

# KRISHI VIGYANKENDRA-MUZAFFARNAGAR-I

## ANNUAL REPORT (January- December 2021)

### APR SUMMARY

#### 1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	60	897	303	1200
Rural youths	13	165	70	235
Extension functionaries	17	150	40	190
Sponsored Training	13	273	02	275
Vocational Training	02	40	0	40
<b>Total</b>	<b>105</b>	<b>1525</b>	<b>415</b>	<b>1940</b>

#### 2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	50	20.00	--
Pulses	125	50.00	--
Cereals	60	24.00	--
Vegetables	0	0	--
Flower	0	0	--
Hybrid crops	10	1.5	--
Fruits	0	0	--
<b>Total</b>	<b>245</b>	<b>95.5</b>	
Livestock & Fisheries	--	--	--
Other enterprise- H.Sc	20	--	20
<b>Total</b>	<b>20</b>	<b>--</b>	<b>20</b>
<b>Grand Total</b>	<b>265</b>	<b>95.5</b>	<b>20</b>

#### 3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
<b>Technology Assessed</b>			
Crops	5	5	19
Livestock	--	--	--
Other enterprises			
<b>Total</b>	<b>1</b>	<b>1</b>	<b>5</b>
<b>Technology Refined</b>			
Crops	--	--	--
Livestock	--	--	--
Various enterprises	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Grand Total</b>	<b>6</b>	<b>6</b>	<b>24</b>

#### 4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	1100	5900
Other extension activities	117	993
<b>Total</b>	<b>1217</b>	<b>6893</b>

#### 4. Mobile Advisory Services

55 Message Type	Type of Messages						Total
	Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
Text only	--	--	--	--	--	--	--
Voice only	800	--	30	170	217	242	1459
Voice & Text both		--	--	--	--	--	--
Total Messages	800	--	30	170	217	242	1459
Total farmers Benefitted	800	--	30	170	217	242	1459

#### 5. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	---	--
Planting material (No.)	--	--
Bio-Products (kg)	215.00	1075.00
Honey Processing (Kg)	400.00	4800.00
Fishery production (No.)	--	--

#### 6. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil- Macro/Micro Nutrient	265	39750.00
Soil Health Card Issued	265	
<b>Total – Soil Health Card</b>	<b>265</b>	<b>39750.00</b>

#### 7. HRD and Publications

Sr. o.	Category	Number
1	Workshops	--
2	Conferences	--
3	Meetings	04
4	Trainings for KVK officials	02
5	Visits of KVK officials	02
6	Book published	--
7	Training Manual	--
8	Book chapters	--
9	Research papers	--
10	Lead papers	--
11	Seminar papers	--
12	Extension folder/ Tech Card	--
13	Proceedings	--
14	Award & recognition	01
15	On going research projects	02

# PROGRESS REPORT

(January to December 2021)

## 1. General Information about the KVK

### 1.1. Name and address of the KVK

Address	Telephone		E-Mail
	Office	FAX	
<b>SWAMI KALYAN DEV KRISHI VIGYAN KENDRA, BAGHRA, DISTT.- MUZAFFARNAGAR (U.P.)</b> PIN- 251306	0131-2466362 9411078115		kvkmuzaffarnagar@gmail.com  muzaffarnagarkvk@gmail.com

### 1.2. Name and address of the host organization

Address	Telephone		E-Mail
	Office	FAX	
<b>DIRECTORATE OF EXTENSION</b> S.V.P.Univ. of Agril. & Tech., Meerut.	0121- 2888511	0121- 2888505  2888540	deesvpuat2014@gmail.com

### 1.3. Name of the Professor & Head

Name	Telephone/ Contact		E-Mail
	Residence	Mobile	
<b>Dr. Anil Katiyar</b>	--	094112667101	kvkmuzaffarnagar@gmail.com muzaffarnagarkvk@gmail.com

### 1.4 . Year of Sanction

: December 1995

### Location



 **KVK BAGHRA, MUZAFFARNAGAR, WESTERN PLAIN ZONE (UP)**

### 1.5. Staff Position (as on December 2021) :

S. No	Sanctioned Post	Name of incumbent	Designation	Discipline	Pay Scale Present Grade Pay	Date of Joining	Category
1.	Professor & Head	Dr. A. K. Katiyar	Professor	Soil Science	37400-67000 10000	16.01.95	OBC
2.	SMS	Dr. Savita Arya	SMS/Asstt. Prof.	H.Sc.	37400-67000 9000	08.03.96	OBC
3.	SMS	Dr. Virendra Singh	SMS/Asstt. Prof.	Plant Protection	15600-39100 8000	26.12.08	OBC
4.	SMS	Dr. Sripal	SMS/Asstt. Prof.	Plant Breeding	15600-39100 8000	01.07.08	OBC
5.	Programme Asstt.	Dr. J.K.Arya	Programme Asstt.	Horticulture	9300-34800 4800	22.12.95	OBC
6.	Computer Programmer	Sh. A.K Singh	Programme Asstt.,Comp	Computer Application	9300-34800 4800	16.10.99	GEN
7.	Acctt./ Suptd	Sh. S.K.Dubey	O.S/Acctt.	--	9300-34800 4600	01.07.92	GEN
8	Stenographer	Sh. Chandra Shekhar	Typist/ Clerk	--	5200-20200 2800	29.03.97	GEN
9	Driver	Sh. Vijendra Singh	Driver	--	5200-20200 2800	22.12.95	OBC
10	Supporting Staff	Sh. Ajesh Sharma	Attendant	--	4440-7440 2400	16.01.95	GEN

### 1.6. Total land with KVK (in ha) : 0.70 ha.

S.No	Item	Area (ha)
1.	Under Building	0.20
2.	Under Demonstration Units	0.50

### 1.7. Infrastructure Development :

#### A). Building

S. No.	Name of the building	Source of fund	Stage		
			Complete		
			Completion date	Plinth area in Sqm.	Sanctioned budget (Rs)
1.	Administrative Building	ICAR	March 1998	510 sqm	15.84 lac
2.	Farmers Hostel	ICAR	31.03.10	300	---
3.	Staff Quarters (6)	ICAR	31.03.08	400 sqm	26.71 lac
4.	Demonstration Unit (2)	ICAR	31.03.08	160 sqm	11.58 lac

#### B). Vehicles

Type of Vehicle	Year of Purchase	Cost (Rs.)	Total KMS Run	Present Status
Jeep UP12 S 2012	2009	507000.00	217498 KM	Auctioned
Tractor	1996	261685.00	--	Transferred to KVK Shamli
Bicycle	1995	2390.00	--	Auctioned
Motorcycle (Hero Honda-UP 12 W 9367)	2010	52000.00	25396 Km	Working

### c). Equipments & AV Aids

Name of Equipment	Year of Purchase	Cost (Rs.)	Present Status
<b>Equipments</b>			
Weighing Balance with weight	20.05.98	505.00	Working
Sewing Machine	06.02.98	268.00	Working
P.A. Set	30.03.98	6327.00	Working
Water Tank	30.06.97	6200.00	1 Working
Diesel Engine with Alternator	30.03.98	19931.00	Working
Generator	24.03.04	28900.00	Working
Submercible T/Well	31.03.05	35500.00	Working
Soil Testing Laboratory (Furniture, Equipment complete accessories)	2004-05	860000.00	Working
V.C.D.	26.03.04	2450.00	Working
Camera	26.03.04	5800.00	Working
Camera (Digital)	01.02.07	19990.00	Working
Colour T.V.	07.02.04	16990.00	Working
Fax Machine	27.03.04	11000.00	Working
Scanner, C.D. Writer, UPS for Computer	31.03.05	7490.00	Working
Demonstration Material (Digital Poster 10 No., 3 D Models 6 No.)	23.03.04	14570.00	Working
LCD With Memory Card	30.03.07	68125.00	Working
42 CDs (ICAR Literature)	26.10.05	Provided by ICAR	Working
<b><u>Farm Implements :</u></b>			
Harrow	30.03.96	8500.00	Condemn
Tiller	30.03.96	10500.00	Working
Ridger	30.03.96	5700.00	Working
Laveller	30.03.96	9000.00	Working
Ridge Maker	30.03.96	4500.00	Working
Bogi	23.09.97	5025.00	Working
Foot Sprayer (Maruti)	14.03.97	1850.00	Working
Napsake Sprayer (Aspee)	14.03.97	865.00	Working
Jubilee Duster (Aspee)	14.03.97	900.00	Working
Harrow (11 disc)	01.08.03	11500.00	Working
Weighing Machine	06.08.04	2880.00	Working
Trolley	30.11.04	61500.00	Working
Zero Till Ferti Seed Drill	30.03.05	22500.00	Working
Raised- bad- planter	31.03.10	55000.00	Working
Soil Micronutrients unit	31.03.10	2480000.00	Working
Honey Processing Unit	31.03.10	760000.00	Working



## DEMONSTRATION UNITS AT KVK



**Honey Processing Unit**



**Agriculture Technology Information Center**



**Soil Testing Unit**



**Vermi Compost Unit**



**Medo Garden**



**Herbal Garden**



**Automatic Weather Station**



**Nutritional Kitchen Garden**

### c). Equipments & AV Aids

Name of Equipment	Year of Purchase	Cost (Rs.)	Present Status
<b>Equipments</b>			
Weighing Balance with weight	20.05.98	505.00	Working
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P.A. Set	30.03.98	6327.00	Working
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Honey Processing Unit	31.03.10	760000.00	Working

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

Sl. No.	Date	Name and Designation of Participants	
1.	10.01.22	डॉ० पी०के० सिंह	निदेशक प्रसार, स०व०प० कृषि वि०वि० मेरठ
		डॉ० पी०के० सिंह	सह प्राध्यापक सस्य, सवप कृषि वि०वि० मेरठ
		डॉ० एस०के० त्रिपाठी	सह प्राध्यापक उद्यान, सवप कृषि वि०वि० मेरठ
		श्री आर०पी० चौधरी	उप कृषि निदेशक
		श्री अरविन्द कुमार शर्मा	डिप्टी पी०डी० आत्मा,
		डॉ० जे०पी० सिंह	संयुक्त निदेशक, गन्ना शोध
		डॉ० नीरज कुमार	वैटेनरी ऑफिसर बघरा
		श्री अनिल कुमार पंवार	प्रगतिशील कृषक, ग्राम घटायन
		श्री अमित सिंह	प्रगतिशील कृषक, ग्राम लडवा
		श्री आजाद सिंह	प्रगतिशील कृषक, ग्राम बिजोपुरा
		श्री मनोज त्यागी	प्रगतिशील कृषक, रोहानाकलां
		श्री ओमकार त्यागी	प्रगतिशील कृषक, ग्राम बडकली
		श्री अनुराग त्यागी	प्रगतिशील कृषक, रोहानाकलां
		डॉ० अजित सिंह	प्रगतिशील कृषक, ग्राम कुटबा
		श्री प्रवीन कुमार	प्रगतिशील कृषक, ग्राम तितावी
		श्री राजेन्द्र सिंह	प्रगतिशील कृषक, अमीरनगर
		श्री सन्तुल त्यागी	प्रगतिशील कृषक, ग्राम खुसरोपुर
		श्री सोनू	प्रगतिशील कृषक, ग्राम चांदपुर
		श्री राज सिंह	प्रगतिशील कृषक, ग्राम नगलापिथौरा
		श्री कर्णसिंह	प्रगतिशील कृषक, ग्राम धनसनी
श्रीमती सुषमा तोमर	एस०एच०जी० मैम्बर		
श्रीमती रविता	महिला कृषक, ग्राम हैदरनगर		
श्रीमती ममता	महिला कृषक, ग्राम हैदरनगर		
श्रीमती पिंकी	महिला कृषक, ग्राम लखान		
	<b>सदस्य का नाम</b>	<b>सुझाव</b>	
1.	डॉ० पी०के० सिंह निदेशक प्रसार	निदेशक प्रसार द्वारा अवगत कराया गया कि केन्द्र पर गाडी उपलब्ध न होने के कारण पीओएल मद में उपलब्ध धनराशि से गाडी हायर करते हुए केन्द्र के कार्यों को गति प्रदान की जाये।	



