulphur.
15	Wheat (Clodinafop + Metsulfuron methyl)	<ul style="list-style-type: none"> Weeds controlled effectively and no phytotoxic effect of weedicides on crop.
16	Kitchen Garden	<ul style="list-style-type: none"> Farm women like hybrid varieties.
19	Mushroom Production	<ul style="list-style-type: none"> Entrepreneurship development by mushroom

Extension and Training activities under FLD

SN	Crop	Activity	No. of activities organized	Date	Number of participants	Remarks
1	CFLD Lentil	Farmers Training	01	17.10.2020	20	--
2	CFLD Urd	Farmers Training	01	11.03.2020	20	
3	Sugarcane - Trench Method	Farmers Training	02	05.09.2020 & 11.09.2020	40	--
		Field days	02	15.01.2020 & 28.02.2020	50	--

4	Sugarcane intercropping system	Farmers Training	02	04.09.2020 & 16.10.2020	40	--
		Field days	01	28.02.2020	62	--
5	Sugarcane - IWM (Halosulfuron methyl 75% WG)	Farmers Training	01	06.04.2020	20	--
		Field days	01	11.04.2020	24	--
		Field days	01	01.10.2020	60	--
6	Paddy - IWM (Bispyribac sodium 10% SC) & (Oxadigryl 80% W.P)	Farmers Training	01	27.06.2020	20	--
7	Basmati Rice - (PB-1718)	Farmers Training	03	16.05.2020, 18.05.2020, 12.06.2010	70	--
		Field days	01	29.09.2019	70	--
8	Corse Rice -(PR-126)	Farmers Training	01	22.05.2020	26	--
		Field days	01	03.10.2020	60	--
9	Mustard (PM-31)	Farmers Training	02	04.10.2019 & 16.10.2019	40	--
		Field days	02	27.02.2020	90	--
10	Mustard (Sulphur)	Farmers Training	01	22.09.2020	20	--
11	Lentil (Pusa Masoor Ageti)	Farmers Training	01	19.10.2019	20	--
		Field days	01	06.03.2020	80	--
12	Wheat (WB-02)	Farmers Training	02	15.11.2019 & 12.12.2019	40	--
		Field days	01	22.03.2020	17	--
13	Wheat (HPBW-01)	Farmers Training	01	13.11.2010	20	--
		Field days	01	24.03.2020	15	--
14	Wheat (DBW-173)	Farmers Training	01	12.12.2019	20	--
		Field days	02	05.04.2020 & 06.04.2020	31	--
15	Wheat (Clodinafop + Metsulfuron methyl)	Farmers Training	01	09.12.2020	20	--
		Field days	01	19.03.2020	20	--
16	Kitchen Garden	Farm women Training	04	03.01.2020, 21.01.2020, 14.05.2020, 01.06.2020	80	--

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										
Mustard	VE	Pusa Mustard-31	Pusa Mustard-31	30	6.0	22.00	12.00	17.33	11.37	52.41	29833.33	86650.00	57366.67	2.95	28014.33	77985.00	49970.67	2.78
Mustard	ICM	Sulphur	Sulphur	10	4.0	13.88	9.38	12.63	11.25	12.22	26248.25	56812.50	30564.25	2.16	25031.38	50625.00	25594.00	2.02
Mustard	ICM	Recommended dose of Sulphur	PM-31	75	30	Result awaited												
Mustard	VE	Pusa Mustard-31	Pusa Mustard-31	12	2.0	Result awaited												

Frontline demonstrations 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										
Lentil	ICM	Quality Seed and liquid bio-fertilizer	PL-08	25	10.0	12.20	8.85	10.39	8.07	28.50	37942.96	52964.52	15021.56	1.39	30347.00	41163.00	10815.00	1.36
Lentil	VE	Pusa Masoor Ageti	Pusa Masoor Ageti	10	2.0	18.00	13.60	14.86	9.03	64.56	32800.00	71328.00	38528.00	2.17	33685.00	43344.00	9659.00	1.28
Lentil	ICM	Quality Seed	L-4717	10	4.0	Result awaited												
Lentil	VE	Pusa Masoor Ageti	Pusa Masoor Ageti	10	2.0	Result awaited												
Urd	ICM	Quality Seed	PU-31	50	20.0	13.50	9.47	11.66	9.18	26.95	32416.70	69931.20	37514.50	2.15	29512.75	55095.00	25582.25	1.87

FLD on Other Crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Cereals																			
Paddy										No. of weeds m ²									
Paddy	Weed Management	Oxadigryl 80% W.P	10	4.0	46.88	40.13	43.75	37.63	16.28	22.4	60.2	49030.00	111562.50	62532.50	2.28	48880.50	98943.75	47063.25	1.96
Paddy	Weed Management	Bispyribac Sodium 10% sc	10	4.0	68.75	51.25	60.75	50.13	10.63	10.40	60.80	49280.50	112387.50	63107.000	2.28	47880.50	92731.25	44850.75	1.94

Scented Rice										Disease incidence (%)									
Basmati Rice	Varietal improvement	PB-1718	25	5.0	57.5	47.50	53.35	41.87	27.41	0-7	8-17	44348.00	163235.00	118887.00	3.68	46934.00	131105.00	84171.00	2.79
										Lodging (%)									
										0-4	11-15								
Corse Rice																			
Corse Rice	Varietal improvement	PR-126	20	4.0	70.00	55.00	62.93	55.24	9.02	0-3	8-15	45973.50	151629.30	105656.30	3.29	47150.50	13436.70	82211.22	2.84
										Lodging (%)									
										3-5	10-14								
Wheat										No. of weeds m ²									
Wheat	Weed management	Clodinafop 15% W.P + Metsulfuron methyl 20 % W.P.	20	8.0	58.75	44.50	51.50	43.13	19.42	2.2	42.4	44898.75	124887.50	79988.75	2.78	43051.75	104578.13	61526.38	2.43
Timely Sown										Disease incidence (%)									
Wheat (WB-02)	VE	WB-02	20	4.0	62.50	50.00	53.87	42.01	28.25	Disease incidence (%)		46875.00	132229.80	84354.75	2.79	49850.00	104609.10	57734.06	2.23
										0	15-20								
										Lodging (%)									
										0-5	18-22								
Wheat (HPBW-01)	VE	HPBW-01	05	1.0	57.50	47.50	52.50	42.75	22.80	Disease incidence (%)		46760.00	128000.00	81240.00	2.73	49510.00	104300.00	54790.00	2.10
										0	8-18								
										Lodging (%)									
										0-5	14-20								
Late Sown										Disease incidence (%)									
Wheat (DBW-173)	VE	DBW-173	20	4.0	55.00	41.25	47.62	40.35	18.01	Disease incidence (%)		46780.00	118365.00	71585.63	2.53	49830.00	101858.75	52028.75	2.04
										0	15-20								
										Lodging (%)									
										0-5	18-22								
Fruit crops																			
Mango																			

Commercial Crops																			
Sugarcane									No. of hoeing										
Sugarcane	Weed Management	Hellosulfuron methyl	05	2.0	1087.5	818.75	980.00	937.50	4.53	03	04	120391.25	318500.00	198108.75	2.65	124053.55	304687.50	180633.95	2.46
									Cane wt. (Kg)										
Sugarcane	ICM	Trench method	20	8.0	1887.5	1112.5	1487.5	1081.25	37.57	1.68	1.06	144903.50	483437.50	338533.95	3.34	151834.80	351406.25	199571.45	2.31
Sugarcane	ICM	Nursery plantation	10	4.0	1562.5	1135.0	1476.25	1036.25	42.46	1.75	1.02	126909.80	479781.25	352871.45	3.78	123509.8	336781.25	213271.45	2.73
Sugarcane Ratoon	ICM	Ratoon manager	05	2.0	1175	750	1095	902.50	21.33	1.52	1.12	71768.05	355875	284106.95	4.96	65030.55	293312.5	228281.95	4.51

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check (single crop)		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					Cane yield	Intercrops yield	CEY										
Sugarcane + Mustard	ICM	Sugarcane + Mustard intercropping	10	4.0	1142.00	9.38	1272.31	1127.50	11.51	156102.62	413500.00	257397.38	2.65	138811.05	366437.50	227626.45	2.64
Sugarcane + Lentil	ICM	Sugarcane + Lentil Intercropping	10	4.0	1132.50	8.13	1252.50	1127.50	10.64	154806.02	409500.00	254693.98	2.65	138811.05	366437.50	227626.45	2.64
Sugarcane + Potato	ICM	Sugarcane + Potato intercropping	05	2.0	1317.50	187.50	2182.88	1127.50	76.75	192411.95	709437.50	517025.55	3.69	138811.05	366437.50	227626.45	2.64

FLD on Other Enterprise: Kitchen Gardening

Category & Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	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)
Kitchen Garden	Nutritional security	Seed of vegetables	10	10	84.00	65.00	175.00	--	--	590.00	3200.00	2610.00	5.42	560.00	1000.00	440.00	1.78
Kitchen Garden	Nutritional security	Seed of vegetables	20	20	95.00	75.00	118.00	--	--	5980.00	32100.00	26120.00	5.36	5560.00	10000.00	4440.00	1.79
Mushroom Production	Income Generation	Compost, Span, Chemicals	10	10	3.00	2.50	4.00	--	--	550.00	1875.00	1325.00	1.42	500.00	905.00	405.00	0.55

Glimpses of ICM and Resource Conservation during the Year

			
Sugarcane Planting by Trench method	Sugarcane + Lentil intercropping	Sugarcane + Potato intercropping	Sugarcane + Mustard intercropping
			
Use of Ratoon Manager Equipment in sugarcane ratoon	Sugarcane + Mustard+ Wheat intercropping	ICM in Wheat	CFLD on mustard
			
Sugarcane Nursery Raising	Plantation of Sugarcane Nursery	Weed Managent in Rice through Oxadygril 80% W.P	Weed Managent in Rice through Bispyribac Sodium 10% SC



Preparation of nursery raising for rice transplanter



Prepare nursery for rice transplanter



Sugarcane + Urd intercropping



Wheat Variety DBW-187 + Clodinafop + Metsulfuron

Glimpses of Varietal Technology during the Year



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										
Integrated Crop Management	05	90	-	90	10	-	10	100	-	100
Mechanization	01	20	-	20	-	-	-	20	-	20
Resource Conservation Technologies	02	36	-	36	04	-	04	40	-	40
Crop Diversification	01	20	-	20	-	-	-	20	-	20
Total	09	166	-	166	14	-	14	180	-	180
II Horticulture										
III Soil Health and Fertility Management										
IV Livestock Production and Management										
V Home Science/Women empowerment										
Women and child care	1	-	18	18	-	2	2	-	20	20
Drudgery reduction	1	-	18	18	-	2	2	-	20	20
Value Addition	1	-	11	11	-	9	9	-	20	20
Total	3	-	47	47	-	13	13	-	60	60
VI Agril. Engineering										
VII Plant Protection										
VIII Fisheries										
IX Production of Inputs at site										
X Capacity Building and Group Dynamics										
XI Agro-forestry										
XII Plant Breeding										
Seed Production & varietal improvement	10	240	-	240	35	-	35	275	-	275
Diversification	3	49	-	49	11	-	11	60	-	60
Resource conservation	1	18	-	18	02	-	02	20	-	20
Total	14	307	-	307	48	-	48	355	-	355
GRAND TOTAL	26	473	47	520	62	13	75	535	60	595

