Annual Progress Report (January, 2019- December, 2019)



Submitted by

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PROFORMA FOR PREPARATION OF ANNUAL REPORT (January-2019-December-2019)

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	54	1126	171	1297	
Rural youths	4	50	2	52	
Extension functionaries	7	149	2	151	
Total	65	1325	175	1500	
Sponsored Training	7	1407	182	1589	
Vocational Training					
GT	72	2732	357	3089	

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	150	60	-
Pulses	232	90	-
Cereals	299	36	-
Vegetables	20	1	-
Other crops	0	0	-
Hybrid crops	0	0	-
Total	701	187	
Livestock & Fisheries	0	0	
Other enterprises	5	-	-
Total	5	-	
Grand Total	706	187	

3. Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
Crops	14	66	66
Livestock	2	8	8
Various enterprises			
Total	16	74	74

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	1288	15425
Other extension activities	232	-
Total	1520	15425

5. Mobile Advisory Services

		Type of Messages								
Name of KVK	Message Type Text only	Crop	Livestock	Weather 18	Marke- ting	Aware -ness 421	Other enterprise 29	Total		
		510			52			1064		
	Voice only	29	13	06	03	28	05	84		
	Voice & Text both	00	00	00	00	00	00	00		
	Total Messages	539	47	24	55	449	34	1148		
	Total farmers Benefitted=34829									

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.	Distributed to No. of farmers
Seed (q)	419	545500/-	Supply to UP Govt.
Planting material (No.)	14625	5500/-	39
Bio-Products (kg)	-	-	-
Livestock Production (No.)	-	-	-
Fishery production (No.)	45 Kg.	5951/-	-

7. Soil, water & plant Analysis

Type of Samples	No. of samples analysised	No. of Beneficiaries	Value Rs.
Soil	2063	2063	-
Water	-	-	-
Plant	350	350	-
Total			

8. HRD and Publications

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

DETAIL REPORT OF APR (Jan.2019 to Dec. 2019)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephon	e	E mail
	Office FAX		
Mahayogi	0551-	0551-	
Gorakhnath Krishi	2255453	2255455	
Vigyan Kendra,	2255454		
Chauk Mafi			gorakhpurkvk2@gmail.com
(Peppeganj), Jangal			
Kaudia, Gorakhpur,			
(U.P.)			

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

Address	Telephone		E mail
	Office FAX		
Guru Gorakshnath			
Sewa Santhan, Sri	0551-	0551-	gorakhpurkvk2@gmail.com
Gorakhnath Mandir,	2255453,	2255455	
Gorakhpur	54		

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

Name	Telephone / Contact					
	Residence	Mobile	Email			
Dr. Rajendra Pratap Singh	-	9532460717 9648448405	gorakhpurkvk2@gmail.com			