2.	श्री आर०पी० चौधरी उप कृषि निदेशक	उप कृषि निदेशक द्वारा सुझाव दिया गया कि उर्द की फसल में कालागढ प्रजाति के परिणाम हमेशा सकारात्मक रहे हैं। इस प्रजाति को प्रदर्शनों में सम्मिलित किया जाये।
3.	डॉ० एस०के० त्रिपाठी	डॉ० त्रिपाठी द्वारा सुझाव दिया गया कि प्रथम पंक्ति प्रदर्शनों के अन्तर्गत अन्य फसलों के साथ-साथ फलों को भी सम्मिलित करते हुए इस पर भी प्रदर्शन लगाये जाये।
4.	श्री अरविन्द्र कुमार शर्मा	डिप्टी पी०डी० आत्मा द्वारा ट्रायकोकार्ड की उपलब्धता सुनिश्चित करने हेतु सुझाव दिया गया।
5.	डॉ० पी०के० सिंह निदेशक प्रसार	निदेशक प्रसार द्वारा सुझाव दिया गया कि प्राकृतिक खेती को रिवेलीडेट किया जाना आवश्यक है। इसके लिये अथेन्टिक डाटा की आवश्यकता है जिससे कि किसान भाई संस्तुत की गयी मात्रा का प्रयोग करके लाभान्वित हो सके। निकट भविष्य में इस कार्य पर एक परियोजना केन्द्र पर प्रस्तावित है।
6.	डॉ० पी०के० सिंह सह प्राध्यापक सस्य	द्वारा सुझाव दिया गया कि केन्द्र द्वारा सी०एफ०एल०डी० के अन्तर्गत लगाये गये सरसों की फसल के प्रदर्शनों पर ही पादप सुरक्षा विषय के प्रदर्शन आयोजित किये जायें। सरसों फसल पर अतिरिक्त प्रदर्शन लगाने की आवश्यकता नहीं है।
7.	श्री अरविन्द्र कुमार	महिला स्वयं सहायता समूहों के द्वारा किये जा रहे उत्कृष्ट कार्यों पर एक सफलता की कहानी बनायी जाये।
8.	डॉ० नीरज कुमार	सरकार द्वारा चलायी जा रही योजनान्तर्गत पशुओं में इयर टैग को बढ़ावा देने हेतु कृषकों को जागरूक किया जाये।
9.	श्री अरविन्द्र कुमार शर्मा	डिप्टी पी०डी० आत्मा द्वारा कहा गया कि देर से बोयी जाने वाली गेहूं की प्रजाति डी०बी०डब्लू० 222 के परिणाम उत्साहजनक हैं। इस प्रजाति को भी प्रदर्शन में सम्मिलित किया जाये।
10.	श्री आर०पी० चौधरी उप कृषि निदेशक	कीटों के नियंत्रण हेतु बाजार में विभिन्न प्रकार के ट्रैप उपलब्ध है। जिनका प्रयोग करके जैविक सब्जी उत्पादन किया जा सकता है। इस विषय में किसानों को जागरूक किया जाये।

## 2. Details of District

### 2.1 Major Farming System/ enterprises (based on analysis made by KVK)

- S. Cane based + A.H+ Horticulture
- S. Cane based + A.H+ Vegetable + Floriculture
- A.H + Labour

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

Sl. No.	AES	Characteristics of AES	Major Commodities	Farming System	Blocks
1.	AES-1	More than 95% irrigated, Loam	S.Cane, Wheat, Rice, Jowar, Mango, Guava, Litchi , Frenchbean	S. Cane based + A.H+ Horticulture	Baghra & Sadar
2.	AES-2	More than 95%, Sandy Loam	S.Cane, Wheat, Jowar, Brinjal, Cabbage, Gladiolus, Tuberose,	S. Cane based + A.H+ Vegetable+ Floriculture	Charthawal, Khatauli
3.	AES-3	Low Water table area, Loam & Sandy Loam soil	S. Cane, Wheat, Blackgram, Jowar, Mango	S. Cane based + A.H + Horticulture	Budhana & Shahpur

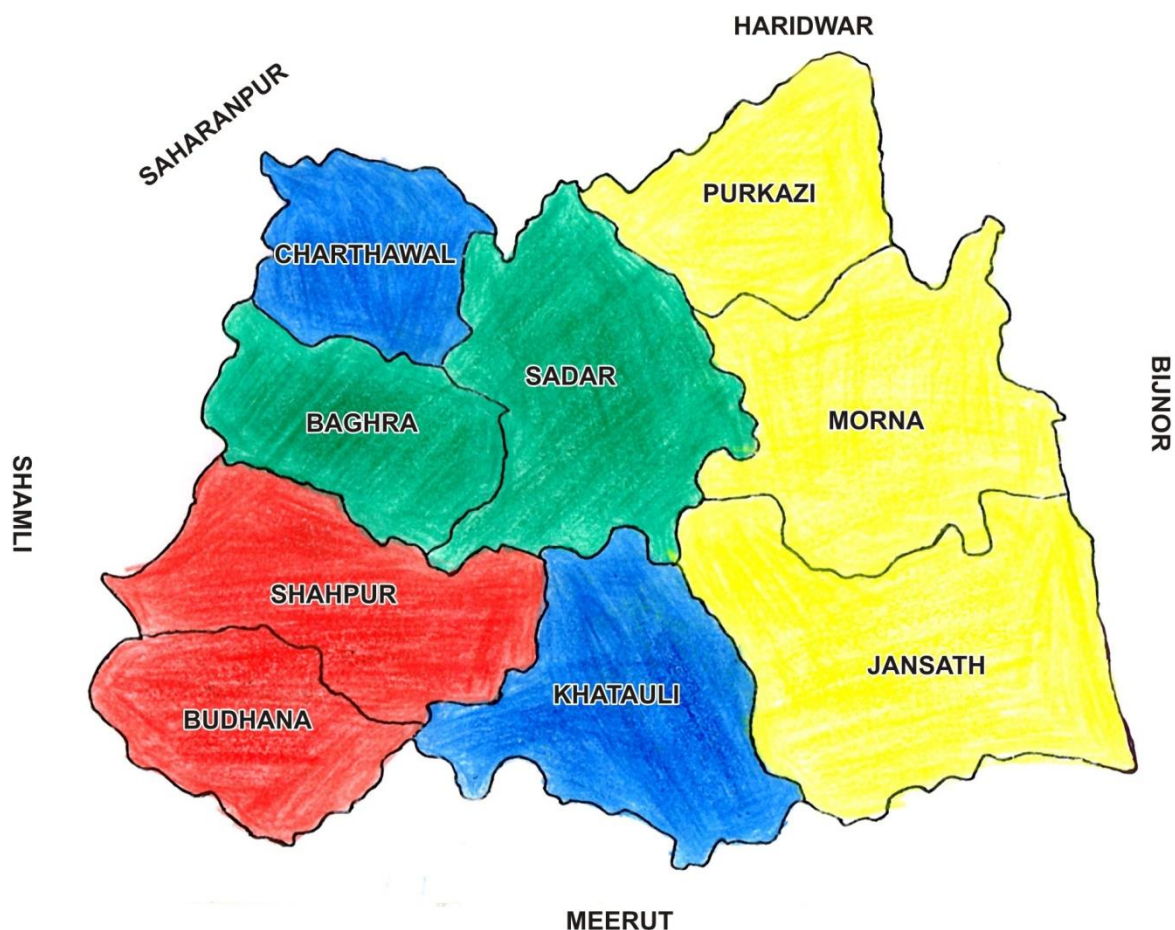
### 2.3 Soil Type/s

S.No.	Soil Type	Characteristics		Area (ha)
		Soil particle Diameter (mm)	Water holding capacity	
1.	Sandy	2 - 0.2 mm,	Poor	17633
2.	Sandy loam	0.2 - 0.02 mm,	Medium	128334
3.	Loam	0.02 - 0.002 mm	Average	78186
4.	Clay loam	>than 0.002 mm	Good	5126
		<b>Total</b>		<b>219269</b>

# MUZAFFARNAGAR DISTRICT

## (AGRO-ECOLOGICAL WISE MACRONUTRIENT FERTILITY MAP)

Colour	AES	Nitrogen	Phosphorus	Potassium
Yellow	I	Low	Low - medium	Low - medium
Green	II	Low - medium	Low - medium	Low - medium
Blue	III	Low - medium	Low - medium	Low - medium
Red	IV	Low - medium	Low - medium	Low - medium



