

KRISHI VIGYAN KENDRA, AMBEDKAR NAGAR
PROFORMA FOR PREPARATION OF ANNUAL REPORT (Jan. to December 2022)

APR SUMMARY

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

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	91	2118	410	2528
Rural youths	10	274	44	318
Extension functionaries	9	224	1	225
Sponsored Training	12	331	169	500
Vocational Training	19	526	121	647
Total	141	2925	745	4218

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	116	40.0	
Pulses	234	60.0	
Cereals	63	16.5	
Vegetables	28	1.52	
Other crops	45	2.0	
Hybrid crops			
Total	486	120.02	
Livestock & Fisheries	158		282
Other enterprises	37		37
Total	195		319
Grand Total	681	120.02	319

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	8	8	40
Livestock	2	2	10
Various enterprises	2	2	10
Total	12	12	60
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	12	12	60

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	748	52759
Other extension activities		
Total	748	52759

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
	Text only	59	11	32		46		138
	Voice only							
	Voice & Text both							
	Total Messages	59	11	32		46		138
	Total farmers Benefitted							123264

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	102	3,56,120
Planting material (No.)	37960	36750
Bio-Products (kg)		
Livestock Production (No.)	600	113100
Fishery production (No.)	279	3780

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7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil 462	2014	-
Water		
Plant	2014	-
Total 462		

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	4
2	Conferences	5
3	Meetings	10
4	Trainings for KVK officials	4
5	Visits of KVK officials	4
6	Book published	1

7	Training Manual	4
8	Book chapters	4
9	Research papers	6
10	Lead papers	-
11	Seminar papers	2
12	Extension folder	4
13	Proceedings	1
14	Award & recognition	2
15	Ongoing research projects	1

DETAIL REPORT OF APR-2022

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Website
Krishi Vigyan Kendra Village- Panti Post- Manshapur Distt.- Ambedkarnagar- 224168	Office 05271- 216664 Mo- 9918622745	FAX	pckvkambedkarnagar@gmail.com	Ambedkarnagar.kvk4.in

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

Address	Telephone		E mail	Website
	Office	FAX		
Directorate of Extension, NDUAT Kumarganj, Faizabad-224229 (U.P.)	05270- 262821	05270- 262821	denduat@gmail.com	www.nduat.ac.in www.nduat.co.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Ram Jeet		9918622745	pckvkambedkarnagar@gmail.com

1.4. Year of sanction: May, 2010, F.No. ZPD/5[80]/2010

1.5. Staff Position (as on 31st December, 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discip-line	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent / Temporary	Category (SC/ST/OBC/Others)	Mobile no.	Age (yr)	Email Id
1	Senior Scientist and Head	Dr. Ram Jeet	Senior Scientist/Head	Genetics and Plant Breeding	37400-67000	153200	1st July.2018	Permanent	SC	9918622745	45	pckvkambekarnagar@gmail.com
2	Subject Matter Specialist	Dr. Vidya Sagar	S.M.S., Animal Science	Animal Science	37400-67000	147900	1st Aug. 2012	Permanent	OBC	9455053228	49	vsnduat72@gmail.com
3	Subject Matter Specialist	Dr. Pradeep Kumar	S.M.S., Plant Pathology	Plant Pathology	15600-39100	98200	1st July, 2012	Permanent	OBC	9415728438	54	pkumarcdmr@gmail.com
4	Subject Matter Specialist	Dr.Ram Gopal Yadva	S.M.S., Agronomy	Agronomy		71100	12-5-2022	Permanent		9793130452	46	ramgopalkvk20875@gmail.com
5	Subject Matter Specialist	Dr.Rekha	S.M.S., Agriculture Extension	Agriculture Extension		71100	21-5-2022	Permanent	SC		37	
6	Subject Matter Specialist	Dr. Prveen Kumar Maurya	S.M.S., Vegetable Science	Vegetable Science		56100	18-5-2022	Permanent	OBC	9721561080	29	mauryapraveenbckv@gmail.com
7	Subject Matter Specialist	Vacant										
8	Programme Assistant	Vacant										
9	Computer Programmer	Smt. Shashi Prabha Anand	Programme Assistant/Computer	Computer Science	9300-34800	37600	1st Sept. 21	Permanent			32	
10	Farm Manager	Dr. J.P. Ram	Programme Assistance/ Farm Manager	Vegetable Science	9300-34800	66000	1st Sept. 22	Permanent		9651265298	47	
11	Accountant / Superintendent	Sri. Suresh Pratap Singh	Accountant / Superintendent		9300-34800	52000	17th Mar. 2016	Permanent	GN	9454471922	27	sureshosnduat@gmail.com
12	Stenographer	Sr.Gangesh	Computer Operator	Computer Science	5200-20200	2550	02 nd Sept.,2019	Permanent	OBC	6306732954		gangeshgiri1012@gmail.com

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	0.80
2.	Under Demonstration Units	0.18
3.	Under Crops	3.5
4.	Orchard/Agro-forestry	0.05
5.	Others (specify)	13.603
	Total	18.133

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR 100%	Sept.13	550	182.50	2011		completed
2.	Farmers Hostel	ICAR 100%		305	45.75	2011		completed
3.	Staff Quarters (6)	ICAR 100%	Dec.,2014	400	60.00	2011		completed
4.	Demonstration Units –Poultry Shed	RKVY	March,22	1000	11.00			Completed
5.	Fencing	RKVY	Dec.2021	15000		2020		completed
6.	Rain Water harvesting system	RKVY	Dec.2021	3100		2020		completed
7.	Threshing floor	RKVY	Dec.2021	20		2020		completed
8.	Farm go down							Budget not allotted

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2011	426000	200Hrs.	Good
Jeep	2011	476596	193,249 Kms.	Needed repairs and maintenance

C) Equipments & AV aids-

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Disc harrow	2011	21400	Good
Cultivator	2011.	16850	Good
Disc plough	2011	18000	Good
Leveller	2011	6255	Good
PTO Pulley	2011	3200	Good
TV	2019	42000	Good

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

* Attach a copy of SAC proceedings along with list of participants

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6.	MWk0 jkt eaxy pkS/kjh] Hkwfe laj{k.k@ikS/k laj{k.k vf/kdkjh] vEcsMdj uxj	lnL;
7.	Jh lat; dqekj jLrksxh] ftyk m ku vf/kdkjh] vEcsMdj uxj	lnL;
8.	Jh jekdkar ik.Ms;] izHkkjh dk;Zdkjh vf/kdkjh erL;] vEcsMdj uxj	lnL;
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10.	Jh vkj- okbZ- /kqf k] izHkkjh vf/kdkjh] Qy laj{k.k] vEcsMdj uxj	lnL;
11.	Jh vkj- ch- ;kno] mik;qDr jk'V ^a h; vkthfodk fe'ku] vEcsMdj uxj	lnL;