1.4. Year of sanction: 2016

1.5. Staff Position (as on 31th December, 2019)

SI. No.	Sanctioned post	Name of the incumbent	Design- ation	Discip-line	<mark>Pay</mark> Scale (Rs.)	Present basic (Rs.)	Date of joining	Perman- ent /Temp- orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Programme Coordinator	Dr. Rajendra Pratap Singh	Sr. Scientist and Head	Plant Pathology	37400- 67000	49240	26/05/2017	Temporary	Others	9648448405 9532460717	49	rpskvk.22@gmail.com
2	Subject Matter Specialist	Dr. Vivek Pratap Singh	SMS	Animal Husbandary and Dairying	15600- 39100	22280	31/07/2017	Temporary	Others	9415745095		vpslpm@gmail.com
3	Subject Matter Specialist	Dr. Ajit Kumar Srivastava	SMS	Horticulture	15600- 39100	22280	01/08/2017	Temporary	Others	8787264166		ajiticar@gmail.com
4	Subject Matter Specialist	Dr. Rahul Kumar Singh	SMS	Agri. Extension	15600- 39100	22280	01/08/2017	Temporary	Others	9454054072		rahulrrext91@gmail.com
5	Subject Matter Specialist	Mr. Avanish Kumar Singh	SMS	Agronomy	15600- 39100	22280	01/08/2017	Temporary	Others	9792099943		avanishsinghicar@gmail.com
6	Subject Matter Specialist	Mr. Sandeep Prakash Upadhyay	SMS	Soil Science	15600- 39100	22280	01/08/2017	Temporary	Others	9690475529		sandeepupadhyay383@gmail.com
7	Subject Matter Specialist	Vacant	SMS	Home Science								
8	Programme Assistant Computer	Gaurav Kumar Singh	Programme Assistant- Computer	IT	9300- 34800	37600	14/08/2017	Temporary	Others	9838674999		vishengaurav@gmail.com
9	Programme Assistant Lab Technician	Jitendra Kumar Singh	Programme Assistant	Lab. Technician	9300- 34800	36500	14.08.2018	Temporary	OBC	9956912021		jitendra.s273158@gmail.com
10	Farm Manager	Ashish Kumar Singh	Programme Assistant	Farm Manager	9300- 34800	36500	14.08.2018	Temporary	Others	7752941868		ashishksingh1994@gmail.com
11	Accountant / Superintendent	Shubham Pandey	Assistant	Assistant	9300- 34800	36500	14.08.2018	Temporary	Others	7752941868		luckywatson123@gmail.com
12	Stenographer	Vacant	Stenographer									

			Grade-III								
13	Driver	Sanjay Kumar Yadav	Driver-cum- Mechanic	Driver	5200- 20200	22400	14.08.2018	Temporary	OBC	9415853387	sanjayyadavmgkvk@gmail.com
14	Driver	Dinesh Rao	Driver-cum- Mechanic	Driver	5200- 20200	22400	14.08.2018	Temporary	OBC	9695713464	dineshgkp1991@gmail.com
15	Supporting staff	Jai Prakash Singh	Supporting Staaf Grade- I	Skilled Supporting Staaf	5200- 20200	18500	14.08.2018	Temporary	Others	8545003001	jaiprakashsingh1005@gmail.com
16	Supporting staff	Abhimanyu Kumar Verma	Supporting Staff Grade-I	Skilled Supporting Staff	5200- 20200	18500	14.08.2018	Temporary	OBC	9918989802	abhimanyuverma0808@gmail.com

1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	0.80
2.	Under Demonstration Units	-
3.	Under Crops	12
4.	Orchard/Agro-forestry	-
5.	Others (specify)	-

:

1.7. Infrastructural Development:

A) Buildings

		Source		Stage						
S.	e		(Complete			Incomplete			
No.	Name of building	funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction		
1.	Administrative	ICAR	2 March	-	144.09					
	Building		2019		Lakh					
2.	Farmers Hostel	ICAR	Under	-	66.41 Lakh					
			COnstruction							
3.	Staff Quarters (6)	ICAR	Completed	-	61.52 Lakh					
4.	Demonstration Units (2)									
5	Fencing									
6	Rain Water									
	harvesting system									
7	Threshing floor									
8	Farm godown									

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (UP 53 CL 5201)	2017	9.55	600	Good Condition
Bolero (UP 53 AG1220)	2019	6.50	120	Good Condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Groundnut Decorticator	2019	5389	Good Condition
UMMB machine	2019	11006	Good Condition

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

SI.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.		1. Dr. V.M. Mayande, Vice-	1	1
		<mark>chancellor, Dr. P.D. K.V. Akola</mark>	2	2
		2. Dr. N. Sudhakar, Director, ICAR-	3	3
		ATARI, Hyderabad	4	4
		Dr. S.R. Khonde, Director of	5	5
		Extension, Dr. P.D. K.V, Akola	6	6
		4. Dr. Vijaya Kumar, Director, AIR	7	7

<mark>5</mark>	8	8
7	9	
<mark>8</mark>		

Note : This yellow mark may be treated as an example * Attach a copy of SAC proceedings along with list of participants