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										
Integrated Nutrient Management	03	52	-	52	08	-	08	60	-	60
Weed Management	02	38	-	38	02	-	02	40	-	40
Residue Management	01	16	-	16	04	-	04	20	-	20
Resource Conservation Technologies	01	16	-	16	04	-	04	20	-	20
Integrated Crop Management	03	52	-	52	08	-	08	60	-	60
Crop Diversification	02	33	-	33	07	-	07	40	-	40
Total	12	207	-	207	33	-	33	240	-	240
II Horticulture										
III Soil Health and Fertility Management										
IV Livestock Production and Management										
V Home Science/Women empowerment										
Drudgery reduction	4	-	71	71	-	9	9	-	80	80
Value Addition	3	-	56	56	-	4	4	-	60	60
Women and child care	2	-	40	40	-	-	-	-	40	40
Household food security by kitchen grading & nutrition grading	6	-	91	91	-	29	29	-	120	120
Total	15	-	258	258	-	42	42	-	300	300
VI Agril. Engineering										
VII Plant Protection										
VIII Fisheries										
IX Production of Inputs at site										
X Capacity Building and Group Dynamics										
XI Agro-forestry										
XII Plant Breeding										
Seed Production & varietal improvement	2	32	-	32	8	-	8	40	-	40
Diversification	4	70	-	70	10	-	10	80	-	80
Resource conservation	1	18	-	18	02	-	02	20	-	20
Total	7	120	-	120	20	-	20	140	-	140
GRAND TOTAL	34	327	258	585	53	42	95	380	300	680

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										
Crop Diversification	3	53	0	53	7	0	7	60	0	60
Integrated Crop Management	8	142	0	142	18	0	18	160	0	160
Integrated Nutrient Management	3	52	-	52	8	-	8	60	-	60
Mechanization	1	20	-	20	-	-	-	20	-	20
Residue Management	1	16	-	16	4	-	4	20	-	20
Resource Conservation Technologies	3	52	0	52	8	0	8	60	0	60
Weed Management	2	38	-	38	2	-	2	40	-	40
Total	21	373	0	373	47	0	47	420	0	420
II Horticulture										
III Soil Health and Fertility Management										
IV Livestock Production and Management										
V Home Science/Women empowerment										
Drudgery reduction	5	0	89	89	0	11	11	0	100	100
Household food security by kitchen grading & nutrition grading	6	-	91	91	-	29	29	-	120	120
Value Addition	4	0	67	67	0	13	13	0	80	80
Women and child care	3	0	58	58	0	2	2	0	60	60
Total	18	0	305	305	0	55	55	0	360	360
VI Agril. Engineering										
VIII Fisheries										
IX Production of Inputs at site										
X Capacity Building and Group Dynamics										
XII Plant Breeding										
Diversification	7	119	0	119	21	0	21	140	0	140
Resource conservation	2	36	0	36	4	0	4	40	0	40
Seed Production & varietal improvement	12	272	0	272	43	0	43	315	0	315
Total	21	427	0	427	68	0	68	495	0	495
GRAND TOTAL	60	800	305	1105	115	55	170	915	360	1275

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
Organic Farming	1	4	-	4	6	-	6	10	-	10
Precision Farming	1	8	-	8	2	-	2	10	-	10
Production of Export Quality Basmati Rice	1	8	-	8	2	-	2	10	-	10
Seed production	3	25	-	25	5	-	5	30	-	30
Value addition	1	-	8	8	-	2	2	-	10	10
Mushroom Production	1	-	9	9	-	1	1	-	10	10
TOTAL	8	45	17	62	15	3	18	60	20	80

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
Organic Farming	1	4	-	4	6	-	6	10	-	10
Precision Farming	1	8	-	8	2	-	2	10	-	10
Production of Export Quality Basmati Rice	1	8	-	8	2	-	2	10	-	10
Seed production	3	25	-	25	5	-	5	30	-	30
Value addition	1	-	8	8	-	2	2	-	10	10
Mushroom Production	1	-	9	9	-	1	1	-	10	10
TOTAL	8	45	17	62	15	3	18	60	20	80

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
Nursery Management	1	6	-	6	4	-	4	10	-	10
Integrated Crop Management	4	24	-	24	16	-	16	40	-	40

Resource Conservation Technologies	2	12	-	12	8	-	8	20	-	20
Seed Production	3	43	-	43	5	-	5	48	-	48
Varietal Diversification	5	45	-	45	5	-	5	50	-	50
Women and Child care	2	-	12	12	-	8	8	-	20	20
Storage	1	-	6	6	-	4	4	-	10	10
Gender mainstreaming through SHGs	1	-	6	6	-	4	4	-	10	10
TOTAL	19	130	24	154	38	16	54	168	40	208

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
Integrated Crop Management	1	8	-	8	2	-	2	10	-	10
TOTAL	1	8	-	8	2	-	2	10	-	10

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
Nursery Management	1	6	-	6	4	-	4	10	-	10
Integrated Crop Management	5	32	-	32	18	-	18	50	-	50
Resource Conservation Technologies	2	12	-	12	8	-	8	20	-	20
Seed Production	3	43	-	43	5	-	5	48	-	48
Varietal Diversification	5	45	-	45	5	-	5	50	-	50
Women and Child care	2	-	12	12	-	8	8	-	20	20
Storage	1	-	6	6	-	4	4	-	10	10
Gender mainstreaming through SHGs	1	-	6	6	-	4	4	-	10	10
TOTAL	20	138	24	162	40	16	56	178	40	218

Glimpses of Training Programmes during the Year



Sponsored Training Programmes	:	Nil
Details of vocational training programmes carried out by KVKs for rural youth	:	Nil

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	-	-	-	-
Farmer visit at KVK	148	3200	88	3288
Diagnostic visits	10	70	10	80
Field Day	14	553	10	563
Group discussions	05	140	10	150
Kisan Ghosthi	11	12000	140	12140
Film Show	03	310	15	325
Self -help groups	-	-	-	-
Kisan Mela	4	5500	210	5710
Exhibition	1	1000	110	1110
Scientists' visit to farmers field	70	1210	30	1240
Plant/animal health camps	-	-	-	-
Farm Science Club	-	-	-	-
Ex-trainees Sammelan	-	-	-	-
Farmers' seminar/workshop	-	-	-	-
Method Demonstrations	10	140	30	170
Celebration of important days	1	52	0	52
Special day celebration/Kisan Diwas (23.12.20)	1	40	2	42
Exposure visits	-	-	-	-
Lecture Delivers by KVK scientist	85	15000	350	15350
Krishi Rath/Pre Kharif abhyan	-	-	-	-
Total	363	39215	1005	40220

Details of other extension programmes

Particulars	Number
Electronic Media (CD/DVD)	--
Extension Literature	33
News paper coverage	80
Popular articles	01
Radio Talks	04
TV Talks	01
Animal health amps (Number of animals treated)	--
Research Paper	06
Total	125

Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Market-ing	Aware-ness	Other enterprise	Total
Nagina (Bijnor)	Text only	70	-	-	-	10	-	80
	Voice only	40	-	-	-	05	-	45
	Voice & Text both	-	-	-	-	-	-	-
	Total messages	110	-	-	-	15	-	125
	Total farmer benefitted	350	-	-	-	60	-	410

Technology dissemination through Electronic & Social Media

Programmes	No, of Programmes	Participants
Telephonic Advice	1110	
Message delivered on Facebook	04	--
Message delivered on Tweeter	04	--
Message delivered on Whatsapp Group (10 Groups)	160	1800
Voice Message delivered on Whatsapp Group (08 Groups)	60	950
Video call through Whatsapp	35	410



आंधी, ओलावृष्टि से नहीं होगा गेहूँ की नई प्रजातियों को नुकसान

संकाय मूल एग्रेसी 30 अंशका का नुकसान बचाव का है। ये भी नुकसान के उपचार में किसानों को मदद देगा।

विशेषज्ञों का कहना है कि नई प्रजातियों को नुकसान नहीं होगा।

कृषि

किसान करेंगे रोग मुक्त बासमती धान की खेती

बासमती धान की 1121 प्रजाति रोगमुक्त है। किसानों को रोग मुक्त बासमती धान की खेती करने का अवसर मिलेगा।

मृदा सुधार हेतु जैविक खाद का करें प्रयोग: डा. नरेन्द्र

कृषि विभाग के जैविक खाद का उपयोग करने के लिए किसानों को प्रोत्साहित किया जा रहा है।

कृषि विभाग के जैविक खाद का उपयोग करने के लिए किसानों को प्रोत्साहित किया जा रहा है।

कृषि विभाग के जैविक खाद का उपयोग करने के लिए किसानों को प्रोत्साहित किया जा रहा है।

Glimpses of Extension Activities during the Year





V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

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

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

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Rice	Pusa Basmati -1509	--	143.00	--	--
	Wheat	HD-3059	--	160.00	--	--
Total				303.00	--	

Details of participatory quality seed production at farmer's field

Crop	Variety	Production (q.)	F to F Seed distributed
Rice	PB-1509	800.50	846
	PB-1718	426.75	582
	Pusa Basmati-1637	577.00	7.06
	PR-126	655.75	483
Wheat	HD-2967	678.00	791
	HD-3226	67.25	215

	DBW-187	31.75	225
	PBW-752	11.50	31
	PBW-723	12.75	24
	HD-3086	44.00	32
	DBW-88	290.00	152
	WB-02	387.75	382
	DBW-90	78.00	62
	HD-3059	184.00	121
	HPBW-01	229.50	231
	DBW-173	210.75	220
Mustard	Pusa Mustard-31	224.00	668
Lentil	Pusa Masoor Ageti	91.90	296
Total		5001.15	5368.06



Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
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Production of Bio-Products : Nil

Production of livestock materials : Nil

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	50	50	20	--
Total	50	50	20	--

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Krishi Vigyan Kendra, Nagina (Bijnor)	01

IX. NEWSLETTER/MAGAZINE : Nil

X. Publications

Category	Number
Research Paper	06
Book/Book chapter	14
Training Manual	04
Extension bulletins/ Literature	33
Popular articles	01
Success Story/ Case Study	
Seminar papers (Abstract)	--
Technical reports	10
Workshop/ Conference/ Training Programme Attended/Conducted	14

(a) Research Paper

SN	Authors	Year	Title	Journal with volume, number & page number	NAAS Rating
1	K.K. Singh and D.P. Singh	2019	Evaluation of wheat varieties for timely sown condition in district Bijnor (Uttar Pradesh) with the special reference to the yield gap and their adoption in district.	Journal of Community Mobilization and Sustainable Development Vol. 14(3), 435-438, Sept.-Dec., 2019	5.30
2	Priya Awasthi, Subhash Chandra Singh and Desh Pal Singh	2019	Wood Apple : A Wonder under-exploited nutritionally and medicinally rich wild fruit of Bundelkhand Region	Progressive Research – An International Journal. Vol. 14 (Special) : 450-453	3.84
3	Desh Pal Singh, Satya Prakash, Vikas Kumar, Krishna Kumar Singh and Purna Sharma	2020	Socio-economic status of Guava growers in Bijnor district (UP)	International Research Journal of Pure and Applied Chemistry. Accepted in Special issue 2020	5.40
4	Desh Pal Singh, Satya Prakash, Vikas Malik, Krishna Kumar Singh, Narendra Singh, Shakuntala Gupta and Purna Sharma	2020	A study on socio- economic status of mango growers in Bijnor district of Western Uttar Pradesh	International Journal of Environment and Climate Change. 10(12): 13-19, 2020; Article no. IJECC 61933	5.29
5	Desh Pal Singh, Satya Prakash, Vikas Kumar, Krishna Kumar Singh and Purna Sharma	2020	Constraints faced by guava growers in adoption of guava production technology and suggestions for suitable extension strategies to overcome the problem in Bijnor district of UP	International Research Journal of Pure and Applied Chemistry. 21(22): 41-47, 2020; Article no. IRJPAC. 62230	5.40
6	Desh Pal Singh, Satya Prakash, Vikas Kumar, Krishna Kumar Singh and Purna Sharma	2020	Constraints faced by mango growers in adoption of mango production technology and suggestions for suitable extension strategies to overcome the problem in Bijnor district of UP.	International Journal of Current Microbiology and Applied Sciences. (Online ISSN 2319-7706). Special Issue -10 pp 605-611.	5.38