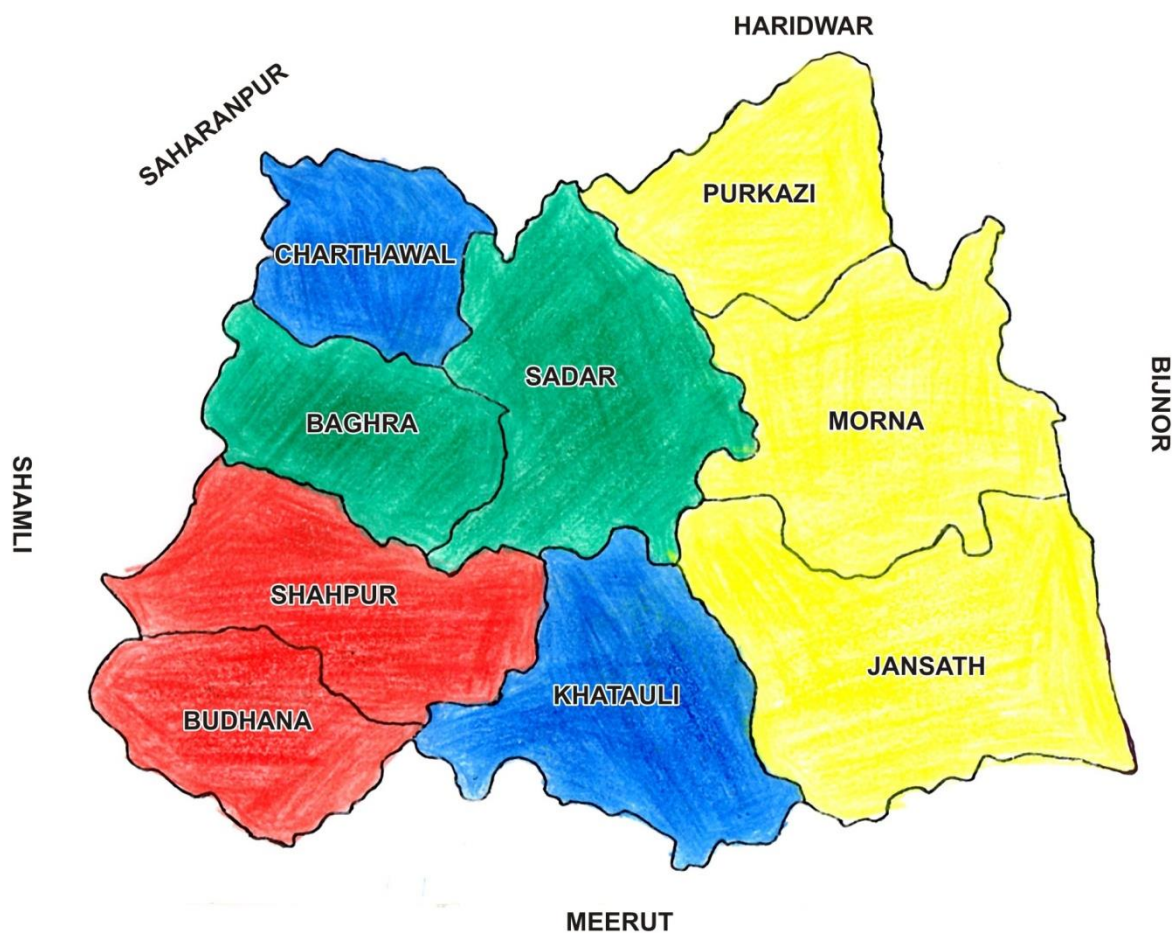
Nutrients	Categories		
	Low	Medium	High
Available N ( $\text{kg ha}^{-1}$ )	<280	280-560	>560
Available P ( $\text{kg ha}^{-1}$ )	< 10	10- 25	> 25
Available K ( $\text{kg ha}^{-1}$ )	< 120	120-280	>280

**Soil Micronutrient Testing:**

# MUZAFFARNAGAR DISTRICT

## (AGRO-ECOLOGICAL WISE MICRONUTRIENT FERTILITY STATUS)

Colour	AES	Per cent deficient samples					
		Zn	Fe	Mn	Cu	B	Mo
Yellow	I	92	82	48	35	10	7
Green	II	89	84	52	38	12	5
Blue	III	95	77	46	33	9	6
Red	IV	97	79	47	36	11	4



Micronutrient Tested	Normal Soil Range (ppm)
Zn	>1.2
Fe	>8.0
Mn	>4.0
Cu	>0.4
B	>0.5
Mo	>0.2

## 2.4. Area, Production & Productivity of major crops cultivated in the district in 2020-21

S.No	Crop	Area (ha)	Productivity (Qt./ha)
1.	Sugarcane	132004.00	812.00
2.	Wheat	80254	41.17
3.	Paddy	11580	23.36
4.	Blackgram	717	5.40
5.	Greengram	100	4.14
6.	Lentil	285	6.91
7.	Gram	270	1074
8.	Pea	360	13.89
9.	Pigeon Pea	37	8.04
10	Mustard	4018	12.35
11	Potato	3260	230.01
12	Cotton	274	1.30
13	Maize	250	15.75

## 2.5 Weather Data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
January 2020	59.8	17.6	6.5	91
February 2020	40.0	22.4	7.8	87
March 2020	116.0	26.4	12.4	80
April 2020	35.8	32.6	17.7	64
May 2020	53.4	35.6	21.4	64
June 2020	87.6	35.3	24.5	78
July 2020	324.8	33.0	23.9	79
August 2020	240.0	32.5	24.7	90
September 2020	40.0	34.1	23.8	87
October 2020	0.6	30.7	18.2	83
November 2020	33.2	26.7	13.2	83
December 2020	35.6	17.4	6.7	90



## 2.6 Production & Productivity of Livestock, Poultry, Fisheries in the district

Category	Population	Production	Productivity
<b>Cows</b>			
Crossbred	35460	413514 liter/day	1800-3178 liter/lactation
Indigenous	133459		1200-2270 liter/lactation
<b>Buffalo</b>	194306	1790140 liter/day	1360-2270 liter/lactation
<b>Sheep</b>		--	--
Crossbred	223	Wool - 11873 kg/ year	--
Indigenous	8478		
<b>Goats</b>	20429	5294 mt	180-544 lit/lactation
<b>Pigs</b>			
Crossbred	10543	12012000 kg meat	--
Indigenous	24856		
<b>Rabbits</b>	281	--	--
<b>Poultry</b>			
Hens			
Desi	54502	163589 kg meat	1.0 kg
Improved	109087		
Ducks	1642	--	--
Turkey	19	--	--
Camel	41	--	--

### Fisheries

Category	Area (ha)	Production	Productivity
Fish	1239	40887 qt	30-35

## 2.7 Details of Operation area/ Villages (2021)

S. No.	Taluk	Name of Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust areas
1.	Sadar	Baghra	Narottampur Haidernagar	Sugarcane	Low yield due to imbalance fertilizer	Balance use of fertilizer
				Wheat	Low yield due to high infestation of weeds	Weed management
				Mustard	Poor yield due to aphid infestation	Insect mgt.
				Mango	Poor yield due to no use of micronutrients	Fertilizer management

				Guava	Poor quality yield due to fruit fly infestation	Fruit fly management
				Cauliflower	Poor yield due to use of local variety	Introduction of HYV
				Brinjal	Poor quality of fruits due to foot & shoot borer	IPM
2.	Khatauli	Khatauli	Bhangela	Sugarcane	High infestation of insect & disease	Insect & disease mgt. through IPM
				Gladiolus	Low yield due to use of local variety and rotten corm	Introduction of HYV Disease mgt.
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
3.	Jansath	Jansath	Mantodi	Sugarcane	Poor yield due to no use of organic matter	Promoting of organic manure
				Wheat	Low yield due to imbalance use of fertilizer	IPNM in Wheat
				Merigold	Use of local seed High infestation of disease	Introduction of HYV Disease mgt.
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
				Barseem	Low yield due to local seed	Introduction of HYV
4.	Budhana	Budhana Shahpur	Salakhedi Sohjani Tagan	Sugarcane	Low yield of Sugarcane	Introduction of HYV Balance fertilizer application IPNM & IPM
				Mango	Low yield of Mango	IPNM & IPM Rejuvenation of old orchard Introduction of regular bear variety
				Wheat	Low yield	Water management IPM Weed mgt. Introduction of HYV

				Barseem	Low fodder production	Timely sowing Introduction of HYV
5.	Sadar	Charthawal	Rohana kala Dudhali Badhai Kala	Sugarcane	Low yield due to imbalance fertilizer	Balance use of fertilizer
				Wheat	Low yield due to high infestation of weeds	Weed management
				Mustard	Poor yield due to aphid infestation	Insect mgt.
				Makhan Grass	Low fodder production	Introduction of new Fodder

## 2.8 Priority Thrust Areas.

Crop/Enterprise	Thrust area
Sugarcane	IPNM, SSNM, Weed management, IPM, IDM, Seed production
Wheat	Integrated Nutrient Management, Weed management, IPM, IDM, Seed production, Foliar application of Micronutrients
Rice	IPNM, Weed management, Hybrid rice, IPM, IDM, Seed production
Vegetables	IPNM & IPM
Oilseeds & Pulses crop	Sulphur, Zinc application & IPM
Animals	Endo & Ecto parasite control, Improving fertility

1. Maintenance of soil productivity through soil test based nutrient management.
2. Promoting intercropping modules with Sugarcane
3. Popularizing Bio- pesticides for management of insect pests
4. Promoting quality floriculture as diversification enterprise for extra income generation.
5. Promoting quality vegetable nursery
6. Mineral mixture supplementation among animals for improving fertility
7. Promoting Group Approach of Extension through Women SHGs and Vallabh Krishak Clubs

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

Before Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent Yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Intercropping System(Kharif-Rabi-Zaid) -Livestock etc.							
Sugarcane	825.00	--	----	108373.00	159782.00	2.47:1	--

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

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Intercropping System(Kharif-Rabi-Zaid) -Livestock etc.							
Sugarcane + Greengram	825.00	8.00	141.58	Main crop 108343.00	151532.00	2.40	Rate of S. Cane@ Rs. 315/ qt & Green Gram @ Rs. 5575/- qt
				Intercrop 18166.00	26434.00		
				<b>Total – 126509.00</b>	<b>177966.00</b>		
Sugarcane + Blackgram	825.00	7.25	124.28	Main crop – 108343.00	151532.00	2.37	Rate of Urd @ Rs. 5400/- qt
				Intercrop- 14500.00	21650.00		
				<b>Total – 125843.00</b>	<b>173182.00</b>		
Sugarcane + Lentil	825.00	9.00	121.45	Main crop - 104343.00	151532.00	2.36	Rate of Lentil @ Rs. 4250/- qt
				Intercrop – 17850.00	20400.00		
				<b>Total – 126193.00</b>	<b>171932.00</b>		
Sugarcane + Mustard	825.00	12.00	152.38	Main crop – 108343.00	151532.00	2.35	Rate of Mustard @ Rs. 4000/- qt
				Intercrop- 22560.00	25440.00		
				<b>Total – 130903.00</b>	<b>176972.00</b>		
Sugarcane + Frenchbean	825.00	250.00	793.65	Main crop – 108343.00	151532.00	2.50	Rate of Frenchbean @ Rs. 1000/- qt
				Intercrop – 95150.00	154850.00		
				<b>Total – 203493.00</b>	<b>306382.00</b>		

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

OFT (Technology Assessment and Refinement)		FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)				
1		2				
Number of OFTs		Achievements		Shortfall		
Targets	Achievement	Crop/Enterp rise	No of Demo./ Farmer	Targets	Achievem ent	
6	6	Cereals	60	Demo	100	265
		Pulses	125	Area (ha)	50	90.5+ 20 Unit
		Oilseeds	50			
		Fruits	0			
		Other crops	10			
		H.Sc	20			
		Buffalo/ Cattle	0			
6	5	Total	265			

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	Target s	Achievem ent	Targe ts	Achievem ent	Targe ts	Achiev ement	Targets	Achieve ment
Farmers	100	60	2000	1200	---	1217	2000	6893
Rural youth		13	--	235				
Extn. Functionaries		17	--	190				
Sponsored		15	--	315				
<b>Total:</b>	<b>100</b>	<b>105</b>	<b>2000</b>	<b>1940</b>	<b>---</b>	<b>1217</b>	<b>2000</b>	<b>6893</b>

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200 Q.	--	--	20000 No.	--	--
<b>Total :</b>	<b>--</b>		<b>20000 No.</b>	<b>--</b>	<b>--</b>

Soil Samples (Nos.)			
5			
Target	Achievement	No. of farmers	Amount
600	265	265	39750.00
<b>Total :</b>			39750.00



## I.A TECHNOLOGY ASSESSMENT

### Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Varietal Evaluation	Wheat	Evaluation of High Yielding variety of Wheat in timely sown Condition	1	3
		Evaluation of High Yielding variety of Wheat in Late sown Condition	1	3
Varietal Evaluation	Paddy	Evaluation of High Yielding variety of Paddy	1	3
INM	Wheat	Soil Health Card based Nutrient management in Wheat	1	5
INM	Sugarcane	Site Specific Nutrient management in Sugrcane	1	5
Total			5	19

### Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Durgery reduction technologies	H.Sc	Assessment of Hanging Shieve for drudgery reduction and efficiency enhancement of farm women	1	5

## I.B. TECHNOLOGY REFINEMENT- Nil

## I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

## VARIETAL EVALUATION

**Problem identification:** Lower productivity and profitability of Wheat due to use of old & disease prone variety (PBW- 550).