12.	Jh vk'kh"K flag] ,y- Mh- ,e-] vEcsMdj uxj	InL;
13.	Jh vt; dqekj oekZ] Mk;jsDVj] vkj- ls- Vh-] vEcsMdj uxj	InL;
14.	Jh jke dqcsj] izHkkjh e`nk ifj{k.k iz;ksx'kkyk] vEcsMdj uxj	InL;
15.	Jh jke #i] ifjoh{kd] ijx Ms;jh] vEcsMdj uxj	InL;
16.	Jh jek 'kadj ekS;Z] izxfr'khy d'"kd] ukjk;.kiqj] vEcsMdj uxj	InL;
17.	Jh n;k "kadj xkSaM] izxfr'khy d'"kd] dchjiqj] vdcjiqj] vEcsMdj uxj	InL;
18.	Jh d".k dqekj flag] izxfr'khy d'"kd] nqYyikiqj] HkhVh] vEcsMdj uxj	InL;
19.	Jherh 'kkjnk oekZ] izxfr'khy efgyk d'"kd] vEcsMdj uxj	InL;
20.	Jherh 'kdqaryk ;kno] izxfr'khy efgyk d'"kd] ikarh] dVsgjh] vEcsMdj uxj	InL;
21.	Jh vkuan flag] izxfr'khy d'"kd] laxzkeiqj]vdcjiqj] vEcsMdj uxj	InL;
22.	Jh jke pj.k oekZ] izxfr'khy d'"kd] eejstiqj] Vk.Mk] vEcsMdj uxj	InL;
23.	Jh jktsUnz 'kekZ] izxfr'khy d'"kd] vk'kkthriqj] HkhVh] vEcsMdj uxj	InL;
24.	Jh lquhy dqekj oekZ] izxfr'khy d'"kd] ikarh] dVsgjh] vEcsMdj uxj	InL;
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27.	MkW0 iznhi dqekj] fo"K; oLrq fo'ks"K ikni lqj{kk] ds-oh-ds-] vEcsMdj uxj	InL;
28.	MkW0 jke dqekj] dk;Zdze lgk;d@izHkkjh m ku] ds-oh-ds-] vEcsMdj uxj	InL;
29.	Jh ,l- ih- flag] dk;kZy; v/kh{kd] ds-oh-ds-] vEcsMdj uxj	InL;
30.	Jh jktsUnz oekZ] iz{ks= izca/kd] ds-oh-ds-] vEcsMdj uxj	InL;
31.	Jh xaxs'k fxfj] LVsuxsxzkQj] ds-oh-ds-] vEcsMdj uxj	InL;

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vuqikyukFkZ& leLr fo"K; oLrq fo'ks"Kk

- 2- ÁFke iafDr ÁnZ'ku ubZ Átkfr;@a ,oa rduhdh ij vk;@ftr fd;s tk, lkFk gh vku QkeZ VsLfVx dk;Z ;@tuk es lfEefyr fd;k tk,A

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- 3- ou foÒkx] m?kku foÒkx] ds dk;ZØeksa lgHkkfxrk djsa ,oa lg;@x ysdj dsUæ ifjlj es o`{kkj@i.k fd;k tk, rFkk ok;@QsfUlx QkeZ ds pkj@ rjQ djkus ij cy fn;k tk,A rFkk dsUæ ij v©?kkfud okfudh] Qwy lfCt;@a dh i©/k rS;kj dj foØ; fd;k tk,A

vuqikyukFkZ Mk- jke dqekj] dk;ZØe lgk;d ¼m|ku½

- 4- xUuk foÒkx ds dk;ZØeksa lgHkkfxrk dj xUuk Qly mRiknu esa vkusa okyh leL;kvksa ,oa chekfj;ksa dk funku fd;k tk;sa

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7- ftys ds Áxfr'khy Ñ"kdks Áeq[k vkDMS+, d= fd;s tk, ,oa ßlQyrk dh dgkuh ,oa ds'k LVMh rS;kj dh tk,A

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8- Qy laj{k.k] foÖkx] ds dk;ZØeksa lgHkkfxrk dj {ks= ds Ñ"kdksa ,oa Ñ"kd efgykvksa dks Qy ,oa ICth ,oa nqX/k laj{k.k ,oa mRikn rS;kj dj vf/kd vk; vftZrdjusagsrq Ásfjr fd;k tk;SA

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9- cjkSnk Lojkstxkj laLFkku Áf'k{k.k dk;ZØeksa lgHkkfxrk dj {ks= ds Ñ"kdksa ,oa Ñ"kd efgykvksa dks Ñf"k ls lEcU/kr O;olk;sa viukdj vf/kd vk; vftZr djusa gsrq Ásfjr fd;k tk;SA

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2. DETAILS OF DISTRICT (31st December, 2022)

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

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

4.	Agriculture + Vegetable + Fisheries
5.	Agriculture + Animal Husbandry

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

S. No	Agro-climatic Zone	Characteristics
1.	Eastern plain zone (EPZ)	Alluvial soil, Average rain fall of 899.85 mm
2.	AES- 1	Irrigated, Sandy Loam
3.	AES – II	Upland, at the both side of Tamasa river
4.	AES –III	Rain fed sandy loam soil
5.	AES – IV	Irrigated clay loam
6.	AES – V	Clay, Water logged condition

2.3 Soil types

S. No	Soil type	Characteristics	Area in ha
1.	Sandy soil	Upland soil, Poor in soil fertility, deepwater table	55%
2.	Sandy loam	Major area under irrigation, source of irrigation canal	18%
3.	Clay loam & alluvial	Low land, shallow water table, some portion sodic soil	27%

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

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1.	Paddy	1,17,976	3,40,599	28.87
2.	Maize	4,78	500	10.46
3.	Sorghum	894	949	10.62
4.	Bajra	8	7	8.75
5.	Urd	75	67	8.93
6.	Moong	30	25	8.33
7.	Pigeon pea	1,884	1451	7.70
8.	Til	10	3	3.00
(B) Rabi				
1.	Wheat	118419	407835	34.44
2.	Pea	4002	1016	2.54
3.	Mustard	4,099	1937	4.73
4.	Chick pea	1,337	495	3.70
5.	Lentil	306	132	4.31
6.	Barley	450	1,303	28.96
7.	Linseed	2	1	5

2.5. Weather data

Month	Rainfall (mm)	Av. Temperature ° C		Av. Relative Humidity (%)
		Maximum	Minimum	
July-September,	1256.50	43	31	62

2021				
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2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	20193	-	-
<i>Indigenous</i>	169324	-	-
Buffalo	268862	-	-
Sheep			
<i>Crossbred</i>	52	-	-
<i>Indigenous</i>	13705	-	-
Goats	138463	-	-
Pigs	Pigs		
<i>Crossbred</i>	1048	-	-
<i>Indigenous</i>	10664	-	-
Rabbits	-		
Poultry			
Hens			
<i>Desi</i>	144326	-	-
<i>Improved</i>	141712	-	-
Ducks	18770	-	-
Turkey and others	20193	-	-

Category	Area	Production	Productivity
Fish			
<i>Marine</i>			
<i>Inland</i>	263ha.	6000-7800Q./yr.	26-30 Q./ha.
Prawn			
Scampi			
Shrimp			