(b) Books

SN	Authors	Year	Title	Book/ Publisher's name and address	ISBN No
1	डा० देशपाल सिंह	2020	फलों की उच्च उत्पादन तकनीक	Shri Gyan Sagar Publications (India) ISO 9001:2015 Certified	ISBN: 978-81-936374-0-1
2	डा० विकास कुमार, डा० देशपाल सिंह, डा० सत्य प्रकाश	2020	सब्जियों की मुख्य प्रजातियाँ एवं बीज उत्पादन तकनीक	Shri Gyan Sagar Publications (India) ISO 9001:2015 Certified	ISBN: 978-81-936374-1-8

(c) Book Chapters

SN	Authors	Topic	Year	Publisher	ISBN No.
1	K K Singh and D P Singh	Improved and High Yielding wheat variety HD 2967 change the wheat production scenario in district Bijnor (UP)	2020	Cutting –Edge Research in Agricultural Sciences Vol. 5 Pp- 139-142 (International Book publisher, London, UK)	Print ISBN: 978-93-90516-76-6 eBook ISBN: 978-93-90516-77-3
2	K K Singh and D P Singh	Seed production methodology of wheat for better yield and secure income	2020	RECENT APPROACHES in Sustainable Agriculture Development and Food Security, Crop Management, Forestry, Food Technology	ISBN: 978-81-943375-4-6

				and Environmentally Balanced Production Enhancement. Pp.158-164 (Mahima Research Foundation & Social Welfare)	
3	डा० देशपाल सिंह एवं डा० सत्य प्रकाश	आम के बागों का रेखांकन एवं संस्थापना	2020	Shri Gyan Sagar Publications (India) ISO 9001:2015 Certified	
4	डा० देशपाल सिंह, डा० सत्य प्रकाश, डा० विकास कुमार, डा० के० के० सिंह, डा० शकुन्तला गुप्ता एवं प्रेरणा शर्मा	आम की उच्च उत्पादन तकनीक	2020	Shri Gyan Sagar Publications (India) ISO 9001:2015 Certified	
5	डा० देशपाल सिंह, डा० विकास कुमार, डा० सत्य प्रकाश, डा० के० के० सिंह एवं डा० शकुन्तला गुप्ता	अमरुद की व्यवसायिक खेती	2020	Shri Gyan Sagar Publications (India) ISO 9001:2015 Certified	
6	डा० देशपाल सिंह, डा० के० के० सिंह, डा० विकास कुमार एवं डा० शकुन्तला गुप्ता	लीची की उन्नत उत्पादन तकनीक	2020	Shri Gyan Sagar Publications (India) ISO 9001:2015 Certified	
7	डा० विकास कुमार, डा० देशपाल सिंह, डा० शकुन्तला गुप्ता, डा० सत्य प्रकाश, डा० के० के० सिंह एवं प्रेरणा शर्मा	केला उत्पादन के आधुनिक आयाम	2020	Shri Gyan Sagar Publications (India) ISO 9001:2015 Certified	
8	डा० सत्य प्रकाश, डा० देशपाल सिंह एवं डा० विकास कुमार	पपीता की वैज्ञानिक खेती	2020	Shri Gyan Sagar Publications (India) ISO 9001:2015 Certified	
9	डा० देशपाल सिंह, डा० सत्य प्रकाश, डा० विकास कुमार एवं डा० के० के० सिंह	नीबू वर्गीय फलों की उत्पादन तकनीकी	2020	Shri Gyan Sagar Publications (India) ISO 9001:2015 Certified	
10	डा० देशपाल सिंह, डा० विकास कुमार, डा० के० के० सिंह, डा० शकुन्तला गुप्ता, प्रेरणा शर्मा एवं डा० सत्य प्रकाश	आंवला का व्यवसायिक उत्पादन	2020	Shri Gyan Sagar Publications (India) ISO 9001:2015 Certified	
11	डा० देशपाल सिंह, डा० के० के० सिंह, डा० सत्य प्रकाश, डा० विकास कुमार, डा० शकुन्तला गुप्ता एवं प्रेरणा शर्मा	करौदा की उत्पादन तकनीक	2020	Shri Gyan Sagar Publications (India) ISO 9001:2015 Certified	
12	डा० देशपाल सिंह, डा० विकास कुमार एवं डा० सत्य प्रकाश	पुराने बागों का जीर्णोद्धार	2020	Shri Gyan Sagar Publications (India) ISO 9001:2015 Certified	

(d) Training Manuals

SN	Authors	Year	Title
1	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	बासमती धान की बीज उत्पादन तकनीकी एवं निर्यात योग्य गुणवत्तायुक्त उत्पादन
2	डा० नरेन्द्र सिंह	2020	गन्ना उत्पादन तकनीक
3	डा० शकुन्तला गुप्ता	2020	खेतिहर कृषक महिलाओं हेतु. श्रम भाक्ति बचाने वाले उपकरण
4	डा० शकुन्तला गुप्ता	2020	मौसम में खराब होने वाले फलों एवं सब्जियों का प्रसंस्करण

(e) Extension Bulletins/Literature

SN	Authors	Year	Title
1	डा० नरेन्द्र सिंह	2020	एफ. पी. ओ. (कृषक उत्पादन संगठन) का गठन (निर्माण) कैसे करें
2	डा० नरेन्द्र सिंह	2020	माइक्रोराइजा के फायदे
3	डा० शकुन्तला गुप्ता	2020	आय दुगुना करने हेतु आलू का प्रसंस्करण
4	डा० शकुन्तला गुप्ता	2020	खेती बाड़ी के कार्य का सरलीकरण
5	डा० शकुन्तला गुप्ता	2020	फलों एवं सब्जियों के मूल्यवर्धन से बढ़ाये आमदनी
6	डा० शकुन्तला गुप्ता	2020	वर्ष भर गृहवाटिका से आय अर्जन का स्रोत
7	डा० शकुन्तला गुप्ता	2020	ऑवला कैंडी व ऑवला लड्डू तैयार करना
8	डा० शकुन्तला गुप्ता	2020	अमचुर उत्पादन तकनीक
9	डा० नरेन्द्र सिंह	2020	फसल अवशेष प्रबन्धन क्यों व कैसे
10	डा० नरेन्द्र सिंह	2020	जून माह में किसान भाई क्या करें
11	डा० नरेन्द्र सिंह	2020	अक्टूबर माह के कृषि कार्य
12	डा० नरेन्द्र सिंह	2020	हैप्पी सीडर मशीन द्वारा गेहूँ की सीधी बुवाई
13	डा० शकुन्तला गुप्ता	2020	गृह वाटिका द्वारा पोषण सुरक्षा
14	डा० शकुन्तला गुप्ता	2020	भोजन बनाते समय ईंधन तथा पौष्टिकता को बचाना
15	डा० शकुन्तला गुप्ता	2020	गर्भवती महिलाओं में एनिमिया दूर करने के उपाय
16	डा० शकुन्तला गुप्ता	2020	आय में वृद्धि हेतु आलू प्रसंस्करण
17	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	दिसम्बर माह के कृषि कार्य
18	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	नवम्बर माह के कृषि कार्य
19	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	अक्टूबर माह के कृषि कार्य
20	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	आलू की बीज उत्पादन तकनीक
21	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	आलू की उन्नत उत्पादन तकनीक
22	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	सितम्बर माह के कृषि कार्य
23	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	अगस्त माह के कृषि कार्य
24	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	जुलाई माह के कृषि कार्य
25	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	जून माह के कृषि कार्य
26	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	धान का गुणवत्तायुक्त बीज उत्पादन
27	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	धान में प्रजातीय विविधीकरण
28	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	मई माह के कृषि कार्य
29	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	खरीफ फसलों में बीज उपचार का महत्व एवं तरीका
30	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	बासमती धान का गुणवत्तायुक्त उत्पादन
31	डा० के० के० सिंह एवं डा० डी० पी० सिंह	2020	अप्रैल माह के कृषि कार्य

(f) Popular articles

SN	Authors	Year	Title	Journal with volume, number & page number
1	डा० शकुन्तला गुप्ता	2020	भोजन बनाते समय पोषक तत्वों को बचाने के उपाय	मध्य भारत कृषक भारती MPHIN/2006/16946 page no 51

Radio Talk / TV talks

SN	Subject	Recording Date	Telecast Date	Place
Radio Talk				
1	गर्मियों में मधुमक्खियों की कैसे बचायें।	08.04.2020	08.04.2020	आकाशवाणी, नजीबाबाद
2	फसल कटाई एवं भंडारण करते समय किसान भाई कोविड-19 से बचाव कैसे करें (Phone Recording)	23.04.2020	24.04.2020	आकाशवाणी, नजीबाबाद
3	देर से बोये जाने वाले गन्ने की बुवाई एवं कोविड-19 से बचाव हेतु सावधानियां (Phone Recording)	24.06.2020	24.06.2020	आकाशवाणी, नजीबाबाद
4	धान की रोपाई करते समय ध्यान रखने योग्य बिन्दु (Phone Recording)	18.07.2020	25.07.2020	आकाशवाणी, नजीबाबाद
TV Talk				
5	फसल अवशेष प्रबंधन क्यों और कैसे करें	21.10.2020	23.10.2020	Prime News

Webinar/Workshop/ Conference/ Training Programme Organized

SN	Seminar	Topic of Paper	Place	Duration	Organized By
1	Organize a workshop on Production of Export Quality Basmati Rice	Challenges and Solution of Production of Export Quality Basmati Rice	Zoom App	15.07.2020	Joint Collaboration with BEDF & KVK Dr. Narendra Singh
2	05 days online Workshop cum Training	Quality seed production & production technology of Exportable Basmati rice	Zoom App	21-25.07.2020	KVK, Bijnor Dr. K.K.Singh
3	Organize a workshop on Production of Export Quality Basmati Rice	Management of Insect, disease, water, harvesting, storage of Export Quality Basmati Rice	Zoom App	24.09.2020	Joint Collaboration with BEDF & KVK Dr. Narendra Singh
4	Webinar on Crop residue management	Crop residue management	Zoom app	24.9.2020, 11-2.0 pm	Jointly organized by Patanajli, Bharat Jaivic utpad vikas Parishad, BEDF & KVK

Two Webinar's Organized on Production Technology of Exportable Basmati Rice

Date – 15.07.2020, Participant-100



Date – 24.09.2020, Participant-80



को वी के नगीना एवं बी ई डी एफ मेरठ के संयुक्त तत्त्वधान में वेबीनार

जूम एप पर

दिनांक 15 जुलाई 2020

समय 12 बजे दोपहर

किसान भाई रजिस्ट्रेशन के लिए नीचे दिए काटसाप नम्बर पर अपना विवरण लिखकर दिनांक 14 जुलाई 2020 की दोपहर तक अवश्य भेज दें।