**Technology Assessed:** Introduction of timely sown HYV variety of Wheat PBW 725

Wheat is main crop of distt. Muzaffarnagar. Due to lack of technical knowledge like broadcasting method of sowing and use of old variety, the productivity level is low. An On farm trial was conducted during Rabi 2020-21 at three location to evaluate high yielding variety of Wheat under irrigated condition. The variety PBW 725 recorded highest tillers (218 /sqm), spike length (11.3) cm, grains /spike (43.0) , yield (44.15.00 qt/ha) and 1000 grain weight (44.0 gm) which increased 14.67 % yield in comparison to check variety PBW 550. PBW 725 was not affected by Yellow rust. Maximum net return of Rs. 62196 .0 /ha was obtained from PBW 725 followed by Rs. 51037.0/ha from PBW 550.

**Table : Evaluation of high yielding variety of Wheat**

Technology Option	Yield (qt./ha)	Gross Return (Rs/ha)	Net income (Rs/ha)	B:C Ratio
T1- Farmers practice (PBW-550)	38.50	76037.5	51037	3.041
T2- PBW 725	44.15	87196.25	62196.0	3.63

DOS : 14.11.20

DOH 15.4.2021

### Observation Recorded

Technology Option	Tillers/m <sup>2</sup>	Spike length (cm)	No of grains/spike	1000 grain weight (gm)	Maturity duration (days)	Yellow rust incidence (%)	Lodging %
T1- Farmers practice (PBW-550)	204	9.2	38.0	39.0	150	3-4	6
T2-PBW 725	218	11.3	43.0	44.0	150	Nil	Nil

### Result :

1. PBW 725 variety gave highest yield of 44.15 qt/ha with maximum net return Rs. 62196.0 /ha followed by PBW 550 (Rs.51037.00)
2. Variety PBW 725 gave 14.67 % more yield in comparison to PBW 550.

### Farmers Reaction :

1. Due to higher yield farmers liked PBW 725
2. Variety PBW725 was not affected by yellow rust disease
3. There was no lodging seen in PBW 725



## VARIETAL EVALUATION

**Problem identification:** Lower productivity and profitability in late sown Wheat variety PBW 509

**Technology Assessed :** Introduction of late sown HYV variety of Wheat DBW173

About 70% of Wheat area in the district is late sown which results in poor productivity. Some of the farmers sown the crop till end of January. PBW 509 and other old varieties of wheat covers about 55% area under late sown but these varieties is highly susceptible to yellow rust. An On farm trial was conducted during Rabi 2020-21 to assess the suitability of newly released variety DBW 173 under late sown condition after harvesting Sugarcane crop in irrigated situation. The variety DBW 173 gave highest yield of 39.80 qt/ha with maximum net income of Rs.54605.00 /ha followed by PBW 509. The incidence of yellow rust was recorded 3 % in PBW 509 while DBW 173 did not show any symptom. The 1000 grain weight of DBW 173 was highest i.e 38.80 gm while it was 34.10 gm of PBW 509 only in farmers practice.

**Table : Evaluation of high yielding variety of Wheat**

Technology Option	Yield (qt./ha)	Gross Return (Rs/ha)	Net income (Rs/ha)	B:C Ratio
T1- Farmers practice (PBW 509 )	35.40	69915.0	44915.0	2.79
T2- DBW 173	39.80	78605.0	54605.0	3.27

DOS : 3.12.2020

DOH : 17.4.2021

### Observation Recorded

Technology Option	Tillers/m <sup>2</sup>	Spike length (cm)	No of grains/spike	1000 grain weight (gm)	Maturity duration (days)	Yellow rust incidence (%)	Lodging %
T1- Farmers practice (PBW 509 )	201	8.0	34.2	34.10	135	3-5	3
T2- DBW 173	209	10.0	38.0	38.80	135	Nil	Nil

**Result :** 1. DBW 173 variety gave maximum yield 39.80 and net return Rs.54605.0 /ha and also proved resistant against yellow rust. There were no lodging seen during the crop period..

2. Variety DBW 173 gave 12.42 % more yield in comparison to PBW 509

### Farmers Reaction :

1. The Medium grain size of DBW 173 led to better price in the market.
2. The straw quality was best.



## VARIETAL EVALUATION

**Problem definition: Lower productivity and profitability of Basmati (PB 1)**

**Technology Assessed : Varietal Evaluation of Basmati varieties PB 1728**

An On Farm Trial was conducted in sandy loam soil under irrigated condition for the evaluation of high yielding and disease resistant varieties of Pusa Basmati 1728 at three locations in Rice-wheat cropping system during Kharif 2021. The variety Pusa Basmati 1728 recorded highest yield of (43.50 q/ha) . PB 1728 matured in 130-135 days while PB 1 took 145 days for maturity. PB 1728 has Medium tall plants height but found slightly lodging, while 5 -10 % lodging was recorded in PB 1 . PB1728 is resistant for neck blast and leaf blast..

**Table : Evaluation of high yielding variety of Paddy**

Technology Option	Yield (qt./ha)	% increase in yield	Net income (Rs/ha)	B:C Ratio
T1- Farmers practice - Pusa Basmati 1	36.10	---	42434.0	2.69
T2- Pusa Basmati 1728	44.25	22.57	57659.0	3.30

Date of Transplanting : 8.07.2021

DOH : 30 Oct. 2021

**Observation Recorded :**

Technology Option	Tillers/hill	No of Panicles /Sqm	Lodging %	Disease incidence (%)		Maturity duration (days)	Plant height (cm)	Head Rice Recovery (%)
				Bakane	Sheath Blight			
T1- Farmers practice - Pusa Basmati 1	10-15	240	5	6	13	145	125	43
T2- Pusa Basmati 1728	15-20	265		--		135	125	45-50

**Result :**

1. The PB 1728 variety gave 22.57 % more yield in comparison to PB 1
2. PB 1728 matured in 135 days where as PB 1 took 140-145 days for maturity.
3. The net return from PB 1728 was higher (Rs. 57659.0/ha).

**Farmers Reaction :**

1. Due to shorter duration farmers like PB 1728 in comparison to PB1.
2. The higher rice recovery was observed (45-50 % )in PB 1728





## INTEGRATED NUTRIENT MANAGEMENT

**Problem definition:** Lower productivity and profitability in Wheat imbalance application of nutrients

**Technology Assessed or Refined (as the case may be):** Soil health card based nutrient management in Wheat

KVK, Muzaffarnagar I conducted on-farm trial to find out **Soil health card based nutrient management in Wheat** enhance the productivity. The **assessed or refined (as the case may be) Field specific soil test based nutrient application 13.24 %** increase in yield.

Table Effect of field Soil health card based nutrient management in with close observation as given,

<i>Technology Option</i>	<i>No. of trials</i>	<i>Gross cost Rs./ha</i>	<i>Net return Rs./ha</i>	<i>Wheat Yield q/ha</i>	<i>Increase in Yield (%)</i>	<i>B:C Ratio</i>
No soil test based nutrient application (Farmers Practice apply 125 kg DAP+350 kg Urea+25 Kg MOP+ 5 kg ZnSo4)	05	32500	52525	43.00	--	2.62
Soil test based nutrient application applied 125Kg DAP+250 kg Urea125kg MOP by farmer and provided in demo Mono Zinc 12.5 kg+2.5kg Boron+5kg Sulphur 80WP		34600	61680	48.75	13.24	2.78

**Result :**

1. Additional cost of input along with guidance Rs 2100 provided more net return Rs. 9158/ha.
2. Sale price of wheat Rs. 1975/q and grown in irrigated timely sown wheat.
3. Demonstration increases 13.21% yield with B:C ratio 2.78.





## NUTRIENT MANAGEMENT

**Problem definition:** Lower productivity and profitability in Sugarcane imbalance application of nutrients

**Technology Assessed or Refined (as the case may be):** Site specific nutrient management in Sugarcane

KVK, Muzaffarnagar I conducted on-farm trial to find out Site specific nutrient management practice to enhance the Sugarcane productivity. The **assessed or refined (as the case may be) Field specific soil test based nutrient application 14.71 %** increase in yield.

**Table Effect of field specific soil test based nutrient application in sugarcane with close observation as given,**

Technology Option	No. of trials	Gross cost Rs./ha	Net return Rs./ha	Sugarcane Yield q/ha	Increase in Yield (%)	B:C Ratio
No soil test based nutrient application (Farmers Practice apply 125 kg DAP+450 kg Urea+25 Kg MOP+ 5 kg ZnSo4)	05	108840	163185	837	--	2.50
Soil test based nutrient application applied 125Kg DAP+315 kg Urea125kg MOP by farmer and provided in demoFeso4 25kg+Mono Zinc 12.5 kg+5kg Boron+5kg Sulphur 80WP		112340	199660	960	14.71	2.78

### Result :

1. Additional cost of input along with guidance Rs 3500 provided more net return Rs. 35475/ha.
2. Sale price of sugarcane Rs. 325/q and variety used Co-o238
3. Demonstration increases 14.71% yield with B:C ratio 4.51.



## DRUDGERY REDUCTION

**Problem definition:** High drudgery and low efficiency of farm women during cleaning of wheat by traditional sieve

**Technology Assessed :** Assessment of hanging Sieve for drudgery reduction and efficiency enhancement of farm women

Women are a vital part of their family, district as well as Indian economy. Over the years, there is a gradual realization of the key role of women in agricultural development and their vital contribution in the field of agriculture, Aside from raising children, women are expected to work in kitchen, maintain the homestead and assist in crop and animal production, 48 per cent of India’s self-employed farmers are women, Drudgery can be defined by its time-consuming, repetitive and arduous nature,.Pain is the indicator of discomfort.The perceived discomfort was recorded in terms of pain felt in different parts of body. For Many traditional postharvest activities like threshing and winnowing, can be described as drudgery. Cleaning grains manually, use human energy in two ways: they are arduous and time-consuming. Reducing drudgery in difficult activities is more important than saving time. For instance, women often prefer doing activities in standing position as it helps them in moving around.