2.7 Details of Operational area / Villages (31st December, 2022)

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Akbarpur	Akbarpur	Sangrampur	Rice, wheat, pulses, vegetables, piper mint, mango, banana, cattle and buffaloes	Low yield of crops due to existing cultivars and traditional methods of cultivation	Enhancing production and productivity through variety and technology, improved feeding & manage mental practices of animals for better production s

2.	Bhiti	Bhiti	Hiri Pakaria	Rice, wheat, pulses, oilseeds, cattle, buffaloes and goats	Low yield of crops due to poor crop and livestock management	HYVs of pea, Rice, wheat, pulses, oilseeds with improved package of practices and improved feeding & management practices better animals production
3.	Bevana	Bevana	Manshpur	Rice, wheat, pulses, oilseeds, sugarcane, vegetables, pea, tomato. Chilli, ladyfinger, crossbred cows buffalo, , goats , sheep and poultry	Low yield of crops due to use of old varieties poor management practices of crops and low animals, milk productivity due imbalance feeding and management	Introduction of HYVs of pea, Rice, wheat, pulses, oilseeds with improved package of practices , improved feeding & management practices of animals for better production s
4.	Baskhari	Baskhari	Harriaya	Pigeon pea, vegetables, pea, tomato. Chilli, lady finger, crossbred cows, buffalo, goats, poultry etc.	Low yield of crops due to existing cultivars and traditional methods of cultivation and low productivity of animals due to poor management	Introduction HYVs of pea, Rice, wheat, pulses, oilseeds with improved package of practices , improved breeds, feeding & management practices of animals for better production
5.	Tanda	Tanda	Khashpur	Pigeon pea, vegetables , pea, tomato. Chilli, ladyfinger, crossbred cows, buffalo, goats, poultry etc.	Low yield of crops due to existing cultivars and traditional methods of cultivation and low productivity of animals due to poor management	Introduction HYVs of pea, Rice, wheat, pulses, oilseeds with improved package of practices , improved ,breeds, feeding & management practices of animals for better production

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Cereal crops	Management of rice – wheat cropping pattern
Organic crop production	Promotion of organic farming
Diversify crop production	Diversification of existing cropping system
RCT	Promotion of resources conservation technologies
Seed production	Promotion of seed production (seed village concept among farmers)
Enhancement of milk production	Enhancement in milk yield of cattle and buffalo
Horticultural Crop production	Promotion of fruit crops (Aonla, Mango, Banana, Agro- forestry)
Entrepreneurial development	Entrepreneurship development in dairy, poultry, goatary, fish bee keeping, floriculture, vegetable and mushroom production
Post harvest technology	Promotion of agro processing technologies for

	value addition of agricultural products
Soil water conservation	Rain water harvesting and soil health management
Capacity building	Promotion and formation of SSG, Mahila mandal, Farm Science club etc.
Disaster management	Disaster management / unseasonal rainfall/hail storm/cold waves etc.
Enhance the income of farmers	Enhance the income of farmers per unit area by intercropping with crops, integrated farming with crops with agro forestry , fish cum poultry farming, dairy cum Javik farming.

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2022

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
12	12	60	60	100	77.52	200	415

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	80	89	2000	2484	600	621	50,000	51,727
Rural youth	22	25	500	983				
Ext., Functionaries	8	7	200	184				

Seed Production (Qtl.)	Planting material (Nos.)
------------------------	--------------------------

5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
100	54.26	270	20000	25930	50

2.9 Intervention/ Programmes for the doubling the farmers income –(Jan 2022-Dec. 2022)

Demonstrations

1-Intercropping- Kidney bean +Bottle gourd

Before Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent Yield(q/ha)	Cost of cultivation(Rs/ha)*	Gross Income(Rs/ha.)	Net income(Rs/ha.)	B.C: Ratio	Remark if any
Intercropping System (Rabi) – Kidney bean - Varsity-Chitra	314	-	314	20500	2449200	2428700	1:119.4	

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)*	Gross Income(Rs/ha.)	Net income(Rs/ha)	B.C: Ratio	Remark if any
Intercropping System(Rabi)- Kidney bean +Bottle gourd – Narendra Rashmi	317	450.10	767.10	Kidney bean - Rs.24700+ Bottle gourd -Rs.23800 =48500	Kidney bean - 2472600+ Bottle Gourd - 1035230=3507830	2459330	1:72.32	

Expected Sale price- Banana- Rs. 7800/Q., Bottle gourd -Rs. 2300/Q



2- Intercropping-Pigeon pea +Cowpea

Before Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Gross Income(Rs/ha.)	Net income(Rs/ha)	B.C: Ratio	Remark if any
Mono Cropping System (Kharif) –Pigeon pea- Narendra Arhar-2	24.15	-	24.15	25300	142485	117185	1:5.63	

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)*	Gross Income(Rs/ha.)	Net income(Rs/ha)	B.C: Ratio	Remark if any
Mono Cropping System (Kharif) – Pigeon pea + Vegetable Cowpea –GFC-3	25.6	180.6	421.9	Pigeon pea - 25450+ Vegetable Cowpea 22500=47950	Pigeon pea - 151040+ Vegetable Cowpea 334110=485150	437200	1:10.12	

Expected Sale price/ MSP – Pigeon pea - Rs. 5900/Q., Vegetable cowpea -Rs. 1850/Q.

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



3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2022

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
12	12	60	60	100	120.02	200	486

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	Achieve ment	Targe ts	Achieve ment	Target s	Achi eve ment	Target s	Achiev ement
Farmers	100	141	2000	4218	600	748	40,000	52759
Rural youth	10	10	250	318				
Vocational Training	10	19	250	647				
\Extn. Functionaries	8	9	200	225				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	102	120	25000	37960	330

I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Nutrient Management				
Varietal Evaluation				
Integrated Pest Management	Brinjal	Evaluation of Safer insecticide against shoot & fruit borer in Brinjal	1	5
	Chick Pea	Evaluation of safer insecticide against pod borer management in Chick pea	1	5
	Pigeon pea	Management of pod borer in pigeon pea	1	5
Integrated Disease Management				
Integrated Crop Management				
Small Scale Income Generation Enterprises				
Weed Management	Paddy	Assessment of post emergence herbicides (PE) for control of grasses & broad leaf weeds for higher grain yield of paddy.	1	5
	Wheat	Assessment of post emergence herbicides (PE) for control of grasses & broad leaf weeds for higher grain yield of wheat.	1	5
	Pigeon pea	To assess the performance of suitable Weedicides for weed control in Pigeon pea	1	5
Resource Conservation Technology	Paddy	Assessment of Paddy production performance of direct sowing of paddy by Super seeder	1	5
	Wheat	Assessment of Wheat production performance of direct sowing by Super seeder	1	5
Farm Machineries				
Integrated Farming System				

Seed / Plant production				
Post Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				
Total			8	40