9457168051

नोट : मीटिंग की आई डी एवं पासवर्ड आपको बाद में भेजा जाएगा।

कृषि विज्ञान केन्द्र

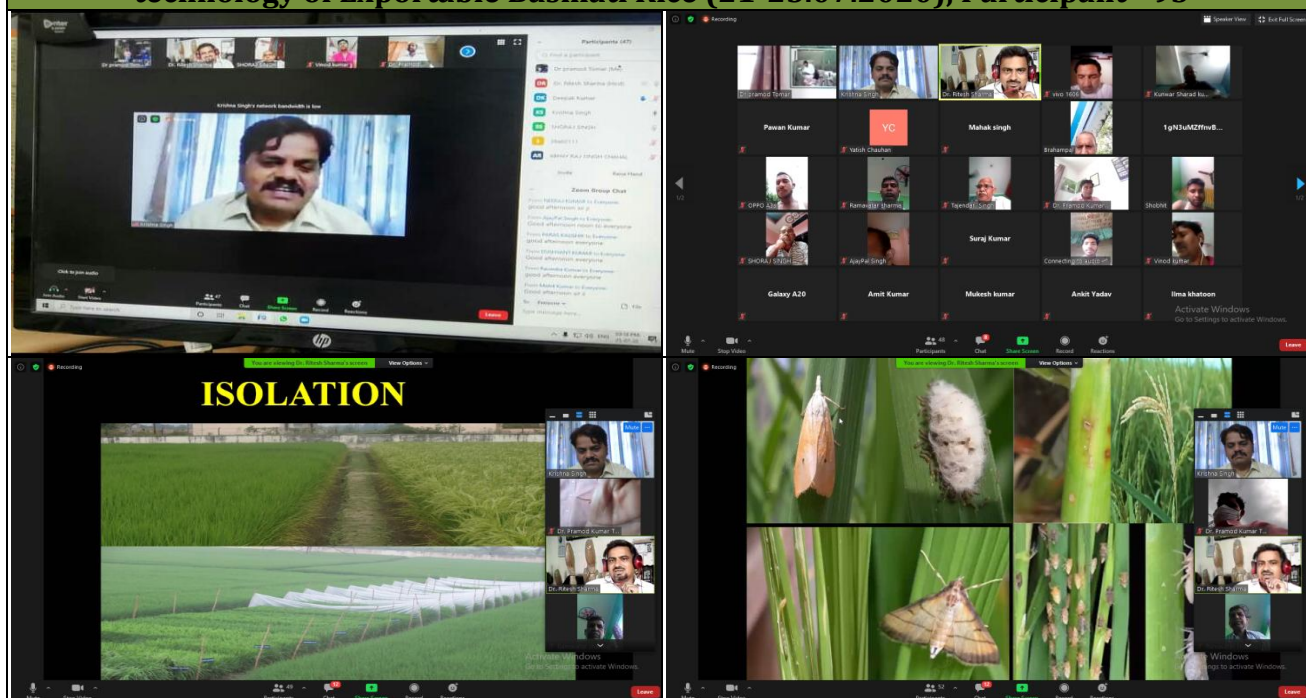
नगीना बिजनौर उत्तर प्रदेश
(संयुक्त तत्त्वधान में को वी के नगीना एवं बी ई डी एफ मेरठ उत्तर प्रदेश)

विषय : निर्यात योग्य बासमती धान उत्पादन

डॉ. एस. एस. सिंग	डॉ. एस. एस. सिंग	डॉ. एस. एस. सिंग	डॉ. एस. एस. सिंग
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नियंत्रक प्रसार	नियंत्रक प्रसार	नियंत्रक प्रसार	नियंत्रक प्रसार
आयोग	आयोग	आयोग	आयोग



05 days online Workshop cum Training on Quality seed production & production technology of Exportable Basmati Rice (21-25.07.2020), Participant - 93



Webinar/Workshop/ Conference/ Training Programme Attended

SN	Persons	Topic	Duration	Organizer	Place
1	Dr. Shakuntala Gupta	National webinar on Role of teacher as a mentor during Covid-19 pandemic	University of lucknow	11-12 May 2020	University of lucknow
2	Dr. Shakuntala Gupta	National webinar on Food and Nutrition in the present scenario of Covid-19	Vasant kanya Mahavidhyala, BHU, VARANASI	13-14 May 2020	Dept. of Home Science , BHU
3	Dr. Shakuntala Gupta	National webinar on Economic cries and its redressal during pandemic	Bhakarachavya college, DU	15 May 2020	Delhi university
4	Dr. Shakuntala Gupta	National webinar on upcoming economic marketing challenges for india post Covid-19 lockdown.	SHUATS, Allahabad	19-20 May 2020	SHUATS, Allahabad
5	Dr. Shakuntala Gupta	National webinar on Gender sensitization : need of Hour	Inst. of Home science DR. B.R. ambedkar university Agra	26 May 2020	DR.B.R. ambedkar university agra
6	Dr. Narendra Singh	CFLD & CRM Review meeting , Kanpur	02 days	28-29.1.2020	ATARI, Kanpur
7	Dr. Narendra Singh	Webinar on “Mansoon 2020 prediction and strategies for agriculture and allied sector in the context of COVID-19”	01 day	14 th June 2020	UPCAR, Lucknow
8	Dr. Narendra Singh	Webinar on Centre Pivot Irrigation System of Sprinkler in Indian Contest	online Zoom app	27.11.2020 (3.0 PM)	NCPAH (Dr.P.K. Singh, IDE,)
9	Dr. Narendra Singh	University foundation day Celebration of foundation day	Zoom app	02.10.2020	SVPuat, Meerut
10	Dr. Narendra Singh	On line meeting with AM, GOI New agriculture bills	Wevex	03.10.2020	ICAR

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

Activities conducted				
No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)
25	--	--	3500	42

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

: Nil

XIII. DETAILS ON HRD ACTIVITIES

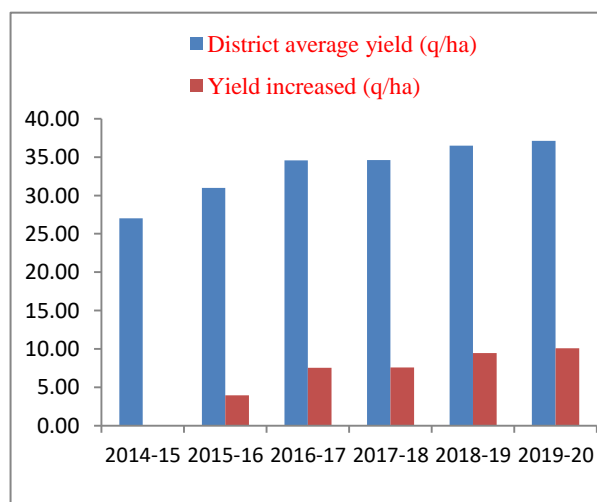
: Nil

XIV. CASE STUDIES/SUCCESS STORY :

CASE STUDIES

1. Varietal Diversification of Wheat change the productivity of district average yield



Demonstrated Varieties	Year	District average yield (q/ha)	Yield increased (q/ha)
DBW-187	2014-15	27.03	--
PBW-723	2015-16	31.00	3.97
WB-02	2016-17	34.57	7.54
HPBW-01	2017-18	34.60	7.57
HD-2967	2018-19	36.50	9.47
HD-3086	2019-20	37.10	10.07
WH-1105			
HD-3059			
DBW-88			
DBW-90			



Initiatives by the KVK for the popularization of Varietal Diversification of Wheat

Programme	No.	Participant
OFT & FLD conducted	251	251
Capacity Building	For Farmers	20
	For Extension Personals	12
Literature Developed & distributed	Extension Literature	10
	Training Mannual	02
	Buletin	04



Electronic & Print Media	TV	05	--	
	Radio	10	--	
	News Paper	95	--	
Field day		15	1450	
Lecture Delivered		70	65,000	

2. Basmati Rice for Higher Economic Gain in District Bijnor (U.P):

The area under paddy is about 55,000 ha in district Bijnor, out of that 35,000 ha is under scented rice. Commonly grown scented rice varieties Pusa Basmati – 1, Pusa Basmati-1121 and Sarbati (Local, non identified and having 40% area in scented rice). The KVK, Bijnor demonstrated newly released high yielding basmati rice varieties for getting extra income from in comparison to other varieties. The successful farmer is Sri Brahmpal Singh, Village- Agari, Block-Haldaur, District- Bijnor. Presently More than 150 farmers are growing the high yielding newly Basmati Rice varieties (Pusa Basmati-1509, Pusa Basmati-1637 and Pusa Basmati-1718) for marketing in form of rice instead of paddy.

Initiatives by the KVK for popularization of the technology

Technology	Programme conducted from 2014 to till date				Lecture delivered
	Training	OFT	FLD	Extension activities	
Pusa Basmati-1509	8 (with 160 participants)	---	90 FLD Organized at farmer's field.	07 Field day programme organized with 1250farmers	75 (with 28550 participants)
Pusa Basmati-1637	04 (with 80 participants)	01 (with 05 farmers)	30 FLD Organized at farmer's field.	02 Field day programme organized with 140farmers	35 (with 10500 participants)
Pusa Basmati-1718	03 (with 60 participants)	01 (with 05 farmers)	30 FLD Organized at farmer's field.	02 Field day programme organized with 110 farmers	35 (with 10500 participants)

Economics of Basmati Rice

Varieties	Grain Yield (qt/ha)	Cost of cultivation (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	BCR	% of Yield over local check (qt/ha)	Additional Net Return (Rs/ha)	Technol-ogical Expansion (ha)
Pusa Basmati-1509	54.50	43000.00	175500.00	132500.00	4.08	26.74	59000.00	7800

Pusa Basmati-1637	57.50	43428.00	193060.00	149632.00	4.44	33.72	76132.00	3550
Pusa Basmati-1718	52.50	43870.00	180850.00	136980.00	4.12	22.09	63480.00	3200
Sarbati (Local non identified variety)	43.00	42500.00	116000.00	73500.00	2.72	--	--	--



3. Bio-fortified Varieties of crops for nutritional security and getting extra income:

Malnutrition has emerged as one of the most serious health issues worldwide. The consumption of unbalanced diet poor in nutritional quality causes malnutrition. Deficiency of proteins, essential amino acids, vitamins and minerals leads to poor health and increased susceptibility to various diseases, which in turn lead to significant loss in farm family income and affect the socio-economic structure. The newly developed biofortified crop varieties besides serving as an important source for livelihood to poor people assume great significance in nutritional security and gaining extra income.

The KVK, Bijnor demonstrated newly released Biofortified varieties (Wheat- WB-02 & HPBW-01, Mustard: Pusa Double Zero Mustard-31, Lentil: L-4717) from for getting extra income with nutritional security in comparison to other varieties.

Initiatives by the KVK for popularization of the technology

Crop	Variety	Nutrient enriched	Programme conducted from 2017 to till date				Lecture delivered
			Training	OFT	FLD	Extension activates	
Wheat	WB-02	Rich in zinc 42.0 ppm) and iron (40.0 ppm) in comparison to 32.0 ppm zinc and 28.0 ppm iron in other varieties.	06 (with 120 participants)	01 (with 05 farmers)	40 FLD Organized at farmer's field.	05 Field day programme organized with 272 farmers	35 (with 22500 participants)

	HPBW-01	Rich in zinc 40.6 ppm) and iron (40.0 ppm) in comparison to 32.0 ppm zinc and 28.0 ppm iron in other varieties.	04 (with 80 participants)	01 (with 05 farmers)	15 FLD Organized at farmer's field.	02 Field day programme organized with 75 farmers	35 (with 22500 participants))
Mustard	Pusa Double Zero Mustard-31	Low erucic acid (<2.0%) in oil and glucosinolates (<30 ppm) in seed meal as compared to >40.0% erucic acid and >120 ppm glucosin-olates in popular varieties.	04 (with 80 participants)	---	72 FLD Organized at farmer's field.	05 Field day programme organized with 210 farmers	35 (with 22500 participants)
Lentil	Pusa Masoor Ageti (L-4717)	Contains 65.0 ppm iron as compared to 55.0 ppm iron in popular varieties.	03 (with 60 participants)	---	30 FLD Organized at farmer's field.	02 Field day programme organized with 80 farmers	35 (with 22500 participants)

Economics of the Bio fortified varieties

Demonstrated Technologies	Old Technologies	Productivity/Yield of the Crop (q/ha.)		Increase in Additional Net Return (Rs./ha)	Expansion area (ha.)
		Old Tech.	Assessed Tech.		
Wheat (WB-02)	DBW-17	44.90	53.30	26,112.00	3500
Wheat (HPBW-01)	DBW-17	44.90	52.50	25,550.00	3000
Mustard (PM-31)	PYS-01	11.37	17.33	7460.00	580
Lentil (L-4717)	NL-1	9.03	14.86	28869.00	210



4. Pusa Basmati-1509 is Big way for District

The area under Paddy is about 55,000 ha in Bijnor district, out of that 35,000 ha is under scented rice. Commonly grown rice varieties are Pusa B-1, Pusa-1121 and Sharbati (Locally grown non released variety). Pusa Basmati -1509 variety was released in 2013 and was demonstrated by KVK during 2014 at 15 farmer's field. The average yield at farmers field was recorded 56.83 q/ha with the cost of cultivation of Rs. 32,473/-. The average net profit per ha was recorded Rs. 1, 17,200/- . The variety PB-1509 found to be suitable for Rice- Autumn Sugarcane system due short duration maturity (seed to seed 115-120 days). Due to short duration, high yield and low cost of cultivation the area under this variety has now spread to more than 7500 ha in just four years.