Technical Observation	Farmers Practice	Hanging Seive	Percentage Increase
Quantity cleaned(kg/Hr)	57 Kg	121 kg	24.1
Heart Rate –at rest (after one hr cleaning)	72 90	72 78	17
Energy Expenditure (0.15xHR-8.72)	0.15x90- 8.72=4.78	0.15x78-8.72=2.68	1.8 times more Energy Expenditure in framers practice
Frequency of Postural change	4-5 times	--	

**‘Farmers Reaction :**

- 1 .Easy in use
2. Time saving /time efficient
- 3 .Less Fatigue
4. 100 percent Women liked hanging sieve over hand sieve,as maximum work output was observed by using the hanging grain cleaner.



## II FRONTLINE DEMONSTRATION

### a. List of technologies demonstrated during previous year ( 2019-20 )

S. No.	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.	Varietal improvement- Lentil	PL 8	--do--	17	55	46.00
2.	Varietal Improvement of Gram	RVG 202	---do ----	14	110	95.00

### b. Details of CFLDs implemented during 2021 under NFSM

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
<b>Pulses</b>										
1.	Gram	Varietal evaluation	RVG 202	Rabi 2020-21	10.0	10.0			25	--
2.	Lentil	Varietal evaluation	L 4717	Rabi 2020-21	10.0	10.0			25	--
3.	Moong	Varietal evaluation	Virat	Zaid 2021	10.0	10.0			25	--
4.	Urd	Varietal evaluation	PU 31	Zaid 2021	10.0	10.0			25	--
5.	Urd	Varietal evaluation	Indra Urd-1	Kharif 2021	10.0	10.0			25	--
<b>Oilseeds</b>										
6	Mustard	Varietal evaluation	RH 749	Rabi 2020-21	20.0	20.0			50	-

### c. 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					
<b>Pulses</b>											
Gram RVG 202	Rabi 2020-21	Irrigated	Sandy loam	M	M	L	Paddy	15 Oct – 10 Nov 2020	15-30 March 2021	--	--
Lentil L 4717	Rabi 2020 .21	Irrigated	Sandy loam	M	M	L	Paddy	20 Oct -15 Nov 2020	15-30 March 2021	--	--
Mung bean	Zaid 2021	Irrigated	Sandy Loam	M	M	M	Mustard	12-30 March 2021	Up to 5 <sup>th</sup> June 2021	--	--

Urd	Zaid 2021	Irrigated	Sandy Loam	M	M	M	Mustard	12-30 March	16-30 June 2021	--	--
Urd	Kharif 2021	Irrigated	Sandy Loam	M	M	M	Jowar	15-31 July 2021	16-30 Oct 2021	--	--
<b>Oilseeds</b>											
Mustard RH 749	Rabi 2020-21	Irrigated	Sandy loam	M	M	L	Paddy	01-20 Oct 2020	15-30 March 2021	-	-

### Technical Feedback on the demonstrated technologies

S.No	Feed Back
	<b>Pulses – Lentil ( L 4717 )</b>
1.	Maturity Stage is 143 Days
2.	Low water requirement.
	<b>Pulses- Gram (RVG 202 )</b>
1	No occurrence of wilt
2	Low water Requirement crop
	<b>Pulses- Moong (Virat)</b>
1	It is resistant to Yellow mosaic virus.
2	20-25 No. of pods per plant were found in this variety.
3	It gave 7.20 q/hectare yield average.
4	Its mature in 65- 70 days.
	<b>Pulses- Urd (PU31)</b>
1	It is resistant to Yellow mosaic virus.
2	20-25 No. of pods per plant were found in this variety.
3	It gave 8.7 q/ hectare yield average.
4	It matures in 90-100 days.
	<b>Pulses- Urd( Indra Urd 1)</b>
1.	It is susceptible to Yellow mosaic virus.
2.	20-25 No. of pods per plant were found in this variety.
3.	It gave 8.3 q/ hectare yield average.
4.	It matures in 90-100 days .
	<b>Oilseed Mustard (RH 749)</b>
1	No occurrence of Disease
2	Low water Requirement crop

### Farmers' reactions on specific technologies

S. No	Feed Back
	<b>Pulses – Green gram (pant mung 5)</b>
	<b>Pulses – Lentil (L 4717)</b>
1.	Due to no rain during Nov. & Dec., The crop growth was good.
2.	25 % of crop damaged by Niel gai
3.	Yield increased 38.46 % in comparison to local variety .
	<b>Pulses – Gram (RVG 202)</b>
1.	Yield increased 29.136 % in comparison to local variety .
2.	Due to no rain during Nov. & Dec., The crop growth was good.
3.	No symptoms of any disease were shown
	<b>Pulses- Moong (Virat)</b>
1.	It is resistant to Yellow mosaic virus.
2.	The crop matures in short period
3.	It is very suitable and beneficial with sugarcane intercropping
	<b>Pulses- Urd (PU31)</b>
1.	It is resistant to Yellow mosaic virus.
2.	It is very beneficial for intercropping with sugarcane crop in summer season
3.	It is not a tall variety
4.	It matures in 90-100 days,
	<b>Pulses- Urd( Indra Urd 1)</b>
1.	Indra urd 1 is susceptible to Yellow mosaic virus.
2.	It is not much tall variety.
3.	The crop matured in 90 -100 days
4.	Crop harvested before timely sowing of wheat crop f in this region.
	<b>Oilseed Mustard (RH 749 )</b>
1.	Yield increased 24.50 % in comparison to local variety .
2.	Bold grain size led to better price in the market.
3.	No occurrence of Disease

### Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1.	Field days - Lentil	01	--	40	
2.	Field days -Gram	01	--	40	--
3.	Farmers Training for conducting CFLD	01	--	27	
4.	Field Visit - Mung	02	2.4.2021 & 23.4.21	9	
5.	Field Visit- Urd (PU 31)	02	17.4.21 & 27.5.21	11	
6.	Field Visit- Urd (Indra Urd-1)	02	29.7.21 & 14.9.21	14	

### Performance of Frontline Demonstrations :

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	Avg										
Lentil Rabi 2020-21	Promotion of Pulses	HYV seed	L 4717	25	10.0	13.50	9.90	11.70	8.45	38.46	15800	59670	43870	3.77	16500	43095	26595	2.91
Gram Rabi 2020-21	Varietal evaluation	HYV seed	RVG 202	25	10.0	19.50	16.4	17.95	13.90	29.13	17500	91545	74045	5.23	18400	70890	52490	3.85
Mung Zaid -2021	Varietal, ICM	Seed , insecticides & fungicides	Virat	25	10.0	8.40	6.0	7.20	5.05	42.57	13500.0	51811.0	38311.0	3.83	14000.0	36339.8	22339.0	2.59
Urd Zaid -2021	<b>Varietal evaluation</b>	Seed , insecticides & fungicides	Pant Urd 31	25	10.0	10.0	7.4	8.7	6.3	38.09	13600.0	52200.0	38600.0	3.83	14550.0	37800.0	23250.0	2.59
Urd Kharif -2021	<b>Varietal evaluation</b>	Seed	Indra urd 1	25	10.0	9.6	7.0	8.3	5.9	40.67	14500.0	49800.0	35300.0	3.43	15000.0	35400.0	20400.0	2.36
Mustard 2020-21	Varietal evaluation	HYV seed	RH 749	50	20.0	20.50	17.1	18.80	15.10	24.50	16500.0	87420.0	70920	5.29	17600	70125	52615	3.98

### Performance of technology

<b>Lentil</b>	<b>L4717</b>	<b>local</b>
Maturity Duration (days)	135 days	Above 135 days
Disease incidence	Nil	3.0 %
1000 grain weight	25-30 gm	22-25 gm
<b>Gram</b>	<b>RVG 202</b>	<b>local</b>
Maturity Duration (days)	140 days	145 days and above
wilt	Nil	6.0 %
1000 grain weight	28-35 gm	25-30 gm
<b>Mung</b>	<b>Virat</b>	<b>Check variety</b>
Maturity Duration (days)	65-70	70 and above
Disease occurrence	Nil	Yellow Mosaic 2-5%
Lodging tendency	Nil	2 - 3%
<b>Urd</b>	<b>Pant Urd 31</b>	<b>Check variety</b>
Maturity Duration (days)	90-100	100 -110 days
Disease occurrence	2.0 %	15 %
Lodging tendency	1.5 %	5%
<b>Urd</b>	<b>Indra Urd 1</b>	<b>Check variety</b>
Maturity Duration (days)	95-100	100 -110 days
Disease occurrence	25 %	25-30 %



Lodging tendency	Nil	5%
<b>Mustard</b>	RH 749	
Maturity Duration (days)	145 days	145 days and above
Disease incidence	Nil	



**Lentil Variety L 4717**

**Gram variety RVG 202**

**Mustard Variety RH 749**

## II. FRONTLINE DEMONSTRATION

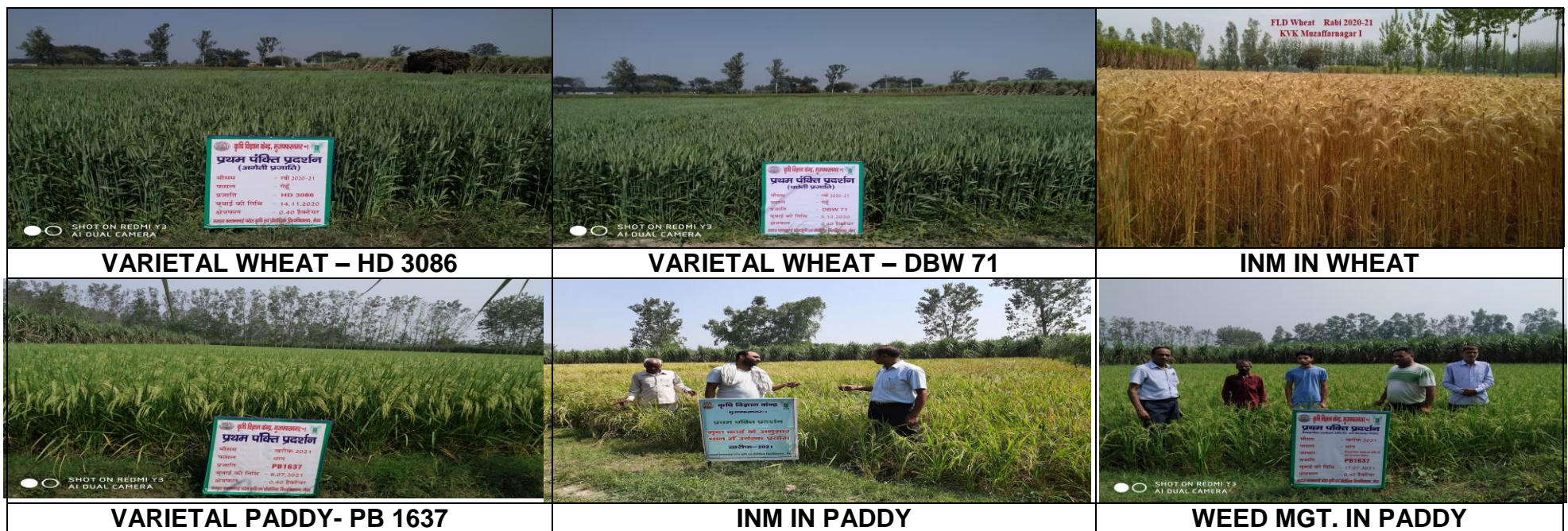
### FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)			Check	% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo					Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
<b>Cereals</b>																			
Wheat	Varietal	HD 3086 in Timly sown condition	9	3.6	44.10	38.00	41.05	35.00	17.28	No of Tillers/sqm 212 Grains/spike- 43 Lodging % - nil	No of Tillers/sqm 206 Grains/spike- 37 Lodging % - 3-5	24000	81073	57073	3.37	24500	89125.0	44625.0	2.82
Wheat	Varietal	DBW 71 in Late sown condition	8	3.2	39.40	35.00	37.2	34.00	9.41	No of Tillers/sqm 207 Grains/spike- 30 Lodging % - nil	No of Tillers/sqm 204 Grains/spike- 29 Lodging % - 3.0	24600.0	73470.0	48870.0	2.98	24500	87150.0	42650.0	2.74