Summary of technologies assessed under livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Disease Management	Dairy cows	Assessment of Balance feeding with protein & mineral mixture in concentrate with de-worming enhance the productivity and reduce the problems of prolapsed of uterus at last stage of pregnancy.	1	5
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management				
Production and Management	Poultry	Assessment of performance of Back Yard Poultry Farming in traditional system of farming.	1	5
Others (Pl. specify)				
Total			2	10

Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers
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Varietal Evaluation				
	Wheat	Varietal evaluation of High yielding variety of wheat	1	5
Integrated Pest Management	Brinjal	Evaluation of Safer insecticide against shoot & fruit borer in Brinjal	1	5
	Chick Pea	Evaluation of safer insecticide against pod borer management in Chick pea	1	5
	Pigeon pea	Management of pod borer in pigeon pea	1	5
Weed Management	Paddy	Assessment of post emergence herbicides (PE) for control of grasses & broad leaf weeds for higher grain yield of paddy.	1	5
	Wheat	Assessment of post emergence herbicides (PE) for control of grasses & broad leaf weeds for higher grain yield of wheat.	1	5
	Pigeon pea	To assess the performance of suitable Weedicides for weed control in Pigeon pea	1	5
Resource Conservation Technology	Paddy	Assessment of Paddy productivity and profitability through direct sowing of paddy by Super seeder	1	5
	Wheat	Assessment of wheat productivity and profitability through direct sowing of wheat by Super seeder	1	5
Disease Management	Dairy Cattle	Assessment of Balance feeding with protein & mineral mixture in concentrate with de-worming enhance the productivity and reduce the problems of prolapsed of uterus at last stage of pregnancy	1	5
Production and Management	Poultry	To assess the performance of Back Yard Poultry Farming in traditional system of farming.	1	5

Note: Suppose IPM in paddy is the technology assessed by 10 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with $10 \times 5 = 50$ trials and No. of KVKs will be 10. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

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

(The model for preparing the same is furnished below)

WEED MANAGEMENT

OFT-1

Problem definition: Heavy infestation of weed due to improper use of herbicide in paddy crops.

Technology Assessed or Refined -Assessment of post emergence herbicides (PE) for control of grasses & broad leaf weeds for higher grain yield of paddy.

KVK Ambedkar Nagar Uttar Pradesh took up on-farm trial on of post emergence herbicides (PE) for control of grasses & broad leaf weeds for higher grain yield of paddy. Spray of Bispyribac sodium@ 250ml/ha. + Almix @ 20g/ha. at 30 days of transplanting showed less no. of weeds and 16.22 per cent higher grain yield than farmer practice.

Table: Effect of Bispyribac sodium + Almix herbicide on weed control & yield of paddy.

Technology Option	No.of trials	Yield (qt./ha)	Increase in yield (%)	Net Return (Rs./ha)	B:C Ratio
T1- Spray of Butachlor @ 3lit/ha. within 3days of transplanting (Farmer practice)	05	49.7	--	26300	1.6
T2-- Spray of Bispyribac sodium@ 250ml/ha. + Almix @ 20g/ha. at 30 days of transplanting.		54.2	9.0	36455	2.0

Result: Spray of Bispyribac sodium@ 250ml/ha. + Almix @ 20g/ha. At 30 days of transplanting showed less no. of weeds and 9.0 per cent higher grain yield than farmer practice i.e. spray of Butachlor @ 3lit/ha. within 3 days of transplanting.

RESOURCE CONSERVATION TECHNOLOGY OFT-2

Problem definition: High cost production and profitability in Paddy cultivation

Technology Assessed or Refined: Assessment of Paddy productivity and profitability through direct sowing of paddy by Super seeder

The KVK Panti, Ambedkar Nagar conducted on-farm trial on direct sowing of paddy by Super seeder -Variety NDR-2065. Direct sowing of paddy by Super seeder increased yield 13.21 per cent.

Table Effect of seed rate on yield and income of paddy sown by Super seeder

Technology Option	No.of trials	Yield (t/ha)	% increased Yield	Net Returns (Rs./ha)	BC Ratio
Scattered transplanting (Farmers Practice)	6	42.37	-	29193.5	42.37
Direct paddy sown by Super seeder (Recommended Practice)		49.24	16.21	43822.0	49.24

Result - Direct sowing of paddy by Super seeder increased yield 13.21per cent.

PEST AND DISEASE MANAGEMENT

OFT-3

Problem definition: Low yield of Brinjal due to severe infection of shoot and fruit borer insects

Technology Assessed or Refined: Evaluation of Safer insecticide against control of shoot & fruit borer in Brinjal

KVK Ambedkar Nagar Uttar Pradesh took up on-farm trial on evaluation of safer insecticide against control of shoot & fruit borer in Brinjal. The results indicated that foliar spray of Emmactin Benzoate 5SG@18/l. (w/v)/more effective to control of shoot & fruit borer in Brinjal.

Table Effect of insecticide against control of shoot & fruit borer in Brinjal

Technology Option	No. of trials	Insect infection (%)		Yield (q./ha)		% Increase in yield over farmer's practice
T1- Spray of Cypermethrin 5EC@ 2ml./lit.(Farmers Practice)	5	Trial	Check	Trial	Check	24.70
T2-- Spray of safer insecticide Emamactin benzoate 5 SG @18ml/l. (Recommended Practice)		5.42	24.16	283.74	227.52	

Result: Spray of safer insecticide Emamactin benzoate 5 SG @18ml/l more effective in term of less infestation of shoot & fruit borer insects resulted increase yield up to 24.70 per cent.

LIVE STOCK ENTERPRISES

OFT-4

Problem definition:Poor milk yield &problem of prolapsed of uterus at last stage of pregnancy in H.F. cows.

Technology Assessed or Refined:Assessment of Balance feeding with protein & mineral mixture in concentrate with de-worming enhance the productivity and reduce the problems of prolapsed of uterus at last stage of pregnancy.

Table : Performance of Technology Assessed

Technology Option	No. of trials	Parameter*- Problems of prolapsed of uterus during last stage of pregnancy	Av.Milk production (Lit./day)	% change in Yield	Grass cost(Rs./day.)	Grass income (Rs./day)	Net Income (Rs./day)	BC Ratio
FP- Feeding of paddy /wheat straw with limited green fodder and imbalance	(6 lactating H.F. cows.)	In 3 animals among six ,some	6.8	---	180	272	92	1:1.5

concentrate mixture		extent problems have been observed						
T-1 -FP + Balance feeding with concentrate and 50g.minerals mixture/day with de-worming 1 st day and 60 th day		No problems found till now	9.3	36.76	210	372	162	1:1.7

Interference & Feedback-Dairy animals perform better production and health on balance feeding along with protein and minerals supplementation and regular de-worming

Farmers Reaction -Balance feeding along with protein and minerals supplementation and regular de-worming give profitable production & reduce problem of prolapsed of uterus.



OFT-5

Problem definition: High disease incidence, high feed cost and required better management in Broiler poultry farming.

Technology Assessed or Refined: Assessment of performance of Cary Shyama Poultry Back Yard Poultry Farming in traditional system of farming.