2. DETAILS OF DISTRICT (2019)

2.1	Major farming systems/enterprises (based on the analysis made by the KVK)
S.	Farming system/enterprise
Ν	
0	
1.	Crop Production + Livestock
2.	Crop Production + Poultry
3.	Crop Production + Fisheries
4.	Crop Production + Vegetable Production
1.	Crop Production + Vegetable Production + Orchard

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

S. No	Agro-climatic Zone	Characteristics
1.	AES-1 (Sandy loam)	Poor water holding capacity
2.	AES-2 (Silty loam, Khadar Soil)	Medium water holding capacity
3.	AES-3 (Clay Loam)	Good water holding capacity

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha	
1.	AES-1	Soil Type-Sandy	160952	
		loam	100932	
2.	AES-2	Soil Type-Silty	121714	
		loam, Khadar Soil	121/14	
3.	AES-3	Soil Type-Clay	52651	
5.		Loam	52051	

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

S. No	Crop	Área (ha)	Production (Qtl)	Productivity (Qtl /ha)		
Α	A FIELD CROPS INCLUDING OIL SEEDS AND PULSES					
1.	Paddy	152497	202895	15.26		
2.	Maize	3299	4281	12.98		
3.	Jowar	27	37	13.70		
4.	Bajra	369	-617	16.72		
5.	Arhar	8659	4978	5.75		
6.	Urd	24	09	3.73		
7.	Moong	02	01	2.77		
8.	Ground Nut	2547	1508	5.92		
9.	Til	75	12	1.62		
10.	Wheat	190499	448884	23.89		

8

				9
11.	Barley	708	1388	19.60
12.	Gram	668	544	8.15
13.	Pea	2766	3587	12.97
14.	Lentil	2275	2067	9.08
15.	Mustard	3492	2373	6.80
16.	Linseed	47	02	4.20
17.	Sugarcane	3955	209034	528.53
В	FRUITS			
1.	Banana	6600	264000	40.00
2.	Mango	5500	38500	07.00
3.	Guava	1550	15500	10.00
4.	Litchi	200	13000	06.50
5.	Jamun	100	500	05.00
6.	Papaya	50	500	10.00
7.	Jackfruit	40	360	09.00
8.	Citurs	20	160	08.00
С	VEGETABLES			
1.	Potato	5000	125490	250.90

2.5. Weather data

Month	Rainfall (mm)	Tempe	Relative Humidity (%)	
		Maximum	Minimum	

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

Category	Population	Production	Productivity
Cattle		•	· · · · · ·
Crossbred			
Indigenous			
Buffalo			
Sheep			
Crossbred			
Indigenous			
Goats			
Pigs			
Crossbred			
Indigenous			
Rabbits			
Poultry			
Hens			
Desi			
Improved			
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish			
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Campier ganj	Jungle Kaudia	Chauk Mafi, Badhya chouk, Madaha , Rajabar i, Ranana diha, Majhau na Sakhi,	Rice, Wheat, Arhar, Mustard, Gram, Potato, Tomato, Bitter Gourd, Cucumber, Pumpkin, Ridge Gourd & Cattle	Low Yield, Anestrus and malnutrition in animal, weed infestation, pod-borer in pea, chick pea, Pigeon pea, soil erosion, less use of organic manure, Lack of awareness on post- harvest technology, value addition and drudgery reduction, Lack of timely information and technical guidance, Lack of knowledge about identification of insect-pest and different symptoms of diseases and pest attack	To improve productivity per unit area through Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, Integrated Weed Management, Seed production technology Maintenance of Old Orchard, Integrated pest management, Resource Conservation Technology, Kitchen gardening for production of nutritional food by women farmers, Raising productivity of livestock by upgrading the genetic potential by artificial insemination and use of mineral mixture, proper feeding and management, Post-Harvest management of food grain seed, fruits, vegetables, milk and milk products, less use of organic manure
2.	Campier ganj	Campier ganj	Bhaghi bhari, Atkawa , Mithour i, Kalyan pur, Ramcha ura,Bha gwanpu	Rice, Wheat, Arhar, Mustard, Gram, Potato, Tomato, Cucumber, Pumpkin, Banana, Mango	Incidence of insect- pest and diseases in cereals, pulses, oilseeds, fiber, sugarcane, forage, vegetable, fruit and ornamental crops, Lack of awareness about production and management of livestock's, vaccination and important disease problem in livestock	do