Wheat	INM	Soil health card based nutrient management	10	4.0	47.8	46.4	47.38	43.15	9.83	-	-	33288	93585	60297	2.81	31788	85281	53433	2.68
Paddy	Varietal	HYV PB 1637	8	3.2			42.85	35.40	21.00	-	-	23000	80043	57043	3.48	22000	66127	44127	3.00
Paddy	Weed Mgt.	Weed Control through Bispariback Sodium 10SC	10	4.0			41.97	36.00	16.59	-	-	24000	78399	54399	3.26	20000	67248	42248	2.68
Paddy	INM	Soil health card based nutrient management	15	6.0			40.83	37.80	8.05	-	-	35675	104135	68460	2.92	33800	96390	62590	2.86

## FLD PHOTOGRAPH



FLD on Livestock : Nil

FLD on Fisheries : Nil

FLD on Other enterprises : Nil

FLD on Women Empowerment : Nil

FLD on Farm Implements and Machinery: Nil

## FLD on Other Enterprise: Kitchen Gardening

Category and 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	Household food security by kitchen gardening and nutrition gardening	200sq mt well planned Kitchen Garden	10	10	445	20	202	Availability of fresh vegetables	Very Less Availability	380	1350.00	970.00	33:1	75.00	550.00	475.00	7:1

## FLD on Other Enterprises : Making of Tomato puree/sauce to avoid post harvest losses.

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Value Addition	Making of Tomato puree/sauce to avoid post harvest losses.	10	10	shelf life of Puree/Sauce 365days	shelf life of Raw Tomato 2-3 Days	--	Availability of tomato in preserved form 365 days	Availability of tomato seasonal	120.0	210.0	90.0	2:1	00	00	00	00

### Farmers Reaction:

Post harvest losses are major concern, especially in fruits and vegetables. To control the post harvest losses and low price of the crop at the time of harvesting, value addition of produce and increasing the shelf life is very beneficial for farmers as well as farm women. Farm women liked this practice very much and saved a good amount.





**FLD on Demonstration details on crop hybrids** (*Details of Hybrid FLDs implemented during 2021*)

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average						
Vegetable crop													
Frenchbean	High Yielding Variety	Falguni	5	0.5	98.6	88.5	93.5	78.5	19.10	127500	275500	145000	1:1.87
Chilli	High Yielding Variety	Soldier	5	1.00	287.5	277.2	283.35	249.20	13.30	238500	451760	213260	1:1.80

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



**FLD on Falguni variety of French**



**FLD on Solder variety of Chilli**

### 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
<b>I Crop Production</b>										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production	07	130	--	130	10	--	10	140	--	140
Nursery management										
<b>Total</b>	<b>07</b>	<b>130</b>	<b>--</b>	<b>130</b>	<b>10</b>	<b>--</b>	<b>10</b>	<b>140</b>	<b>--</b>	<b>140</b>
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high valume crops	01	17	01	18	02	--	02	19	01	20
Off-season vegetables										
Nursery raising	01	16	01	17	03	--	03	19	01	20
<b>Total (a)</b>	<b>02</b>	<b>33</b>	<b>02</b>	<b>35</b>	<b>05</b>	<b>--</b>	<b>05</b>	<b>38</b>	<b>02</b>	<b>40</b>
<b>b) Fruits</b>										
Rejuvenation of old orchards	01	18	01	19	01	--	01	19	01	20
Export potential fruits										
Micro irrigation systems of orchards	01	17	--	17	03	--	03	40	--	40
Plant propagation techniques										
Others (pl specify)										
<b>Total (b)</b>	<b>02</b>	<b>35</b>	<b>01</b>	<b>36</b>	<b>04</b>	<b>--</b>	<b>04</b>	<b>39</b>	<b>01</b>	<b>40</b>
<b>e) Tuber crops</b>										
Production and Management technology	01	20	--	20	--	--	--	20	--	20
Processing and value addition										
Others (pl specify)										
<b>Total (e)</b>	<b>01</b>	<b>20</b>	<b>--</b>	<b>20</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>20</b>	<b>--</b>	<b>20</b>
<b>f) Spices</b>										
Production and Management technology	01	17	--	17	03	--	03	20	--	20
Processing and value addition										
Others (pl specify)										
<b>Total (f)</b>	<b>01</b>	<b>17</b>	<b>--</b>	<b>17</b>	<b>03</b>	<b>--</b>	<b>03</b>	<b>20</b>	<b>--</b>	<b>20</b>
<b>GT (a-g)</b>	<b>6</b>	<b>105</b>	<b>3</b>	<b>108</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>117</b>	<b>3</b>	<b>120</b>
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	01	20	--	20	--	--	--	20	--	20
Integrated water management										
Integrated Nutrient Management	02	40	--	40	--	--	--	40	--	40
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops	01	20	--	20	--	--	--	20	--	20
<b>Total</b>	<b>04</b>	<b>80</b>	<b>--</b>	<b>40</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>80</b>	<b>--</b>	<b>80</b>
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	01	--	18	18	--	02	02	--	20	20
Design and development of low/minimum cost diet	01	--	18	18	--	02	02	--	20	20
Value addition	02	--	34	34	--	06	06	--	40	40
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care	01	--	17	17	--	03	03	--	20	20
Others (pl specify)	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>05</b>	<b>--</b>	<b>87</b>	<b>87</b>	<b>--</b>	<b>13</b>	<b>13</b>	<b>--</b>	<b>100</b>	<b>100</b>
<b>VII Plant Protection</b>										
Integrated Pest Management	01	18	--	18	02	--	02	20	--	20

Integrated Disease Management	01	20	--	20	--	--	--	20	--	20
<b>Total</b>	<b>02</b>	<b>38</b>	<b>--</b>	<b>38</b>	<b>02</b>	<b>--</b>	<b>02</b>	<b>40</b>	<b>--</b>	<b>40</b>
<b>GRAND TOTAL</b>	<b>24</b>	<b>353</b>	<b>90</b>	<b>403</b>	<b>24</b>	<b>13</b>	<b>37</b>	<b>377</b>	<b>103</b>	<b>480</b>

### 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
<b>I Crop Production</b>										
Seed production	07	125	--	125	15	--	15	140	--	140
<b>Total</b>	<b>07</b>	<b>125</b>	<b>--</b>	<b>125</b>	<b>15</b>	<b>--</b>	<b>15</b>	<b>140</b>	<b>--</b>	<b>140</b>
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high valume crops	01	18	--	18	02	--	02	20	--	20
Off-season vegetables	01	17	--	17	03	--	03	20	--	20
Nursery raising	01	18	--	18	02	--	02	20	--	20
Protective cultivation	01	20	--	20	--	--	--	20	--	20
Others (pl specify)										
<b>Total (a)</b>	<b>4</b>	<b>73</b>	<b>0</b>	<b>73</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>80</b>	<b>0</b>	<b>80</b>
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards	01	20	--	20	--	--	--	20	--	20
Cultivation of Fruit	01	16	--	16	04	--	04	20	--	20
Management of young plants/orchards										
Rejuvenation of old orchards	01	17	--	17	03	--	03	20	--	20
Export potential fruits										
Micro irrigation systems of orchards	01	18	--	18	02	--	02	20	--	20
Plant propagation techniques										
Others (pl specify)										
<b>Total (b)</b>	<b>4</b>	<b>71</b>	<b>0</b>	<b>71</b>	<b>9</b>	<b>0</b>	<b>9</b>	<b>80</b>	<b>0</b>	<b>80</b>
<b>e) Tuber crops</b>										
Production and Management technology	01	18	-	18	02	--	02	20	--	20
Processing and value addition										
Others (pl specify)										
<b>Total (e)</b>	<b>01</b>	<b>18</b>	<b>-</b>	<b>18</b>	<b>02</b>	<b>--</b>	<b>02</b>	<b>20</b>	<b>--</b>	<b>20</b>
<b>f) Spices</b>										
Production and Management technology	01	16	02	18	02	--	02	18	02	20
Processing and value addition										
Others (pl specify)										
<b>Total (f)</b>	<b>01</b>	<b>16</b>	<b>02</b>	<b>18</b>	<b>02</b>	<b>--</b>	<b>02</b>	<b>18</b>	<b>02</b>	<b>20</b>
<b>GT (a-g)</b>	<b>10</b>	<b>176</b>	<b>02</b>	<b>178</b>	<b>22</b>	<b>0</b>	<b>22</b>	<b>200</b>	<b>2</b>	<b>200</b>
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	02	40	--	40	--	--	--	40	--	40
Integrated water management										
Integrated Nutrient Management	03	60	--	60	--	--	--	60	--	60
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops	02	40	--	40	--	--	--	40	--	40
Nutrient Use Efficiency										
Balance use of fertilizers	01	20	--	20	--	--	--	20	--	20
Soil and Water Testing										
Others (pl specify)	<b>08</b>	<b>160</b>	<b>--</b>	<b>160</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>160</b>	<b>--</b>	<b>160</b>
<b>Total</b>										
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	01	--	19	19	--	01	01	--	20	20
Design and development of low/minimum cost diet	01	--	17	17	--	03	03	--	20	20
Minimization of nutrient loss in processing										
Processing and cooking	01	--	18	18	--	02	02	--	20	20
Gender mainstreaming through SHGs	01	--	17	17	--	03	03	--	20	20
Storage loss minimization techniques	01	-	16	16	--	04	04	--	20	20

Value addition	01	--	18	18	--	02	02	--	20	20
Location specific drudgery reduction technologies	02	--	36	36	--	04	04	--	40	40
Rural Crafts										
Women and child care	01	--	18	18	--	02	02	--	20	20
Others (pl specify) Water Saving Tech	01	--	19	19	--	01	01	--	20	20
<b>Total</b>	<b>10</b>	<b>--</b>	<b>178</b>	<b>178</b>	<b>--</b>	<b>22</b>	<b>22</b>	<b>--</b>	<b>200</b>	<b>200</b>
<b>VII Plant Protection</b>										
Integrated Pest Management	01	20	--	20	--	--	--	20	--	20
<b>Total</b>	<b>01</b>	<b>20</b>	<b>--</b>	<b>20</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>20</b>	<b>--</b>	<b>20</b>
<b>GRAND TOTAL</b>	<b>36</b>	<b>481</b>	<b>180</b>	<b>661</b>	<b>37</b>	<b>22</b>	<b>59</b>	<b>520</b>	<b>200</b>	<b>720</b>