Broiler rearing is costly required well managed housing system, required hygienic condition along with costly industrial made feed and not fit for Back yard poultry system. KVK Ambedkar Nagar conducted trial on assessment of Cary Shyama birds in Back Yard Poultry Farming in traditional system of farming. In back yard poultry farming system Croiler Poultry birds gain better body weight with locally available feed ingredients prepared feed.

Table : Performance of Back Yard Poultry Farming in traditional system of farming.

Technology Option	No. of trials/ Farmers	Av.Body weight gain in 45 days (Kg.)	Diseases incidence	Feed cost/ weight gain ratio per kg.	Gross cost(Feed +medicine)/ bird	Gross Return/Bird (Rs.)	BC Ratio
FP- Rear Broiler on Back yard poultry farming system along with costly industrial made feed.	3 (100 Cary Shyama poultry birds/ farmer)	2.10Kg.	Incidence of Gombhoro & Coccidiosis diseases	Rs. 69/Kg.	Rs.159.9	252	1:1.58
T-1 – Rear 100 Cary Shyama poultry birds in Back Yard Poultry Farming System with locally available feed ingredients prepared feed- by wheat grain, yellow maize, Rice bran, till cake, fishmeal etc.		2.14Kg.	Coccidiosis in very less extent	Rs.76/Kg.	Rs.177.7	342.4	1:1.9

Av. sale price of broiler birds Rs. 120/Kg. and Cary Shyama birds Rs.160 / Kg.

Result -Cary Shyama Poultry birds gain better body weight with locally available feed ingredients prepared feed with fewer incidences of infectious diseases. This variety is ideally suited for rearing give more profit than broiler poultry birds.



II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2020-21 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha.
1.	Pigeon pea	RCT	Pigeon pea Sowing in raised bed	Demonstrations and farm advisory services	43	168	65
	Paddy	RCT	Direct sowing of paddy by Super seeder	Demonstrations and farm advisory services	20	166	37

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

b. Details of FLDs implemented during **2022** (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Pigeon pea	VE	HYV-NA-2	Kharif -2022	10	10	11	23	35	
2.	Paddy	VE	HYV-ND-2967	Kharif -2022	10	10	13	27	40	
3.	Wheat	VE	HYV-PBW-107	Rabi, 2021	10	10	6	19	25	
4.	Bottle gourd	VE	HYV-Narendra rasmi	Kharif ,2022	0.2	0.2	1	9	10	
5.	Cauliflower	VE	HYV-Girija	Rabi, 2022	0.20	0.16	1	7	8	
6.	Bee Keeping	Enterprise	Apis Melifera	Rabi 2022	5units	5	1	4	5	
7.	Goat Keeping	Enterprise	Barbari goat	Year 2022	5 Animals	5	2	1	3	
9.	Vaccination	Disease	Vaccination	Year	203A	290	21	46	67	

	natio n	ases cont rol	on against HS and FMD	2022	nimal s					
10.	Mult icut Char i	Green fodd er prod ucti on	SSG-898	Kharif 2022	1.0	1.0	3	17	20	
10.	Bese em fodd er	Fod der prod ucti on	JHTB-147	Rabi 2022	1.0	1.0	3	22	25	
11.	Mus tard	Oil seed prod ucti on	RH-725	Rabi 2022	30	30	26	59	85	
12.	Gram	VE	RVG-202	Rabi, 2022	20	20	28	57	85	
13.	Lentil	VE	LK-59-3	Rabi 2022	20	20	24	61	85	
15.	Mushro om	Ente rpris e	Oyster	Rabi 2022	10	10	3	20	25	
16.	Button Musroo m	Ente rpris e	Agricus	Kharif 2022	5	5	1	4	5	
18.	Apicult ure	Ente rpris e	Apis Melifera	Rabi 2022	5	5	1	4	5	

Details of farming situation

Cro p	Season	Farming situation (RE/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Pi ge on pe a	Kha rif	Irr ig at ed	Sandy loam	L	L	M	Whe at	Ist week of July,2022	-	316 mm	-
Gr a m	Rab i	Irr ig at ed	Sandy loam	L	L	M	Padd y	Last week of October,2 022	-	316 mm	-
M ust ar d	Rab i	Irr ig at ed	Sandy loam	L	L	M	Padd y	Ist week of October,2 022	-	316 mm	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Narendra Arhar -2 – Farmers were satisfied for higher yield
2	Chick pea –RVG-202 Farmers reported more yield and less wilt
3	Mustard Peetambari–Variety performed better yield than NDR-8501 variety

Farmers' reactions on specific technologies

S. No	Feed Back
1	Narendra Arhar-2 Sown on raised bed performed better production
2	Chick pea –RVG-202 Sown with raised bed provide better yield

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	1-Field day on NDR-2065	12-10-22	25	
2	Farmers Training	1-Production technology of Mustard	22-10-22	28	
		2-Production technology of Rabi Pulses	16-10-22	32	
3	Media coverage				
4	Training for extension functionaries	1-Seed production technology of of Pulse and oilseed crops	18-10-22	125	

Lentil	VE	HYV	LKS-9-3	85	20	Crop is in standing stage												
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* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo High	Low	Average	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cereals																			
Paddy																			
	VE	HYV-NDR-2065	105	35	56.70	51.50	53.80	47.20	13.98			36900	94150	57250	1:2.55	34600	82600	48000	1:2.38
Wheat	VE	HD-2967	33	9	Crop is in standing stage														
Vegetables																			
Bottlegourd																			
	V	HYE-	10	0.2	323.7	321.4	322.90	263.3	22.63			15670	96970	81300	1:6.18	13010	78980	65970	1:6.07

	E	Narendra Rasmi			0	0		0											
Cabbage																			
Cauliflower																			
Fodder Crops																			
Sorghum (F)	V E	Multicut Chari-SSG-898	17	1.0	378	310	339.5	275.4	23.28			15469	67900	52431	1:4.39	14837	54900	40063	1:3.70
Berseem	V E	HYV-JHTB-146	25	1.0	Crop is in harves ting stage														

Expected Sale price/ MSP – Paddy- Rs. 1750/Q, Bottle gourd- Rs. 300/Q

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

** BCR= GROSS RETURN/GROSS COST

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Sheep & Goat	Goat farming	Improved breed-Barbari goat	3	5(3 female, 2 male)	7	7	28.57			29430	39050	9420	1:1.31	25260	31000	5740	1:1.23

Vaccination	Infectious Diseases control	Vaccination and de-worming for prevention against BQ,HS ,FMD and parasitic infectious diseases to dairy Cattle ,buffaloes and goats	82	258	257	-	100	Infection nil in vaccinated and de - worming animals									

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

** BCR= GROSS RETURN/GROSS COST

FLD on Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps	Composite Fish farming	6 fish breed rearing- i Composite Fish farming n	3	3000 fingerlings	4 fish breedsrearing-Rohu Common corps, Silver crops,Grass carp6 fish breedsrearing-Catla, Rohu Naian,Common carps, Silver carp,Grass carp	4 fish breeds rearing-Rohu Common carp, Silver carp,Grass carp	Deomnstration is in running condition										