Year	Yield (q/ha)	Area Coverage (ha)		
2014	56.83	Starting Year		
2015	51.90	2,900		
2016	54.10	5,500		
2017	52.88	7,200		
2018	52.80	7,500		
2019	54.50	7,800		
Initiatives by the KVK for the popularization of Pusa Basmati 1509				
Programme		No.	Participant	
OFT &FLD conducted		115	115	
Capacity Building	For Farmers	12	240	
	For Extension Personals	06	60	
Literature Developed & distributed	Extension Literature	07	4000 copy	<div><p>१. जासमती धान प्रसारण (डिप्लोम) : धान की गुणवत्ता बढ़ाने के लिए जासमती धान प्रसारण के लिए जासमती धान की नवीन प्रजाति का प्रदर्शन।</p><p>२. जासमती धान की नवीन प्रजाति का प्रदर्शन।</p><p>३. जासमती धान की नवीन प्रजाति का प्रदर्शन।</p><p>४. जासमती धान की नवीन प्रजाति का प्रदर्शन।</p><p>५. जासमती धान की नवीन प्रजाति का प्रदर्शन।</p><p>६. जासमती धान की नवीन प्रजाति का प्रदर्शन।</p><p>७. जासमती धान की नवीन प्रजाति का प्रदर्शन।</p></div> <div><p>बासमती धान का सहभागी गुणवत्ताबुद्धि बीज प्रयोग</p><p>कृषि विज्ञान केंद्र, नगीना (विजनीर)</p></div>
	Training Mannual	02	100	
	Buletin	02	1000	
	Popular Articles	02	--	
Electronic & Print Media	TV	02	--	
	Radio	02	--	
	News Paper	22	--	
Field day		10	815	
Lecture Delivered		51	27,500	

5. Wheat variety HD-2967 is Big way for District

The area under wheat is about 1, 40,000 ha in Bijnor district commonly grown wheat varieties PBW-343, PBW-550, HD-2851 and HD-2894. HD-2967 variety was released in 2011 and was demonstrated by KVK during Rabi 2014-15 at 40 farmer's field. The average yield at farmers field was recorded 48.83 q/ha (yield decrease due to heavy rainfall against potential yield). During 2015-16 the variety gave average yield 54.25 q/ha with the cost of cultivation of Rs. 43750/-. The average net profit per ha was recorded Rs. 83356.00/- . Due to disease free, high yield and give better yield in adverse condition the area under this variety has now spread to more than 65000 ha in just four years and fully replace Var.PBW-343 from district.

Year	Yield (q/ha)	Area Coverage (ha)
2014-15	48.83	Starting year
2015-16	54.25	18500
2016-17	56.45	28500
2017-18	55.00	42000
2018-19	54.35	55,000
2019-20	--	65,000
2020-21	---	79,000



Initiatives by the KVK for the popularization of HD-2967

Programme		No.	Participant
OFT & FLD conducted		50	50
Capacity Building	For Farmers	10	300
	For Extension Personals	05	50
Literature Developed & distributed	Extension Literature	05	6000 copy
	Training Manual	02	100
	Buletin	03	100
	Popular Articles	01	-
Electronic & Print Media	TV	05	-
	Radio	03	-
	News Paper	30	-
Field day		05	425
Lecture Delivered		52	15,534

6. Outcome against Participatory Seed Production (2014-2020)

Outcome against Participatory Seed Production (2014-2020)							
Crop	Variety	Seed Produced (q)	Seed distributed Farmers to Farmers	No. of Village Covered	Additional net income per year (Rs)		
Paddy	PB-1509	5456.50	4502	1890	1,88,000.00		
	PB-1637	572.00	636	550			
	PB1718	554.25	698	565			
	PR-123	320.00	201	432			
	PR-126	1016.75	718	735			
	NDR-3112	205.00	158	55			
Wheat	HD-2967	6299.5	4370	3800	1,70,000.00		
	HD-3086	872.35	439	950			
	WH-1105	186.75	121	330			
	DBW-88	1405.75	974	1200			
	DBW-90	587.12	497	540			
	WB0-02	820.66	1008	1100			
	HPBW-01	75.00	118	55			
	HD-3226	67.25	215	32			
	DBW-187	31.75	225	110			
	PBW-723	12.75	24	18			
	PBW-752	11.50	31	12			
	HD-3059	1398.30	1143	1400			
	DBW-173	308.75	348	630			
Seed Replacement Rate (%) of Wheat and Paddy in Adopted Villages							
Year	Harganpur	Patpura	Rampur	Nansiwala	Athai Aheer	Kalakheri	Kokapur
Paddy							
2014	4.50	5.00	6.00	6.50	3.00	5.50	8.00
2015	27.00	16.00	26.50	19.50	19.50	18.50	29.50
2016	37.00	36.00	34.00	37.50	32.50	27.50	42.50
2017	52.50	45.50	48.00	46.00	42.00	39.00	47.00
2018	58.50	52.00	53.00	51.00	48.00	47.00	51.00
2019	61.00	55.50	57.00	55.00	54.00	52.00	56.00
2020	68.00	62.00	61.00	60.00	63.00	60.00	62.00
Wheat							
2014	8.50	9.50	9.00	8.50	6.00	5.00	7.50
2015	27.50	21.00	25.00	18.00	22.50	55.00	19.00
2016	42.00	38.50	42.00	38.50	38.00	32.00	37.50
2017	65.50	60.50	55.00	52.00	53.00	48.00	47.00
2018	69.00	63.50	60.00	59.00	58.00	56.00	55.00
2019	72.00	65.00	64.00	63.00	65.00	61.00	60.00
2020	76.00	70.00	72.00	70.00	75.00	65.00	66.00

Impact of quality seed production on Average additional yield (qt/ha) increased in Adopted villages							
Paddy							
2014	8.00	5.00	6.50	5.00	4.00	8.00	5.00
2015	14.50	12.00	14.00	13.00	13.50	14.50	15.00
2016	19.00	17.00	15.50	20.00	15.50	18.00	21.00
2017	25.00	22.00	24.50	28.00	21.50	25.00	28.00
2018	27.00	24.00	25.50	29.00	23.00	26.00	29.00
2019	30.00	25.00	27.00	30.00	25.00	27.00	30.00
2020	30.00	26.00	27.00	30.00	27.00	28.00	30.00
Wheat							
2014	5.50	4.5	3.00	4.00	2.50	2.50	5.50
2015	9.40	8.00	7.50	8.50	6.50	5.40	8.00
2016	12.00	12.00	11.50	13.00	12.50	8.00	13.00
2017	18.50	17.50	15.00	16.00	15.50	12.50	16.50
2018	20.00	18.00	17.00	17.00	16.00	14.00	17.00
2019	21.00	19.00	18.00	18.00	17.00	16.00	19.00
2020	--	----	----	---	---	--	--

Impact of seed production in adopted villages

- Seed replacement rate 68-76% increased in paddy and wheat.
- Production and productivity increased 21-30% in wheat and paddy
- Cost of cultivation reduced because of use of quality seed of recommended varieties.
- Seed grower get additional net return Rs 1,10,000/- to 1,28,000/- from wheat and paddy



7. Trench Method in Sugarcane big way for district

It is well known that the sugarcane is the major crop of district Bijnor and its cover 2,21,000 ha area in district. The production and productivity was very low in comparison to National average yield (before 2010) due to traditional planting method and delayed sowing. Keeping in mind that facts, KVK introduce new planting techniques i.e Trench Method & September sowing in 2010-11. The average yield gradually

increased from 2010-11 to 2019-20 and average yield in demonstrated field was recorded 1415q/ha, the enhancement in productivity due to adoption of Trench method and September sowing and farmers got highest yield. Presently the area covered under Trench method is 65,000 ha in district Bijnor.

Year	District average yield (q/ha)	Yield increased per Year (q/ha)
2012-13	584.72	0
2013-14	599.32	14.60
2014-15	657.44	72.72
2015-16	686.56	101.84
2016-17	784.97	200.25
2017-18	833.96	249.24
2018-19	859.52	274.80

District average yield (q/ha)

Yield increased per Year (q/ha)

Year	District average yield (q/ha)	Yield increased per Year (q/ha)
2012-13	584.72	0
2013-14	599.32	14.6
2014-15	657.44	72.72
2015-16	686.56	101.84
2016-17	784.97	200.25
2017-18	833.96	249.24
2018-19	859.52	274.8

Initiatives by the KVK for the popularization of Trench Method in Sugarcane






Programme	No.	Participant	
OFT & FLD conducted	140	140	
Capacity Building	For Farmers	20	400
	For Extension Personals	20	200
Literature Developed & distributed	Extension Literature	06	10000 copy
	Training Manual	02	200
	Buletin	04	500
	Popular Articles	01	-
Electronic & Print Media	TV	02	-
	Radio	05	-
	News Paper	20	-
Field day	20	880	
Lecture Delivered	250	55000	

मन्त्रालय कैबिनेट

दश विधि में अनामिका नन्ने (नन्ने व मोटे कोर) के विकास के अलावा अधिकतर में अनामिका नन्ने के अनामिका नन्ने के (नन्ने) अनामिका नन्ने के अनामिका नन्ने


8. Sugarcane + Mustard Intercropping big way for district

Technology (Sugarcane + Mustard) Intercropping is developed by the G.B.Pant University of Agriculture and Technology, Pantnagar. Due to lack proper technological guidance among the sugarcane growers they do not motivated success of intercropping, Scientist of KVK Bijnor continuously focused on farmers profitability, nutritional security and resource optimization.

Year	Yield (q/ha)	Area under Intercropping		
2015-16	Sugarcane - 1123.75, Mustard -11.50	Starting Year		
2016-17	---	850		
2017-18	--	3800		
2018-19	--	7500		
2019-20	--	12000		
2020-21	--	15000		
Initiatives by the KVK for the popularization of Sugarcane + Mustard Intercrop				
Programme		No.	Participant	
OFT & FLD conducted		120	120	
Capacity Building	For Farmers	15	300	
	For Extension Personals	10	100	
Literature Developed & distributed	Extension Literature	03	4500 copy	
	Training Mannual	--	--	
	Buletin	02	200	
	Popular Articles	01	-	
Electronic & Print Media	TV	02	-	 
	Radio	10	-	
	News Paper	10	-	
Field day		08	310	
Lecture Delivered		45	28000	

9. Sugarcane + Potato Intercropping big way for district

Technology (Sugarcane + Potato) Intercropping is developed by the G.B.Pant University of Agriculture and Technology, Pantnagar. Due to lack proper technological guidance among the sugarcane growers they do not motivated success of intercropping, Scientist of KVK Bijnor continuously focused on farmer's profitability, nutritional security and resource optimization. During last 5 years about 300 ha area comes under Sugarcane + potato intercropping system and farmer received Rs 2,89,000/ha as extra income.