### 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
<b>I Crop Production</b>										
Seed production	14	255	--	255	25	--	25	280	--	280
<b>Total</b>	<b>14</b>	<b>255</b>	<b>--</b>	<b>255</b>	<b>25</b>	<b>--</b>	<b>25</b>	<b>280</b>	<b>--</b>	<b>280</b>
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high valume crops	02	35	01	36	4	--	04	39	01	40
Off-season vegetables	01	17	--	17	03	--	03	20	--	20
Nursery raising	02	34	02	36	04	--	04	38	02	40
Protective cultivation	02	36	01	37	03	--	03	39	01	40
Others (pl specify)										
<b>Total (a)</b>	<b>7</b>	<b>122</b>	<b>4</b>	<b>126</b>	<b>14</b>	<b>0</b>	<b>14</b>	<b>136</b>	<b>4</b>	<b>140</b>
<b>b) Fruits</b>										
Layout and Management of Orchards	01	20	--	20	--	--	--	20	--	20
Cultivation of Fruit	01	16	--	16	04	--	04	20	--	20
Rejuvenation of old orchards	02	35	01	36	04	--	04	40	--	40
Export potential fruits										
Micro irrigation systems of orchards	01	17	--	17	03	--	03	20	--	20
<b>Total (b)</b>	<b>5</b>	<b>89</b>	<b>01</b>	<b>90</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>100</b>	<b>0</b>	<b>100</b>
<b>e) Tuber crops</b>										
Production and Management technology	02	38	--	38	02	--	02	40	--	40
<b>Total (e)</b>	<b>02</b>	<b>38</b>	<b>--</b>	<b>38</b>	<b>02</b>	<b>--</b>	<b>02</b>	<b>40</b>	<b>--</b>	<b>40</b>
<b>f) Spices</b>										
Production and Management technology	02	33	02	35	05	--	05	38	02	40
<b>Total (f)</b>	<b>02</b>	<b>33</b>	<b>02</b>	<b>35</b>	<b>05</b>	<b>--</b>	<b>05</b>	<b>38</b>	<b>02</b>	<b>40</b>
<b>GT (a-g)</b>	<b>16</b>	<b>282</b>	<b>7</b>	<b>289</b>	<b>31</b>	<b>0</b>	<b>31</b>	<b>314</b>	<b>6</b>	<b>320</b>
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	03	60	--	60	--	--	--	60	--	60
Integrated water management										
Integrated Nutrient Management	05	100	--	100	--	--	--	100	--	100
Micro nutrient deficiency in crops	03	60	--	60	--	--	--	60	--	60
Balance use of fertilizers	01	20	--	20	--	--	--	20	--	20
<b>Total</b>	<b>12</b>	<b>240</b>	<b>--</b>	<b>240</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>240</b>	<b>--</b>	<b>240</b>
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	02	--	37	37	--	03	03	--	40	40
Design and development of low/minimum cost diet	01	--	17	17	--	03	03	--	20	20
Designing and development for high nutrient efficiency diet	01	--	18	18	--	02	02	--	20	20
Minimization of nutrient loss in processing										
Processing and cooking	01	--	18	18	--	02	02	--	20	20
Gender mainstreaming through SHGs	01	--	17	17	--	03	03	--	20	20
Storage loss minimization techniques	01	--	16	16	--	04	04	--	20	20
Value addition	03	--	52	52	--	08	08	--	60	60
Location specific drudgery reduction technologies	02	--	36	36	--	04	04	--	40	40
Rural Crafts										

Women and child care	02	--	35	35	--	05	05	--	40	40
Others (pl specify)	01	--	19	19	-	01	01	--	20	20
<b>Total</b>	<b>15</b>	<b>--</b>	<b>265</b>	<b>265</b>	<b>-</b>	<b>35</b>	<b>35</b>	<b>--</b>	<b>300</b>	<b>300</b>
<b>VII Plant Protection</b>										
Integrated Pest Management	02	38	--	38	02	--	02	40	--	40
Integrated Disease Management	01	20	--	20	--	--	--	20	--	20
<b>Total</b>	<b>03</b>	<b>58</b>	<b>--</b>	<b>58</b>	<b>02</b>	<b>--</b>	<b>02</b>	<b>60</b>	<b>--</b>	<b>60</b>
<b>GRAND TOTAL</b>	<b>60</b>	<b>834</b>	<b>270</b>	<b>1064</b>	<b>61</b>	<b>35</b>	<b>96</b>	<b>897</b>	<b>303</b>	<b>1200</b>

#### 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
Seed production	01	14	--	14	01	--	01	15	--	15
Bee-keeping	04	68	--	68	12	--	12	80	--	80
Post Harvest Technology	01	--	09	09	--	06	06	--	15	15
Tailoring and Stitching	01	--	08	08	--	07	07	--	15	15
Rural Crafts	02	--	19	19	--	11	11	--	30	30
<b>TOTAL</b>	<b>09</b>	<b>82</b>	<b>36</b>	<b>118</b>	<b>13</b>	<b>24</b>	<b>37</b>	<b>95</b>	<b>60</b>	<b>135</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Mushroom Production										
Bee-keeping	04	60	06	66	04	04	08	70	10	80
Sericulture										
<b>TOTAL</b>	<b>04</b>	<b>60</b>	<b>06</b>	<b>66</b>	<b>04</b>	<b>04</b>	<b>08</b>	<b>70</b>	<b>10</b>	<b>80</b>

#### 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
Seed production	01	14	--	14	01	--	01	15	--	15
Bee-keeping	08	134	06	140	16	04	20	150	10	160
Post Harvest Technology	01	--	09	09	--	06	06	--	15	15
Tailoring and Stitching	01	--	08	08	--	07	07	--	15	15
Rural Crafts	02	--	19	19	--	11	11	--	30	30
<b>TOTAL</b>	<b>13</b>	<b>148</b>	<b>42</b>	<b>190</b>	<b>17</b>	<b>28</b>	<b>45</b>	<b>165</b>	<b>70</b>	<b>235</b>

#### 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
Rejuvenation of old orchards	01	15	--	15	--	--	--	15	--	15
Protected cultivation technology										
Production and use of organic inputs	01	15	--	15	--	--	--	15	--	15
Women and Child care	01	--	07	07	--	03	03	-	10	10
Low cost and nutrient efficient diet designing	02	--	15	15	--	05	05	--	20	20
Household food security	01	--	06	06	--	04	04	--	10	10
Any other (pl.specify)										
<b>TOTAL</b>	<b>06</b>	<b>30</b>	<b>28</b>	<b>58</b>	<b>--</b>	<b>12</b>	<b>12</b>	<b>30</b>	<b>80</b>	<b>110</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	04	40	--	40	--	--	--	40	--	40



Integrated Pest Management	01	10	--	10	--	--	--	10	--	10
Integrated Nutrient management	04	40	--	40	--	--	--	40	--	40
Rejuvenation of old orchards	01	15	--	15	--	--	--	15	--	15
Protected cultivation technology	01	15	--	15	--	--	--	15	--	15
<b>TOTAL</b>	<b>11</b>	<b>120</b>	<b>--</b>	<b>120</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>120</b>	<b>--</b>	<b>120</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	04	40	--	40	--	--	--	40	--	40
Integrated Pest Management	01	10	--	10	--	--	--	10	--	10
Integrated Nutrient management	04	40	--	40	--	--	--	40	--	40
Rejuvenation of old orchards	02	30	--	30	--	--	--	30	--	30
Protected cultivation technology	01	15	--	15	--	--	--	15	--	15
Production and use of organic inputs	01	15	--	15	--	--	--	15	--	15
Women and Child care	01	--	07	07	--	03	03	--	10	10
Low cost and nutrient efficient diet designing	02	--	15	15	--	05	05	--	20	20
Group Dynamics and farmers organization	01	--	06	06	--	04	04	--	10	10
<b>TOTAL</b>	<b>17</b>	<b>150</b>	<b>28</b>	<b>178</b>	<b>--</b>	<b>12</b>	<b>12</b>	<b>150</b>	<b>40</b>	<b>190</b>

**Table. Sponsored training programmes :**

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Crop production and management</b>										
Increasing production and productivity of crops	06	120	--	120	--	--	--	120	--	120
<b>Production and value addition</b>										
Fruit Plants	01	50	--	50	--	--	--	50	--	50
Soil health and fertility management	03	30	--	30	--	--	--	30	--	30
Production of Inputs at site	02	50	--	50	--	--	--	50	--	50
<b>Total</b>	<b>12</b>	<b>250</b>	<b>--</b>	<b>250</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>250</b>	<b>--</b>	<b>250</b>
<b>Livestock and fisheries</b>										
Livestock production and management	01	23	02	25	--	--	--	23	02	25
<b>Total</b>	<b>01</b>	<b>23</b>	<b>02</b>	<b>25</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>23</b>	<b>02</b>	<b>25</b>
<b>GRAND TOTAL</b>	<b>13</b>	<b>273</b>	<b>02</b>	<b>275</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>273</b>	<b>02</b>	<b>275</b>

**Name of sponsoring agencies involved**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Crop production and management</b>										
Organic farming/ Natural farming	02	40	--	40	--	--	--	40	--	40
<b>Total</b>	<b>02</b>	<b>40</b>	<b>--</b>	<b>40</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>40</b>	<b>--</b>	<b>40</b>
<b>Grand Total</b>	<b>02</b>	<b>40</b>	<b>--</b>	<b>40</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>40</b>	<b>--</b>	<b>40</b>

#### IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	389	389	--	389
Diagnostic visits	67	263	--	263
Field Day	02	55	--	55
Group discussions	03	130	20	150
Kisan Ghosthi	19	1368	10	1378
Film Show /Radio Talk	--	--	--	--
Self -help groups	25	424	--	424
Kisan Mela	7	1700	80	1780
Exhibition	01	200	30	230
Scientists' visit to farmers field	162	1000	72	1072
Plant/animal health camps	--	--	--	--
Farm Science Club Meeting	--	--	--	--
Ex-trainees Sammelan	---	--	--	--
Farmers' seminar/workshop	02	100	10	110
Method Demonstrations	--	--	--	--
Celebration of important days	03	250	10	260
Special day celebration	05	230	20	250
Exposure visits	--	--	--	--
Others (pl. specify)	--	--	--	--
Farmers Visit to KVK	532	502	30	532
<b>Total</b>	<b>1217</b>	<b>6611</b>	<b>282</b>	<b>6893</b>

#### Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	--
Extension Literature	--
News paper coverage	06
Popular articles	--
Radio Talks	06
TV Talks	--
Animal health camps (Number of animals treated)	--
Others (pl. specify)- Book Chapter/Book /Training manual	

#### Mobile Advisory Services

No. of KVKs	No. of SMSs sent	No. of farmers benefited
KVK Baghra Muzaffarnagar	05	250