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

** BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises

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)
Button Mushroom	Button Mushroom(Agaricus bisporus)	6	6	60.00Kg.	48.00kg.	25.00			4150	9000	4850	1:2.17	4000	7200	3200	1:1.80
Apiculture	Hony Production (Italian Bee-Apis Melifera)	5	5	57.50	42.50	35.29			3000	5750	2750	1:1.91	3000	5250	2250	1:1.75

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

[illegible][illegible]

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Economics of demonstration (Rs./ha)			
					Demo	Check		Gross	Gross	Net	BCR

					High	Low	Average			Cost	Return	Return	(R/C)
Oilseed crop													

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

III. Training Programme

Farmers' Training including sponsored training programmes (on campus)

[illegible]

[illegible]

low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	2	18	26	44	10	6	16	28	32	60
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology	1	22	12	34	11	5	16	33	17	50
Others (pl specify)										
Total	1	22	12	34	11	5	16	33	17	50
VII Plant Protection										
Integrated Pest Management	1	22	2	24	13	1	14	35	3	38
Integrated Disease Management										
Bio-control of pests and diseases	1	0	39	39	0	6	6	0	45	45
Production of bio control agents and bio pesticides	1	23	1	24	16	2	18	39	3	42
Others (pl specify)										
Total	2	45	3	48	29	3	32	74	6	80
VIII Fisheries										
Integrated fish farming	1	23	1		26		26	49	1	50
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total	1	23	1		26		26	49	1	50

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Total	11	147	23	170	82	16	98	229	39	268
VIII Fisheries										
Integrated fish farming	2	36	3	39	33	3	36	69	6	75
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	1	15	1	16	14	1	15	29	2	31
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	3	51	4	55	47	4	51	98	8	106
IX Production of Inputs at site										
Seed Production	2	35	5	40	17	7	24	52	12	64
Planting material production	1	12	3	15	14	6	20	26	9	35
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	1	11	2	13	13	2	15	24	4	28
Bio-fertilizer production	1	8	3	11	8	6	14	16	9	25
Vermi-compost production	0	0	0	0	0	0	0	0	0	0
Organic manures production	2	33	4	37	24	7	31	57	11	68
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	1	12	3	15	11	2	13	23	5	28
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	3	36	5	41	25	4	29	61	9	70
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Mushroom Production	1	11	2	13	17	2	19	28	4	32
Apiculture	2	19	3	22	15	3	18	34	6	40
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	14	177	30	207	144	39	183	321	69	390
X Capacity Building and Group Dynamics										
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	1	22	3	25	8	21	29	30	24	54
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	3	54	7	61	31	6	37	85	13	98
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	4	76	10	86	39	27	66	115	37	152
XI Agro-forestry										
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	1	21	3	24	5	2	7	26	5	31
Integrated Farming Systems	1	22	1	23	5	2	7	27	3	30
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	2	43	4	47	10	4	14	53	8	61
GRAND TOTAL	91	1296	208	1504	822	202	1024	2118	410	2528

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	22	2	24	9	2	11	31	4	35
Training and pruning of orchards	0			0			0	0	0	0
Protected cultivation of vegetable crops										
Commercial fruit production	0			0			0	0	0	0
Integrated farming	1	20	2	22	6	2	8	26	4	30
Seed production	0			0			0	0	0	0
Production of organic inputs	1	26	2	28	16	8	24	42	10	52
Planting material production	0			0			0	0	0	0
Vermi-culture	1	38	3	41	15	6	21	53	9	62
Mushroom Production	1	21	2	23	5	3	8	26	5	31
Bee-keeping	1	20	2	22	6	2	8	26	4	30
Sericulture	0			0			0	0	0	0
Repair and maintenance of farm machinery and implements	0			0			0	0	0	0
Value addition	1	21	2	23	9	3	12	30	5	35
Small scale processing	0			0			0	0	0	0
Post Harvest Technology	0			0			0	0	0	0
Tailoring and Stitching	0			0			0	0	0	0
Rural Crafts	0			0			0	0	0	0
Production of quality animal products	0			0			0	0	0	0
Dairying	1	31	1	32	9	1	10	40	2	42
Sheep and goat rearing	1	28	1	29	12	3	15	40	4	44
Quail farming	0			0			0	0	0	0
Piggery	1	33	1	34	18		18	51	1	52
Rabbit farming	0			0			0	0	0	0
Poultry production	1	20	2	22	5	3	8	25	5	30
Ornamental fisheries	0			0			0	0	0	0
Composite fish culture	1	20	2	22	6	2	8	26	4	30
Freshwater prawn culture	0			0			0	0	0	0
Shrimp farming	0			0			0	0	0	0
Pearl culture	0			0			0	0	0	0
Cold water fisheries	0			0			0	0	0	0
Fish harvest and processing technology	0			0			0	0	0	0
Fry and fingerling rearing	0			0			0	0	0	0
Any other (pl.specify)	0			0			0	0	0	0
TOTAL	13	285	25	332	115	38	153	400	63	463

Integrated farming	1	20	2	22	6	2	8	26	4	30
Seed production										
Production of organic inputs	1	26	2	28	16	8	24	42	10	52
Planting material production										
Vermi-culture	2	51	8	59	21	14	35	72	22	94
Mushroom Production	2	33	4	37	16	5	21	49	9	58
Bee-keeping	2	33	14	47	10	12	22	43	26	69
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	1	21	2	23	9	3	12	30	5	35
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	2	24	3	27	14	5	19	38	8	46
Sheep and goat rearing	2	24	3	27	14	5	19	38	8	46
Quail farming										
Piggery	1	33	1	34	18		18	51	1	52
Rabbit farming										
Poultry production	1	20	2	22	5	3	8	25	5	30
Ornamental fisheries										
Composite fish culture	2	33	4	37	18	5	23	51	9	60
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	19	368	55	423	158	66	224	526	121	647

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	2	46	0	46	4	0	4	50	0	50
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	1	24	0	24	1	0	1	25	0	25
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	1	22	0	22	3		3	25	0	25
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	4	93	0	93	7	0	7	100	0	100

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	22	0	22	3	0	3	25	0	25
Integrated Pest Management	1	21	1	22	3	0	3	24	1	25
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology	1	20		20	5		5	25	0	25
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	1	21	1	22	3	0	3	24	1	25
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	3	63	1	64	11	0	11	74	1	75

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

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	22	0	22	3	0	3	25	0	25
Integrated Pest Management	3	67	1	68	7	0	7	74	1	75
Integrated Nutrient management										
Rejuvenation of old orchards	1	24	0	24	1	0	1	25	0	25
Protected cultivation technology	1	20	0	20	5	0	5	25	0	25
Production and use of organic inputs	1	25	0	25	0	0	0	25	0	25
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	2	45	0	45	5	0	5	50	0	50
Livestock feed and fodder production	1	22	0	22	3	0	3	25	0	25
Household food security										
Any other (pl.specify)										
TOTAL	9	201	1	202	23	0	23	224	1	225

Table. Sponsored training programmes[illegible]