Year	Yield (q/ha)	Area under Intercropping	
2015-16	Sugarcane - 1123.75, Potato -150	Starting Year	
2016-17	---	25	
2017-18	--	75	
2018-19	--	200	
2019-20	--	300	
Initiatives by the KVK for the popularization of Sugarcane + Potato Intercrop			
Programme		No.	Participant
OFT & FLD conducted		120	120
Capacity Building	For Farmers	15	300
	For Extension Personals	10	100
Literature Developed & distributed	Extension Literature	03	4500 copy
	Training Mannual	--	--
	Buletin	02	200
	Popular Articles	01	-
Electronic & Print Media	TV	02	-
	Radio	10	-
	News Paper	10	-
			

Field day	08	310	
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SUCCESS STORY

1. Bio-fortified Lentil Variety Pusa Masoor Ageti: A successful cultivation

Introduction	:	Technology (Variety) Pusa Masoor Ageti is developed by the IARI, New Delhi released during 2017. The variety Pusa Masoor Ageti contains 65.00 ppm iron as compare to 55.00 ppm iron in popular varieties.
KVK intervention	:	The area under Mustard is about 3000 ha in district Bijnor. Commonly grown Mustard varieties are PL-8, NL-1 and other old varieties. Variety Pusa Masoor Ageti was introduced and demonstrated by KVK Bijnor during Rabi-2018-19 & 2019-20 at 20 farmer's field through FLD.
Output	:	The average yield at Farmers field was 13.62 qt per ha (16.25 qt. maximum yield per ha.) with cost of cultivation of Rs. 32280.00 per ha. The average net profit per ha was recorded Rs. 38285.00 per ha.
Outcome	:	This technology may be capable for increasing extra net return of farmers due higher yield, short duration nature of crop (105 days) and better quality comparison to other varieties.
Impact	:	The area under this variety has now spread to more than 65 ha in just one year. Farmers are all satisfied with the yield of this variety and also claim that it is better in quality. The successful farmer is Sri Aarush Gahlot Village – Rajupura Manju, Block – Kotwali, District- Bijnor.



2. Bio Fortified Wheat Variety DBW-173: A Successful cultivation

Name of KVK	:	Krishi Vigyan Kendra, Nagina (Bijnor)
Introduction	:	Technology (Variety) DBW-173 is developed by the IIWBR, Karnal released during 2018. The variety DBW-173 rich in iron (40.70 ppm) and protein (12.50%) in comparison to 28.00 ppm iron 8-10 % protein in other wheat varieties.
KVK intervention	:	The area under Wheat is about 1,45,000 ha in district Bijnor, out of that about 80,000 ha area is Late sown condition. Commonly grown timely sown wheat varieties are HD-3059, DBW-16, and PBW-226. Variety DBW-173 was introduced and demonstrated by KVK Bijnor during Rabi-2018-19, 2019-2020 and 2021 at 35 farmer's field through OFT & FLD.
Output	:	The average yield at Farmers field was 47.62 qt per ha (55.00 qt. maximum yield per ha.) with cost of cultivation of Rs. 46780.00 per ha. The average net profit per ha was recorded Rs. 71585.63 per ha. Maturing with 120-122 day crop duration, bold grained variety resistant against yellow rust and leaf blight.
Outcome	:	This technology may be capable for increasing extra net return of farmers due

		higher yield and higher enrichment with zinc and iron that resulted chapatti is making better quality comparison to other varieties.
Impact	:	The area under this variety has now spread to more than 3200 ha in just two year. Farmers are all satisfied with the yield of this variety and also claim that it is better for chapatti making. The successful farmer is Sri Ajay Kumar Village – Bagwada, Block – Noorpur, District- Bijnor.
		

3. Kitchen gardening for nutritional security and supplements house hold income

D. Kitchen gardening for nutritional security and supplement house hold income						
Introduction	:	Kitchen garden is easy way to meet balanced dietary requirements of rural house. Vegetables are selected considering the prevailing food habits and climatic conditions of the areas, and with the larger goal of ensuring availability of wholesome and nutritious food. In 2019 Rabi, Krishi Vigyan Kendra, Nagina - conducted Front Line Demonstration on Kitchen Garden. In these demonstrations, seeds were distributed to farm women. Smt. Seema Singh, a resident of Burapur village block Kotwali, Nagina (Bijnor) a progressive woman initiated kitchen gardening. This initiative helped her to ensure food security and also in improving the nutritional status of her family. Regular intake of nutrient rich vegetables like pea, onion spinach, sugar beet, turnip, radish, carrot, fenugreek and coriander improved nutritional status of family.				
KVK intervention	:	Krishi Vigyan Kendra, Nagina promotes kitchen garden (100 sqm2) with an aim to improve nutrition security and to supplement house hold income. KVK also motivates farm women through training and demonstrations to adopt Kitchen Garden.				
Output	:					
Particulars		Yield (kg/100m2)	Gross Cost (Rs./ 100m2)	Gross Return (Rs./ 100m2)	Net Return (Rs./Unit)	B:C Ratio
Demonstration		105	598	1680	1082	1.80
Local Check		78	560	1248	688	1.22
Outcome	:	Krishi Vigyan Kendra, Nagina distributed hybrid vegetable seeds to 20 families. The vegetables in the kitchen garden harvested for throughout the season which save per day expenditure on vegetables. This ultimately led to a saving for family with availability of fresh vegetable. Good quality seed with diversity of vegetables improves nutritional security of farm women and her family.				
Impact	:	Economically Kitchen gardens help to increase household income, otherwise significant portion of the family income spent in purchase of vegetables. Social Benefits of Kitchen gardens include direct contribution to household food security by increasing availability, accessibility, and utilization. Kitchen gardening also help in utilization of available land resource in more productive way.				



Impact of evaluated, demonstrated and introduced technologies in district Bijnor (U.P.)
(A) Crop Production Technology

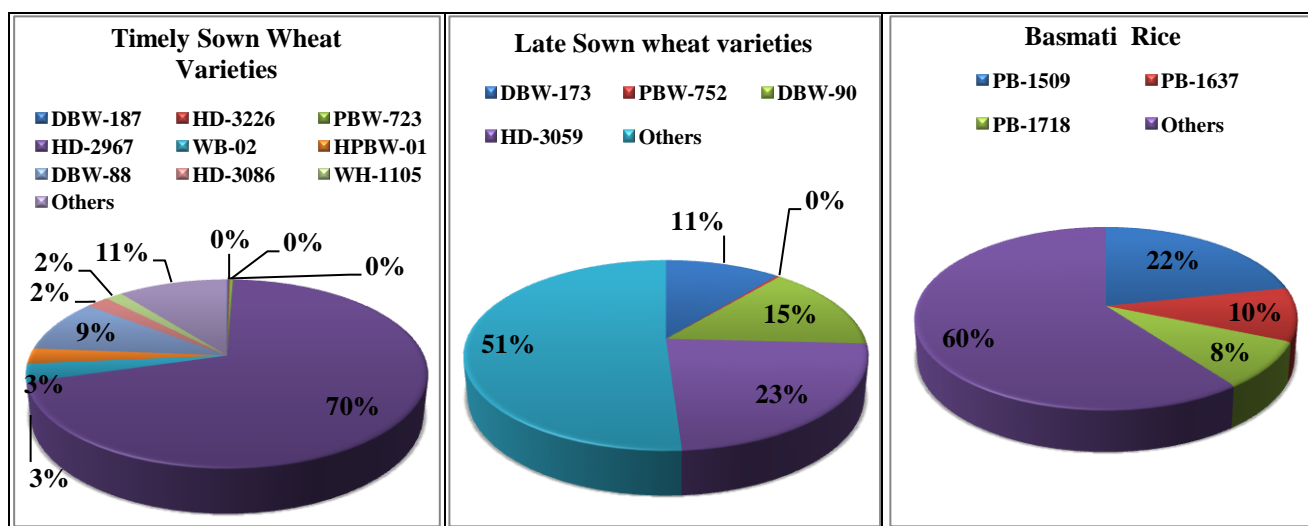
Crop	Technology	Introduction Year	Demo. yield (q/ha)	Check. yield q/ha)	Technological Gap (q/ha)	Additional net profit (Rs./ha)	Area Covered by Tech. (ha)
Sugarcane	Nutrient Management	2009	750	625	125	25175.00	100000
	Atrazine @ 2.0 kg and 2, 4-D @ 1.0 l/ha	2009	685	600	85	19745.00	25000
	ZnSo4 and FeSo4 (25 and 20 kg/ha)	2010	713	567	146.00	29409.00	50000
	Trench method of sugarcane sowing	2010	1487.5	1081.25	406.25	138962.00	65000
	Halosulfuron methyl 75% WG @ 90gm / ha	2017	980.00	937.50	42.5	17475.00	500
	Drip irrigation and fertigation	2018	1352.00	1120.00	232.00	63400.00	100
	Sugarcane + French Bean	2010	1458.68	1012.50	446.00	-	150
	Sugarcane + Bottle gourd	2010	777	600	177	10000.00	500
	Sugarcane + Okra (Bhindi)	2010	853	600	253	28000.00	1000
	Sugarcane + Cucumber	2010	962	600	362	55000.00	800
	Sugarcane + Mustard intercropping	2015	1272.31	1127.50	144.81	29771.00	15000
	Sugarcane + Lentil intercropping	2015	1252.50	1127.50	125	27067.00	100
	Sugarcane + potato intercropping	2015	2182.88	1127.50	1055.38	289399.00	300
	Nursery plantation under late sown condition	2017	1476.25	1036.25	440	139600.00	200
	Use of Ratoon manager	2018	1095	902.50	192.50	55825.00	50
Wheat	Balance fertilization in wheat	2011	43.50	37.00	6.50	-	1500
	Sulfosulfuron + Carfentrazne (33 + 25 gm)	2010	53.20	43.50	9.70	12044.00	5000
	Salfosulfuron 75% + Metsulfuron 5% (Ready mix) @ 40 gm / ha	2015	52.75	44.5	8.25	14980.00	25000
	Mesosulfuron methyl 3 % + Idosulfuron methyl 0.6 % (Ready mix) @ 400	2015	51.25	43.50	7.72	12558.00	5000
	Clodinafop 15% WP + Metsulfuron methyl 20% WP	2015	51.50	43.13	8.37	18462.00	45000

Rice	Balanced fertilization in hybrid rice	2009	73.72	63.92	9.80	10180.00	15000
	Pretilachlor @ 1.5 l/ha	2009	61.6	50.9	10.70	9465.00	4200
	Bensulfuron methyl 0.6 % Pretilachlor6% @ 10 kg /ha	2010	68.00	55.0	13.00	17500.00	2000
	Oxadigryl 80% W.P @ 112.5 gm /ha	2015	58.2	44.40	13.8	15469.00	10000
	Bispyribac Sodium 10% SC @250 ml /ha	2011	60.75	50.13	10.62	18257.00	20000
Mustard	Variety YSH-0401	2017	13.08	11.24	1.84	6552.00	20000
	Sulphur @ 40 kg/ha and Boron @ 1.5 kg/ha	2015	13.98	11.54	2.44	6658.00	20000
	Recommended dose of Sulphur	2010	12.63	11.25	1.38	4970.00	25000
Urd	ICM	2016	11.66	9.18	2.48	11932.00	2000
Lentil	ICM	2016	10.39	8.07	2.32	4206.00	200

- Incase of intercropping yield will be given in the form of CEY

(B) Varietal diversification in crops:

Crop	Current Technology	Introduction Year	Potential of Current Tech. (q/ha)	Demo. yield of current technology (q/ha)	Net Return (Rs/ha)	Technological Gap (q/ha)	Area Covered by Tech. (ha)
Wheat	DBW-187	2019	96.66	71.00	119825.00	25.66	165
	HD-3226	2019	79.60	57.00	91125.00	22.60	130
	PBW-723	2019	63.20	51.00	76975.00	12.62	350
	HD-2967	2014	66.10	54.25	89372.50	11.85	79000
	WB-02	2017	58.80	53.87	84354.74	4.93	3500
	HPBW-01	2017	64.80	52.50	81240.00	12.30	3000
	DBW-88	2016	69.90	54.00	86900.00	15.90	10450
	HD-3086	2016	71.10	51.50	84275.00	19.60	2500
	WH-1105	2015	71.60	53.37	87734.50	18.23	1850
	DBW-173	2017	57.00	46.62	72500.00	10.38	3200
	PBW-752	2019	60.00	46.00	67983.00	14.00	80
	DBW-90	2016	66.60	46.59	72191.50	20.01	4300
	HD-3059	2014	59.40	47.75	74337.50	11.65	6800
Rice	PB-1509	2014	60.00	54.50	145500.00	5.50	7200
	PB-1637	2018	65.00	57.50	155632.00	7.50	3150
	PB-1718	2019	60.00	52.50	138480.00	7.50	2800
Mustard	Pusa Mustard-31	2018	23.00	17.33	57366.67	5.67	580
Lentil	Pusa Masoor Ageti (L-4717)	2018	20.00	14.86	38528.00	5.14	210



Entrepreneurship development

(i) Entrepreneurs Developed through Participatory Seed Production

A progressive farmer Sharad Kumar Singh, attended training Programmes at Krishi Vigyan Kendra Bijnor during 2014 and learnt the skill of growing quality Seed Production technique. Due to high demand of seeds newly released wheat and paddy varieties, Sharad Kumar Singh has taken own field for seed production. The seed production activity is supervised by the KVK scientists.

Seed production and seed supply of farmers to farmers

Year	Crop	Varieties	Seed Produced (q)	Total distributed seed (q)	Seed Supplied to farmers
2014-15	Paddy	PB-1509	180.00	52.00	112
	Wheat	HD 2967	110.50	62.50	70
		DB W 88	87.00	32.00	45
		WH 1105	98.00	24.00	40
		HD 3086	91.00	18.50	32
2015-16	Paddy	PB-1509	71.00	40.75	80
	Wheat	HD-2967	300.00	159.50	125
		HD-3086	26.25	18.80	35
		DBW-88	24.25	20.00	16
		DBW-90	22.50	18.75	19
		DBW-71	21.25	4.00	10
2016-17	Paddy	PB-1509	75.00	52.00	60
	Wheat	HD-3086	29.00	17.00	11
		HD-2967	160.00	125.00	92
		HD-3059	48.00	34.00	46
		DBW-88	56.00	41.50	55
		DBW-90	46.00	39.85	48
2017-18	Paddy	PB-1509	110.00	45.00	112
		PB-1637	32.00	32.00	60
	Wheat	HD-3086	52.00	32.00	22
		H-2967	155.00	120.00	315
		DBW-88	26.00	18.00	35
		DBW-90	24.00	10.00	22
		HD-3059	50.00	32.00	50
		WB-02	12.75	12.00	18

2018-19	Paddy	PB-1509	110.0	22.00	112
		PR-126	33.0	5.00	18
		NDR-3112	13.0	2.00	8
		PB-1637	32.0	24.00	60
		PR-126	65.0	18.00	41
	Wheat	HD-3086	54.00	28.00	22
		HD-2967	150.00	124.0	315
		DBW-88	25.00	12.00	35
		DBW-90	22.00	7.00	22
		HD-3059	50.00	33.00	50
		HD-3086	53.00	12.00	28
		WB-02	12.75	12.00	28
2019-20	Paddy	PB-1718	10.50	5.50	11
		PB-1728	10.00	3.75	8
		PB-1509	120.00	40.00	80
		PB-1637	30.00	22.00	68
		PR-126	65.00	18.00	41

Extra income through Participatory seed production

Year	Crop	Extra income through seeds Rs.
2014-15	Paddy	2,84,000.00
	Wheat	6,50,600.00
2015-16	Paddy	80,875.00
	Wheat	6,91,490.00
2016-17	Paddy	2,92,000.00
	Wheat	5,83,230.00
2017-18	Paddy	1,85,500.00
	Wheat	6,55,000.00
2018-19	Paddy	2,35,000.000
	Wheat	5,45,000.00
2019-20	Paddy	2,10,000.00

Recognition and Awards: Sri Sharad Kumar Singh achieved first prize of Rs 1,00,000.00 in wheat production (Variety HD-2967) in all over Uttar Pradesh during 2016, felicitated by Uttar Pradesh government. Presently other 80 farmers fully engaged in participatory seed production mode. Some major farmers as given below :-

SN	Name of Famers	Address
1	Mr. Pankaj Kumar	Sarifpur, Kotwali
2	Mr. Mukesh Kumar	Shadipur Begam, Kiratpur
3	Mr. Yaduveer Singh	Athai Aheer, Noorpur
4	Mr. Satish Kumar	Sidiyawali, Noorpur
5	Mr. Ajay Kumar	Bagwada, Seohara
6	Mr. Badan Singh	Murliwala, Afzalgarh
7	Mr. Balram Singh	Nansiwala, Dhampur
8	Mr. Dharmandra Kumar	Pawati, Haldaur
9	Mr. Bhupendra Singh	Kalakhari, Kotwali
10	Mr. Sharwan Kumar	Jalpur, Najibabad

(ii) Vermi-compost Production as Entrepreneurship

Till date employment generation for rural youth is a very crucial issue, keeping in mind these facts Krishi Vigyan Kendra, Bijnor playing significant role in the Development of Entrepreneurship in the form of establishment of Vermi-compost Production units, during 2012-13 to till now. The identified farmers of different villages were trained on different aspects of Vermi-compost Production techniques. After training the trained farmers are established Vermi-compost production units and earned about 1.5-3.0 lac per year. Details are as below:



Year	No. of Unit	Production (qt)	Income generated by the farmers
2012-13	02	250 - 500 qt per unit per year	1.50 - 3.00 Lac per unit per year
2013-14	07		
2014-15	10		
2015-16	12		
2016-17	15		
2017-18	17		
2018-19	20		
2019-20	22		
2020-21	35		

Success full farmer: After motivation and technical guidance of Agronomist of KVK, Bijnor, many farmers produce Vermi Compost successfully. Some names of Successful farmers are given below:

1. Sh. Virendra Kumar, Nagina, Block – Kotwali
2. Sh. Narendra Singh, Village – Hakikatpur Veerchand, Block - Kotwali
3. Sh. Jitendra Singh, Village – Baruki, Block – M. Devmal
4. Sh. Shakeel Ahamad, Town – Seohara, Block – Seohara
5. Sh. Ankit Kumar Tyagi, Village – Dhela Ahir, Blok – Noorpur
6. Sh. Rakesh Kumar, Village – Shahnajarpur Kort, Block – Noorpur



Detail of Vermi-Compost Unit

➤ 18 Feet long and 4 feet width, having 14 beds.

A Cost of production

1	Animal Dung 200 quintal @ Rs. 40/ q	:	8,000.00
2	Transportation cost Rs. 10 @ quintal	:	2,000.00
3	6 Labour @ Rs. 300/day for Mixing, Bed filling and punging	:	1,800.00
4	20 Labour for packaging & Filtering @ Rs. 300/ day	:	6,000.00
5	Other Cost	:	4,000.00
Total (Rs.)			21,800.00

Total Cost - Repetition of work about 9 times therefore (21,800 x 9)	:	1,96,200.00
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B Income

1	Prepare compost about 100 quintal each time (100 X 9 = 900)	:	
2	Selling Price @ 600 /quintal	:	
3	Selling Cost (Rs.) = 900 x 600	:	5,40,000.00
4	Income by earthworm selling (1 quintal)	:	30,000.00
Total Income (Rs.)			5,70,000.00

Net Profit (A-B)	:	3,73,800.00
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(iii) Single Bud Nursery Preparation of Sugarcane as Entrepreneurship

For employment generation of rural youth, reduction in cost of cultivation, time management of planting, enhancement of germination percentage, effective control of disease, preparation of Single bud nursery gets opportunity for Entrepreneurship. Some farmers successfully prepare nursery and get profit and generate employment to other persons, presently Govt. of India provides financial support for this purpose. Keeping in mind the facts KVK, Bijnor trained identified farmers of different villages on different aspects. At present Sh Suresh Singh Chouhan, village – Sarkara Chakrajmal, Sh Mukesh Kumar, village – Begampur Shadi, Sh. Kulveer Singh, village – Tisotra, Tejpal, Village – Rampur Vidar, Block - Noorpur Successfully prepare nursery.

Year	No. of Farmers
2019-20	05
2020-21	15

(iv) Organic Farming

For the purpose of employment generation of farming community and production of quality farm produce, KVK, Bijnor motivated and trained farmers and rural youth of district to organic farming. The impact seeing visually many farmers grown sugarcane, wheat, rice, etc. successfully on organic mode. Presently about 200 farmers engaged organic farming.

Year	No. of Farmers
2015-16	12
2016-17	25
2017-18	40
2018-19	90
2019-20	150
2020-21	200

Successful farmers :

1. Sh. Rajendra Singh, Village – Umari, Block – Noorpur
2. Sh. Brahmpal Singh, Village – Agari, Block – Haldour
3. Sh. Sudhir Tyagi, Village – Sikari Bujurg, Block – Nahtour
4. Sh. Surjeet Singh, Village – Beeruwala, Block – Najibabad
5. Sh. Jitendra Singh, Village – Bilai, Block – Haldour
6. Madan Pal Singh, Village – Suhagpur, Block – Haldour

(v) Intercropping in sugarcane with Relay cropping

Resource utilization, employment generation and nutritional security are important issues in current situation. Intercropping in sugarcane with Relay cropping played very significant role for above said purpose. Under the guidance KVK Sh. Jitendra Kumar, Village – Fulsandi, Block – Nahtour growing Sugarcane + Wheat + Mustard under intercropping system and Sugarcane + Kashifal intercropping after harvesting of Kashifal he growing onion.

(vi) Entrepreneurship through Mushroom cultivation

Mushroom production promoted by the KVK in the district Bijnor. Regular rural youth trainings for self employment generation were conducted for the popularization of Mushroom production. Sh. Vikas Kumar a progressive and educated farmer started a commercial unit of Mushroom production & all technical support provided by the KVK. He was properly trained by the KVK, Nagina on every minute aspect of commercial mushroom production. The unit producing mushroom throughout the year and one unique example of Mushroom production is giving here under:–

**Detail of Results obtained due to the adoption of technologies**

SN	Particular	Amount (Rs.)
i.	Cost of production per 5 q compost	1,800.00
ii.	Spawn	700.00
iii.	Labour	1,000.00
iv.	Other expenses	400.00
	Total	3,900.00
	Gross Cost (Rs.) : 3900.00 X 25q compost	97,500.00
v.	Average production from 5 q compost - 150 Kg Mushroom	
vi.	Price realized (Rs. per kg.)	110.00
vii.	Gross Income	16,500.00
viii.	Net Income	12,600.00
	Gross Income (Rs.) : 12,600.00 X 25 q compost	3,15,000.00



Innovative methodology for Transfer of Technology

(a) Progressive and leader farmers developed as Extension Agents

During 2014 the KVK developed 100 progressive farmers as Extension agents for the dissemination of new technologies in other fellow farmers of the district. The trained farmers came to KVK time to time for update their skills through newly developed agro-techniques.