# EXTENSION ACTIVITIES



International Womens Day – 8<sup>th</sup> March



FTT Training (16-18 March 2021)



International Water Day – 22 March 2021



Kisan Kalyan Mission 24.03.2021



Farmers Scientist Interaction-ATMA



Jan Interstate Farmers Training (7 Jan 2021)



Skill India Training on Poultry Farming

**तिलहन की फसल से लाभ कमाएं किसान**  
अक्टूबर में करें बुवाई, सिंचाई के साथ-साथ खाद की भी रहती है कम लागत

संबंधित न्यूज एजेंसी

**धौलीचूर्या:** तिलहनी फसलों के उत्पादन में भारत चौथा स्थान रखता है। देश में तिलहन के कुल उत्पादन का 19 प्रतिशत क्षेत्रफल है, जबकि उत्पादन में मात्र 2.7 प्रतिशत का योगदान है। विश्व के कुल सरसों उत्पादन में भारत का 11 प्रतिशत हिस्सा है। कुल तिलहन उत्पादन में सरसों का 20.22 प्रतिशत हिस्सेदारी है। कृषि विज्ञान केंद्र मुजफ्फरनगर प्रथम एवं द्वितीय के प्राध्यापक एवं सहायक प्राध्यापक डॉ. पीके सिंह का कहना है कि सरसों की खेती में कम लागत एवं अधिक मुफ्त के कारण इसकी क्षेत्रफल में लगातार वृद्धि हो रही है। देश में सरसों की खेती का प्रसार एकत्रित एवं वितरित क्षेत्रफल के रूप में किया जा रहा है।

**बुवाई का समय एवं तरीका**  
सरसों की बुवाई के लिए 26.28 डिग्री सेल्सियस तापमान उपयुक्त रहता है। परंपरा काल व अधिक लाभ के लिए बुवाई अक्टूबर के तीसरे सप्ताह तक अक्टूबर पूर्व देनी चाहिए। सरसों की बुवाई कतारों में करनी चाहिए। बीज एवं जलोढ़ को एक साथ मिश्रित बुवाई न करें। औसत सरसों लिए बीज-दर-एकड़ 30 किग्रा प्रति हेक्टर है। अक्टूबर-दिसंबर के बीच जलोढ़ को 7-1 किलो की दरों पर प्रयोग करें।

**सिंचाई एवं खाद**  
सरसों की सिंचाई के लिए नहरों का उपयोग करना चाहिए। अक्टूबर-नवंबर के बीच सिंचाई करनी चाहिए। सिंचाई के लिए 40-45 दिनों बाद एक किग्रा पोषक के बुवाई की गई सरसों में सिंचाई बुवाई के 35-40 दिन बाद करें। तैलाबू में सभी नतीजे को दस से बुवाई के 75-80 दिनों बाद दूसरी सिंचाई करें। इस अवधि में सिंचाई हल्की करनी चाहिए। अक्टूबर-नवंबर के लिए की आसानी करनी चाहिए।

**सिंचाई प्रबंधन**  
सरसों की सिंचाई प्रबंधन के लिए दो सिंचाई पर्यवस है। पोषक के बाद कोई भी फसल में बुवाई के 40-45 दिनों बाद एक किग्रा पोषक के बुवाई की गई सरसों में सिंचाई बुवाई के 35-40 दिन बाद करें। तैलाबू में सभी नतीजे को दस से बुवाई के 75-80 दिनों बाद दूसरी सिंचाई करें। इस अवधि में सिंचाई हल्की करनी चाहिए। अक्टूबर-नवंबर के लिए की आसानी करनी चाहिए।

Press Release)

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

Production of seeds by the KVKs : Nil

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (qt)	Value (Rs)	Number of farmers
Cereals	--	--	--	--	--	--
Fodder Crops	--	--	--	--	--	--
Total						NSC

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
Vegetable seedlings						
Total						

Production of Bio-Products

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

Production of Bio-Products : Nil

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

Honey Processed

Particulars	Name of the Product	Quantity Kg	Processing Charge @ Rs. 12/ kg	No. of Farmers
Honey Processing	Honey	400	4800.00	06

## VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	265	265	15	39750.00
Water	35	35	7	---
Total	300	300	22	39750

## VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Nil	1.

## IX. NEWSLETTER : Nil

Name of News letter	No. of Copies printed for distribution
Nil	

## X. PUBLICATIONS

Category	Number
Research Paper	--
Technical bulletins	--
Technical reports	--
Abstract	--
Popular Articles	02
Extension literature	--
<b>Total</b>	--

## DETAILS OF PUBLICATION :

### Research Papers Published in Journals

Name	Year	Title	Name of Journal

### Abstracts presented in National/International Seminar Seminar

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Technical Reports	Action Plan of KVK 2021, Annual Progress Report Jan to Dec. 2021, SAC Report 2021 NICRA Progress Report 2021 Achievement Report of KVK Rating & Impact Assessment
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## XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM: Nil

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

## XIII. DETAILS ON HRD ACTIVITIES :

**Workshop/Seminar /Symposia/Winter/Summer School Attended:**

## XIV. Case Studies/Success Stories : 70 For (ICAR)

## 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	Gosthies & Trainings
NABARD	Technical Support to Kisan Clubs
Basmati Export Development Foundation	Awareness of rice growers for export
NHM	Soil Testing of beneficiaries, Capacity building & Nursery management
IFFCO, KRIBHCO	Trainings/Gosthi
SBI, PSB PNB & Distt. Cooperative Bank	Trainings/Gosthi & distribution of loan in the operational area
DOMR, Bharatpur Rajasthan	Demonstration/Field Day
Animal Husbandry Deptt.	Trainings & Circulation of Extn. Material
NGO	Trainings/Gosthi

1. Details of linkage with ATMA : Nil

2. Linkage with NHM

Programme	Nature of Linkages	No of Programmes	No of Farmers
Training of Farmers	Transfer of new Horticultural technology		

3. Linkage with State Govt. (DCO & BSA)

Programme	Nature of Linkages	No of Programmes	No of Farmers
Farmers Training	Transfer of technology	--	--

Performance of instructional farm 2021 : Nil

Name of crop	Date of sowing	Date of harvesting	Area (ha)	Details of production			Amount (Rs.)	
				Variety	Type of produce	Qty.	Cost of inputs	Net income

Utilization of Training Hall facilities : Nil

Utilization of hostel facilities : Nil



## FINANCIAL PERFORMANCE

### Details of KVK Bank Account

S. No.	Bank account	Name of Bank	Location	Account Number
1.	With Host Institution	SBI ,SVPUA&T, MZN	Meerut	30853163857
2.	With KVK	SBI Baghra, MZN	Baghra	11730183435

### Utilization of K.V.K Funds during the year 2020

S.N.	Heads	Budget Sanctioned (Rs. in lakh)	Actual Expd. (Rs. in lakhs)	Balance (Rs. in lakhs)
<b>A</b>	<b>Recurring Items</b>			
1	Pay and Allowance	194.61	194.59	0.03
2	Traveling Allowance	1.20	0.72	0.48
	HRD	0.30	0.00	0.30
3	<b>Contingencies</b>			
a	Stationery & other Expenditure for office running	3.00	2.97	0.03
b	POL/Repair of Vehicle/Tractor	1.20	0.65	0.55
c	<b>Vocational Training</b>			
	i) Meals for trainees	1.00	0.33	0.66
	ii) Training material	0.30	0.07	0.23
	iii) Frontline demonstration Except oilseeds & pulses	1.00	0.77	0.23
	iv) On-Farm Testing	0.50	0.26	0.24
	v) Training of Extension Functionaries	0.45	0.32	0.41
	vi) Library Maintenance	0.05	0.00	0.05
	vii) Maintenance building	0.00	0.00	0.00
	vii) General Contingency	0.00	0.00	0.00
	<b>Total A</b>	<b>203.61</b>	<b>200.44</b>	<b>3.06</b>
<b>B</b>	<b>Non-Recurring Items</b>			
1	Works (Main building)	0.00	0.00	0.00
2	Bio Metric Attendance	0.00	0.00	0.00
	<b>Total B</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
	<b>Total (A+B)</b>	<b>203.61</b>	<b>200.44</b>	<b>3.06</b>

### Status of Revolving Fund (Rs. in lakhs)

Financial year	Opening balance	Income	Expenditure	Closing Balance
2017-18	572977.47	7100053.00	605122.76	677907.71
2018-19	677907.71	657098.00	255483.54	1079522.17
2019-20	1079522.17	162010.00	156170.00	1085362.17

\*Rs. 8.00 lacs Fixed Deposit , \*\* Rs, 1 Lac spent on renovation of ADM Building

## XVI Achievement of Special programmes

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

S. No.	Name of QP/Job role	Duration (hrs)	No. of Courses Organised	No. of Participants						
				SCs/STs		Others		Total		TOTAL
				Male	Female	Male	Female	Male	Female	
1	Agriculture Extension Service Provider	200	--	--	--	--	--	--	--	--
11	Beekeeper	200	--	--	--	--	--	--	--	--
16	Dairy Farmer - Entrepreneur	200	--	--	--	--	--	--	--	--
	<b>TOTAL</b>	<b>600</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>

### 2) Activities performed under NARI programme

Activities	Number of activity	No. of farmers/beneficiaries
OFTs - Nutritional Garden (activity in no. of Unit)	--	--
OFTs - Bio-fortified Crops (activity in no. of Unit)	--	--
OFTs - Value addition (activity in no. of Unit/Enterprise)	--	--
OFTs - Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)	--	--
FLDs - Nutritional Garden (activity in no. of Unit)	10	10
FLDs - Bio-fortified Crops (activity in no. of Unit)	--	--
FLDs - Value addition (activity in no. of Unit/Enterprise)	10	10
FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)	--	--
Trainings	5	50
Extension Activities	2	39
<b>Grand Total</b>	<b>27</b>	<b>109</b>

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

Sample	No. of Samples in lakh	No. of Farmers in lakh	No. of Villages in lakh	Amount realized (Rs. in lakhs)	No. of Soil Health Cards issued (lakhs)
Soil	265	265	15	39750.00	265
Water	35	35	7	---	
<b>Total</b>	<b>300</b>	<b>300</b>	<b>22</b>	<b>39750</b>	

### 4) Achievements under NICRA Project

NRM		Crop production		Livestock & Fisheries			Capacity Building		Extension Activities	
Demo	Area (ha)	Demo	Area (ha)	Demo	Area (ha)	No. of animals	No of Courses	Farmers	No. of programmes	Farmers
Nil										

### 5) Achievements under ARYA Project

Name of entrepreneurial units	No. of entrepreneurial units established	No. of Training programs organised	No. of rural youth trained		No. of youth established units	
			Male	Female	Male	Female
Poultry	Nil					
Bee keeping	Nil	02	50	---	--	--
Others if any						

### 6) 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
Nil					

## XVI Awards

S.No.	Name of Award received	Name of KVK/farmer	Year of Award	Date on which award received
1	Best Agriculture Extension Professional Award	Dr. P.K.Singh, Profesor & Head	2021	Apr-21

*Note: Please also mention name of farmer who received the award.*

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