Methods of protective cultivation										
Others (pl. specify)										
Total	7	166	33	199	76	25	101	242	58	300
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total	1	22	0	22	3	0	3	25	0	25
Farm machinery	1	20	0	20	5	0	5	25	0	25
Farm machinery, tools and implements										
Others (pl. specify)										
Total	7	154	1	155	20	0	20	174	1	175
Livestock and fisheries										
Livestock production and management	1	25	0	25	0	0	0	25	0	25
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management	1	17	0	17	22	11	33	39	11	50
Others (pl. specify)										
Total	2	42	0	42	22	11	33	64	11	75
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity Building and Group Dynamics	1	20	0	20	5	0	5	25	0	25
Others (pl. specify)										
Total										
GRAND TOTAL	12	228	75	303	103	94	197	331	169	500

Name of sponsoring agencies involved:

- i-Deptt. of Horticulture, Ambedkar Nagar
- ii- Deptt. of Agrilcuture, Ambedkar Nagar
- iii- Deptt. of Husbandry, Ambedkar Nagar
- ii- Deptt. of Fisheries, Ambedkar Nagar

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

[illegible]

Dairy farming	1	23		23	12	1	13	35	1	36
Composite fish culture				0			0	0	0	0
Sheep and goat rearing	1	22		22	9	1	10	31	1	32
Piggery	1	23		23	9	1	10	32	1	33
Poultry farming				0			0	0	0	0
Others (pl. specify)	1	24	1	25	5		5	29	1	30
Total	4	92	1	93	35	3	38	127	4	131
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-pesticides, bio-fertilizers etc.	1	17	3	20	7	3	10	24	6	30
Repair and maintenance of farm machinery and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation	1	18	3	21	3	12	15	21	15	36
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dying etc.										
Agri. para-workers, para-vet training										
Others (pl. specify)										
Total	1	17	3	20	7	3	10	24	6	30
Agricultural Extension										
Capacity building and group dynamics	31	31	31	31	31	31	31	31	31	31
Others (pl. specify)										
Total	31	31	31	31	31	31	31	31	31	31
Grand Total	10	206	15	221	68	29	97	274	44	318

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	154	328		328
Diagnostic visits	233	342		342
Field Day	12	243		243
Group discussions	2	67		67
Kisan Ghosthi	45	7429	36	7465
Film Show	4	254		254
Self -help groups	4	86		86
Kisan Mela	5	17973	112	18085
Exhibition	4	17630	17	17647
Scientists' visit to farmers field	254	1229		1229
Plant/animal health camps	3	143		143
Farm Science Club	3	57		57
Ex-trainees Sammelan	4	125		125
Farmers' seminar/workshop	6	1128		1128
Method Demonstrations	3	15		15
Celebration of important days	7	3481		3481
Special day celebration	3	314		314
Exposure visits	2	1750		1750
Others (pl. specify)				0
Total	748	52594	165	52759

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	1
Extension Literature	4
News paper coverage	136
Popular articles	9
Radio Talks	6
TV Talks	
Animal health camps (Number of animals treated)	2 (219) animals
Others (pl. specify)	
Total	154

Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Aware-ness	Other enterprise	
	Text only	59	23	11		46		138
	Voice only							
	Voice & Text both							
	Total Messages	59	23	11		46		138
	Total farmers Benefitted							12326

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies	3	236	crop/livestock technology
	Lectures organised	17	238	crop/livestock technology
	Exhibition			
	Film show			
	Fair			
	Farm Visit	11	223	
	Diagnostic Practicals	15	34	
	Distribution of Literature (No.)	4	254	
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)	34400	360	
	Bio Product distribution (Kg)			
	Bio Fertilizers (q)			
	Distribution of fingerlings			
	Distribution of Livestock specimen (No.)			
	Total number of farmers visited the technology week	34435	1345	

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

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Wheat	BPW-107,	32	125120	120	
	Paddy	Saju-92	70	231000		
	Total		102	356120	120	
Oilseeds						
Pulses						
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						

Fiber crops						
Forest Species						
Others						
Total						

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings	Vegetable seedlings	Califlower	Girja	6230plants	4900	25
		Cabbage	Diamond Express	6250plants	5000	25
		Chilli	Gomati	6250plants	5000	25
Fruits		Brinjal	Navkiran	6250plants	5000	25
	Fruits	Papya	Madhu	740 plants	3750	25
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings	Napier Grass	Narendra Hybrid Napier-9		18500saplings	18100	58
Forest Species						
Others						
Total				37960	36750	163

Production of Bio-Products

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

Table: Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)	Cary Shyama	600	113100	
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl. specify)				
Fisheries				
Indian carp	Rohu,	132	1840	
Exotic carp	Silvercarp, grass carp	147	1940	
Others (Pl. specify)				
Total		879	116880	

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	462	2014	7	
Water				
Plant				
Manure				
Others (pl.specify)				
Total	462	2014	7	

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted	Date of SAC
Ambedkar Nagar	1	16.01.2022

IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution
Vikash ki Ranhe	1000

X. PUBLICATIONS

Category	Number
Books	
Technical bulletins	4
Research Paper	10
Lead Papers	
Book Chapters	4
Popular Articles	12
Newsletters	1
Technical reports	5
Others (pl. specify)	

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.)
3	1		12420	12

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

Introduction of alternate crops/varieties

Crops/cultivars	Area (ha)	Extent of damage	Recovery of damage through KVK initiatives if any
Total			

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
Total		

Animal health camps organised

Number of camps	No.of animals	No.of farmers
Total		

Seed distribution in drought hit states

Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total			

Large scale adoption of resource conservation technologies

Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Total		

Awareness campaign

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

XIII. DETAILS ON HRD ACTIVITIES

A. HRD activities organized in identified areas for KVK staff by the Directorate of Extension

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

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

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

XIV. CASE STUDIES (CASE STUDIES MAY BE GIVEN IN DETAIL AS PER THE FOLLOWING FORMAT)

Each Zone should propose a minimum of three case studies with good action photographs (with captions on the backside of the hard copy of the photos) on the following topics

- Effective popularization on a larger scale of any one FLD technology and its role in transformation of district agriculture with respect to that particular crop or enterprise*
- Performance of the end results of any one technology assessed, its refinement if any and its impact in district agriculture with respect to that crop or enterprise*
- Effect of production and supply of seeds and planting material / animal breed / or bio-product and its impact on district agriculture with respect to that crop/ enterprise/ bio-product*

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

Name of the KVK

TITLE**Introduction****KVK intervention****Output****Outcome****Impact****CASE STUDIES / SUSCESS STORY-1****Name of KVK-Ambedkar Nagar****Title-Dairy farming a source of generation of income and employment**

NAME OF KVK: KVK, AMBEDKAR NAGAR

Farmer's name: Sri Santosh Kumar Verma

Father,s Name: Shri Lal Chand Verma

Village: Harriya,

Block: Baskhari,

Distt. :Ambedkar Nagar, U.P.