Thematic Area	No. of expert farmers	Interaction with another farmers	No. of village covered
Trench method and intercropping in sugarcane	75	4800	65
IPNM in crops	40	3600	45
Varietal diversification and seed production	60	4500	65
IPM technique	15	800	20
New orcharding techniques	20	430	10
Micro irrigation system	05	450	08

(b) Spread of technology through Sugarcane Collection Centers

The district Bijnor has 760 sugarcane collection centres. KVK prepares one page technology message which is pasted on the walls of the centre where farmers from the area Jurisdiction come for delivering sugarcane for onward transportation to factories. Many times farmers enquire through mobiles of Scientists as per need. This method is adopted during sugarcane harvesting time starting from November – April. This is one of the most effective technology transfers in the shortest time period.

(c) Technological message delivered through Social Media

The KVK scientist prepares technological message and sends it to directly Farmers of the district. Presently KVK scientists govern 10 Whatsapp groups with 1800 farmers and also use of other social media like Facebook, Twitter & YouTube.



Facebook : <https://www.facebook.com/Bijnor-KVK-309300895907675/>
 Twitter : <https://twitter.com/KVKBijnor>
 YouTube : <https://www.youtube.com/watch?v=5W7h9dx5vWs&pbjreload=10>

(d) Problem diagnosed/technology popularized through Phone calls

Year	No. of phone calls/ Requests received from farmers for farm Assistances	No. of problems addressed
2013-14	1750	2150
2014-15	1882	2282
2015-16	1605	2005
2016-17	2042	2542
2017-18	2230	2730
2018-19	2050	2230
2019-20	2120	2145
2020-21	2500	2700
Total	15819	18784

(e) Transfer of technology through Electronic & Print Media

Media	Thematic area of Talk	No. of Talk/ Print
Radio	Varietal, Weed Management, ICM, IPM, Horticultural Crops.	12
TV	Varietal, Weed Management, ICM, IPM, Horticultural Crops.	--
Newspaper	Varietal, Weed Management, ICM, IPM, Horticultural Crops.	80

(f) Transfer of technology through Technology Park**Transfer of technology through Technology Park****1. Technological display on Wheat Crops (Total Visitors: 4250)**

Thematic Area	Tech. display	Major Highlighting Technology
Varietal	45	Timely Sown: HD-2967, HD-3226, DBW-187, PBW-723, HD-3086, DBW-88, WB-02, HPBW-01 & WH-1105 Late Sown: HD-3059, DBW-90, WH-1124, DBW-173, PBW-752
Weed Management	07	Post Emergence : Sulfosulfuron 75% + Metsulfuron 5% @ 40 gm/ha, Mesosulfuron methyl 3% + Idosulfuron methyl 0.6% @ 400 gm/ha, Clodinofof 15% WP @ 400 gm/ha + Metsulfuron 20% @ 20 gm/ha

**2. Technological display on Lentil & Mustard Crops (Total Visitors: 4250)**

Thematic Area	Tech. display	Major Highlighting Technology
Varietal	03	PL-8, PL-7 and Pusa Masoor Ageti
Varietal	11	Pusa Mustard-31, Pusa Mustard-26, Pusa Mustard-27, Pusa Mustard-30, NRCHB-101, PYS-1, YSH-0401, Pusa-25, PR-19 & PR-20
ICM	02	Mustard + Lentil, Mustard + Gram



3. Technological display on Rice Crops (Total Visitors: 3350)

Thematic Area	Tech. display	Major Highlighting Technology
Varietal	40	Scented Rice: PB-1718, PB1728, PB-1637, PB-1509, PB-1121, PB-1, PB-1460, Basmati-370, T-3, Pant Basmati-1, Pant Basmati-2 Coarse Rice: Nagina-22, Nagina-12 NDR-3112, PR-123, PR-124, PR-126 Hybrid Rice: Arize 6444 Gold, VNR-2245, SAVA-127
Weed Management	05	Post Emergence : Bispyribac sodium 10%SC @250 ml/ha Pre-Emergence : Pretilachlor @ 2.0 lit/ha, Bensulfuron + Pretilachlor @ 10 kg/ha and Oxadiagril 112.5gm/ha
Organic	01	Organic Basmati Production



LINKAGES

Functional linkage with different organization

The KVK has very strong linkage with different line departments and stake holders. The KVK is involved in technical backstopping of the line departments officials and regular participation in the programmes and vice versa. The linkages with stake holders are as under.

Name of Organization	Nature of Linkage
Deptt. of Agriculture	Diagnostic survey, training, gosthi/Seminar/ Farmers Fair
Deptt. of Horticulture	Participation in meeting/demonstration/training/ Farmers Fair
Cane Deptt. & Sugar industries	Gosthis& Trainings
NABARD	Technical Support to Kisan Clubs
ETV	Technical recordings & News coverage
Radio	Technical recordings & News coverage
NHM	Capacity building & Nursery management
UPDASP	Trainings, Meeting, Demonstration, Validation trial
IFFCO, KRIBHCO	Trainings/Gosthi
Deptt. of Animal Science	Trainings/Seminar/Animal Exhibition
NGO	Trainings/Gosthi

XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE :**A. Details on ATICs**

SN	Name of the ATIC	Name of the Host Institute	Name of the ATIC Manager
1	KVK Bijnor	SVPUAT, Meerut	Dr. K. K. Singh

B. Details on Farmer's visit

SN	Purpose of visit	Number of farmer's visited
1	Technology Information	950
2	Technology Products (Publication)	1(1000)

C. Facilities in the ATIC which are in operation

SN	Particulars	Availability (Please ✓ mark)	Number of ATICs
01	Reception counter	✓	01
02	Exhibition / technology museum	✓	
03	Touch screen Kiosk	--	
04	Cafeteria	✓	
05	Sales counter	--	
06	Farmer's feedback register	✓	

D. Technology information provided**D.1. Details on technology information**

SN	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
1	Kisan Call Centre / other Phone calls from farmers	01	2500	1150	600	500	100	100	50
2	Video shows	01	1500	07	05	03	12	03	04
3	Letters received	01	--	--	--	--	--	--	--
4	Letters replied	01	--	--	--	--	--	--	--
5	Training to farmers / technocrats / students	01	2000	15	07	05	25	05	03

D.2 . Publications (Print & Electronic media) : Nil**E. Technology Products provided : Nil****F. Technology services provided**

SN	Particulars	Number of farmers benefitted
1	Soil and water testing	--
2	Plant diagnostics	48
3	Details about the services to line Departments	150

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION : N.A**Status of revolving fund (Rs. in lakhs)**

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2011 to March12	10,27,297.54	9,89,554.00	12,33,093.00	7,83,759.54
April 2012 to March13	7,83,759.54	6,75,002.00	12,82,714.00	1,76,047.54
April 2013 to March14	1,76,047.54	15,40,487.00	12,90,660.00	4,25,874.45
April 2014 to March15	4,25,874.45	10,29,033.00	13,52,613.00	1,02,294.45
April 2015 to March16	1,02,294.45	9,47,854.00	9,22,097.95	1,28,050.50
April 2016 to March17	1,28,050.50	7,68,723.94	7,82,472.24	1,14,301.70
April 2017 to March18	1,14,301.70	1,96,307.00	11,25,213.60	1,85,395.09
April 2018 to March19	1,85,395.09	12,88,585.00	9,82,998.00	4,90,982.55
April 2019 to March 20	4,90,982.55	8,26,076.55	11,04,560.26	2,12,498.29
April 2020 to December 20	2,12,498.29	10,89,211.00	10,72,967.00	2,28,742.29

XVI Achievement of Special programmes

1) Achievement of skill development training funded by DAC&FW : NA

2) Achievements under Crop Residue Management (CRM) Project by KVKs

a) CRM Machinery procured by KVKs

S.No.	Name of the Machine/ Equipment	No. of machines procured
1	Happy Seeder	0
2	Reversible M.B. Plough	0
3	Paddy Straw Chopper/ Shredder / Mulcher	0
4	Zero Till Drill	0
5	Rotavator	0
6	Tractor	1 (Proposed)
Total		01

b) IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities	No. of Participants
1	Kisan Melas organized	1	225
2	Awareness programmes conducted at Village Panchayat/ Block/ District Level	20	5285
3	Mobilization of schools and colleges through essay completion, painting, debate etc.	1	300
4	Demonstration conducted (ha)	0	0
5	Training Programmes conducted	5	135
5	Exposure visits organized	0	0
6	Field /harvest days organized	0	0
Total		27	5945

c) Other IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities
1	Advertisement in Print media	0
2	Column/ Articles in newspaper and magazines etc.	02
3	Hoarding fixed (at Mandi/ Road side/Market/ Schools/ Petrol pump/ Panchayat etc.)	0
4	Poster/Banner placed	03
5	Publicity material - leaflets/ pamphlets etc. distributed	04
7	TV programmes/ panel discussions Doordarshan/ DD-Kisan and other private channels	01
8	Wall writing	0
Total		10

- 3) Achievement of TSP (Tribal Sub Plan) : NA
- 4) Achievement of KSHAMTA (Knowledge Systems And Home Based Agricultural Management in Tribal Areas) : NA
- 5) Achievements of SCSP KVKs : NA
- 6) Achievement under IFS KVKs : NA
- 7) Achievements under Mera Gaon Mera Gaurav (MGMG) project : NA
- 8) Achievements of Farmers FIRST programme : NA

9) Activities performed under NARI programme

Activities	Number of activity	No. of farmers/ beneficiaries
OFTs - Nutritional Garden (activity in no. of Unit)	2	21
OFTs - Bio-fortified Crops (activity in no. of Unit)	-	-
OFTs - Value addition (activity in no. of Unit/ Enterprise)	2	4
OFTs - Other Enterprises (activity in no. of Unit/ Enterprise)	1	1
FLDs - Nutritional Garden (activity in no. of Unit)	1	13
FLDs - Bio-fortified Crops (activity in no. of Unit)	2	4
FLDs - Value addition (activity in no. of Unit/ Enterprise)	2	28
FLD- Other Enterprises (activity in no. of Unit/ Enterprise)	-	-
Trainings	15	345
Extension Activities	30	525
Grand Total	55	941

10) Achievements of Soil, water, plant and manure samples analyzed by KVKs and soil health cards issued

Sample	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs. in lakhs)	No. of Soil Health Cards issued
Soil	50	50	15	--	50
Total	50	50	15	--	50

- 11) Achievements under NICRA Project : NA
- 12) Achievements under ARYA Project : NA
- 13) Achievements under Rainwater Harvesting Structures : NA
- 14) Achievements under Pulses Seed Hub programme : NA

15) NEMA (New Extension Methodologies and Approaches)

Name of Crop with variety	No. of districts	No. of Villages selected	No. of Blocks	No. of household selected	
				Adapter household	Non adapter household
Paddy (PB-1121/1509)	01	10	05	10	20
Wheat (HD 2967)	01	10	05	10	20

16) Achievements under CSISA (Cereal System Initiative for South Asia) project : NA

17) Achievements under NIFTD (National Initiatives for fodder technology demonstrations) : NA

18) Achievements under Swachhata Abhiyan Mission

S.No.	Items	No. of Programmes	No. of persons
1	Toilet maintenance	01	35
2	Road, drain cleaning	15	210
3	Garbage disposal	01	18
4	Door to door awareness	04	130
5	Awareness campaign	15	450
6	Nookkad Drama	--	--
7	School Drama	--	--
8	School rally	--	--
9	Writing painting slogans	--	--
10	Composting	01	22
11	Other	--	--

19) Achievements under Aspirational District Scheme : NA

20) Awards

S.No.	Name of Award received	Name of KVK/farmer	Year of Award	Date on which award received
1	Research Excellence Award	Dr. K. K. Singh, Scientist (Plant Breeding)	2020	Dec. 2020

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