INTRODUCTION:

Sri Santosh Kumar Verma is a progressive youth farmer of Village Harriya, Block- Baskhari, Ambedkar Nagar having 3 acre cultivated land. He received degree of graduation in 2012 and decided doing agriculture as his main occupation with 2-3 dairy animals for self employment living in village.

KVK INTERVENTION:

During year 2020-21 KVK Ambedkar Nagar organized vocational training on Scientific Dairy Farming in which Mr. Santosh Verma participated and learned the skill and knowledge for scientific dairy farming and sowed the eagerness and for dairy farming. During the year 2016-17 in guidance of KVK scientists he established dairy farm of capacity of 25 Holestien Friesian cows with financial assistance taken by Bank and producing more milk and started supply milk to Parag dairy through Dugdh Samiti as his income has gone up. At present he produce about 9000 liters milk monthly with cow dung manures of nearly 100 Q. monthly. This improved his economic condition and family status.

EXPENDITURE &OUTCOMES:**Monthly Expenditure-**

Expenditure on feed & fodder Average Rs. 160/- day /animals: 25x160x30 = Rs. 1, 20,000/-

Labour cost Average 2 Labour per day @ Rs.400/day x30 =Rs. 1, 20, 00/-

Medicine & other miscellaneous expenditure =Rs. 4,000/-

Monthly total Expenditure- =Rs. 1, 36,000/-**Monthly Income-**

Monthly Av. Milk production from 20 dairy cows: 15.40 Liters x 20 x30 = 9240 Litters

Income from milk – 9240 liters milk with av. rate of Rs. 26.5 / liter milk = Rs. 2, 44,860/-

Income from farm yard manure 100Q. @ Rs.200/ Q. = Rs. 20,000/-

Monthly Total income
Net Income

=Rs. 2, 64,860/-
=Rs. 1, 28,860/-

View of Mr. Santosh Kumar Verma dairy farm



IMPACT:

By seeing and believing and success of Mr. Santosh Verma dairy enterprise, other villagers are also trying to start dairy farming and buying Holstein Friesian, Jersey cows and Murrah buffaloes breeds of dairy animals.

CASE STUDIES / SUCCESS STORY -2

TITLE- Scientific tomato cultivation on raised bed and staking method for better production and income.

Name: Sri Ram Sankar Maurya

Father Name: Sri Asha Ram Maurya,

Vill- Naryanpur

Block- Katehari,

District- Ambedkar Nagar, U.P.

Introduction:- Sri Ram Shankar Maura is 28 years He cultivated rice-wheat crops and tomato but he faced poor production of tomato due to attack of diseases and poor fruit quality. He has land holding- 3 acre. Previously, he cultivated rice-wheat crops and tomato some vegetables but he faced poor production due to attack of diseases and poor fruit quality.

KVK interventions and Support:- KVK, Ambedkar Nagar imparted Capacity building Training on Scientific vegetable production in July, 2021 in which Sri Ram Shankar Maura participated and he acquired the knowledge about tomato production on ridge planting, staking method to reduce the weed infestation and moisture loss and disease incidence in the spacing of 75X45 cm., fertilizer dose NPK-120:60:50 kg/ha. The ridge planting, staking in tomato, yield increased up to 52.33% as compared to flat planting (FP) of tomato increase efficient use water, promote the plant growth due to better root development, reduced the water loss, disease incidence and added increases income to the farmers.

Output:- Sri Ram Shankar Maura applied the recommended doses of fertilizers NPK120:60:50 kg/ha in hybrid tomato crop as per suggestion of KVK scientists. He recorded cost of cultivation Rs.62100/ha., gross return- Rs. 280300/ha and B: C ratio-4.5:1. He got total net profit from Tomato Variety-Avinash-1 in one ha.- Rs. 2,18,200/-

Outcome:- The outcome of this demonstration motivated the farming communities of nearby villages to replace their old varieties by Hybrid Tomato varieties. Sri Ram Shankar Maura is very

happy on improvement in their income, livelihood by latest scientific technology of tomato and other seasonal vegetable production.

Impact:- Sri Ram Shankar Maura is becoming one of the progressive and learned farmers for others with regards to popularization of technology of tomato production on raised bed, staking with improved variety. This technology helps him for livelihood, empowerment. Now this techniques is adopted by 12 farmers in his village adopted this technology by seeing and believing.



Field of Sri Rama Shankar Maurya of tomato production on raised bed and staking method

CASE STUDIES / SUSCESS STORY -3

Name of KVK- Name of KVK-Ambedkar Nagar

Title:- Mustard-Pant Yellow Mustard-1 becoming popular in farmers' for their yielding trait.

Name of farmer: Satrugn Singh

Address: Village-Panti, Post-Manshapur

Block-Katehari, District- Ambedkar Nagar,U.P.

Introduion:- Mr. Satrugn Singh, village-Panti & Post- Manshapur Block:Katehari ,District:Ambedkar Nagar, a farmer who was selected for this demonstration. He was earlier involved with local variety of mustard Vardan or Varuna. These varieties were low in yield

Plan, Implement and Support:- KVK Ambedkar Nagar tries to make them aware regarding scientific cultivation of mustard. That starts from land preparation to harvesting. This KVK has encouraged the farmer for soil testing and on the basis of that farmer was advised for balanced dose of chemical fertilizer with high yielding variety DRMRIJ-31 (Giriraj). That was sown on 12-10-2020 with line sowing and fertilizer application was done with basal application in which half dose of nitrogen full dose of SSP and full dose of MOP as recommended. Rest nitrogen used after first irrigation.

Output:- Mr. Satrugn Singh adopted the the balanced dose of chemical, fertilizer (N:P:K:S::120:60:40:30) kg/ha in mustard crop as per suggestion of KVK's scientist for his 0.4ha land. His local yield was 13.20 qt/ha with recommended technology. His yield increased by 15.90% with yield 15.30 qt/ha. The economical gain in terms of per unit expenditure gross income, net return and BCR are recorded. Rs 23400, Rs. 61200, Rs. 37800 and 2.60 correspondingly.

Outcome:- Mustard crop is the major oilseed crop of the district. KVK Ambedkar Nagar conducted 41 demonstrations in 01 village during 2017-18 in an area of 20 ha at farmers' field with using HYV DRMRIJ-31 (Giriraj). and balanced dose of chemical fertilizer (N:P:K:S::120:60:40:30) kg/ha. This variety has been disseminated in 25 villages of the district in area of approximately 90ha. The outcome of this demonstration motivated the farming communities to replace their old varieties, non-descriptive varieties. Mr. Rahul Singh is very happy on improvement in their income, livelihood and set forth example for others.

Impact:- Mr. Satrugn Singh is becoming one of the progressive and learned farmers for others with regards to popularization of DRMRIJ-31 (Giriraj). This technology helps him for livelihood, empowerment and make him enthusiastic regards oilseed production. He is one of the progressive farmer after a becoming a part of KVK activities and get their effectiveness for his own development. Mr. Satrugn Singh is very happy with this improved production and management technology and set forth example for other farmers of the district.



KVK scientists visited field of Mr. Satrugn Singh Mustard field

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