2.7 Details of Operational area / Villages (2019)

						11
3.	Sadar	Bhathat	Sarhare, Tikariy a, Jungle dumri Chakjal al Aurang abad	Gram, Potato, Tomato, Bottle Gourd, Cucumber, Pumpkin	Lesser adoption of Good Agronomical Practices (GAP) like summer ploughing and destruction of stubbles, line sowing and raised bed planting method, intercropping, crop rotation, green manuring and application of neem cake, ground nut cake for pest management, Lack of knowledge about HYV of horticultural crops and latest production technology	do
4.	Sahjanw a	Pali	Usri, Madar, Bharpa hi, Bhaksa, Musthaf abad,	Rice, Wheat, Arhar, Mustard, Gram, Potato, Tomato, Ridge Gourd, Banana, Mango, Cattle	Lesser adoption of seed treatment technique and use of higher doses of pesticides in vegetables and cereals. Low consumption and injudicious use of pesticides in rice, wheat, pulses, fiber and fruit plants. Higher doses and frequently usage of chemical pesticides in vegetable crops.	Do
5.	Sadar	Chargaw an	Bisunpur, Jangal aurahi, Lakshmip ur, Parmesha rpur, Jungle Dhushan, Siktor, Maniram, Sonbarsh a	Wheat, Arhar, Mustard, Gram, Potato, Tomato, Bottle Gourd, Cucumber, Pumpkin, Ridge Gourd, Banana, Mango	do	do

						12
6.	Sadar	Pipraich	Mohanp ur, Baraipu r, Bela, Bhaisah a, Gaura, Gopalp ur, Kushmi	Arhar, Mustard, Gram, Potato, Tomato, Bottle Gourd, Cucumber, Pumpkin, Ridge Gourd, Banana, Mango, Buffalo	do	do
7.	Chauri Chaura	Sadar Nagar	Bardi, Bhagwa npur,Ch aura, Devipur , Sariyaiy a, Bhauap ar	Rice, Wheat, Arhar, Mustard, Gram, Potato, Tomato, Bottle Gourd, Cucumber, Pumpkin, Ridge Gourd, Banana, Mango, Cow	do	do
8.	Sadar	Khorabar	Bhumih ari, Amhiya , Bhaisah a	Rice, Wheat, Arhar, Mustard, Gram, Potato, Tomato, tree plantation, Mango, goat	do	do

						13
9	Sahjanw a	Sahjanw a	Keshok urha, Bhimap ar, Keshav pur, Gahash ad, basia bhagaur a	Rice, Wheat, Arhar, Mustard, Gram, Potato, Tomato, Pumpkin, Ridge Gourd, Banana, Mango, Buffalo, cow	do	do

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Crop Production	Production Technology for kharif, rabi and zaid crop. Improved
crop i roduction	Production Technology through mechanization
RCT	Promotion of resource conservation technology
Entrepreneurship	Entrepreneurship development in rural youth
Drudgery reduction	Drudgery reduction technology and Drudgery reducing farm implements among farm women
Horticultural crops	Promotion of high value horticultural crop, Quality seed/planting material production
Live stock	Raising productivity of livestock, upgrading genetic potential through artificial insemination, use of mineral mixture, disease and
	parasitic control, proper feeding and management
Organic inputs production	NADEP and Vermi-composting
IPM	Promotion of Integrated Pest Management strategies for safe food
11 1/1	production and environment protection
INM	Promotion of site specific nutrient management through INM for sustainable soil health
Kitchen Gardening	Nutritional security through kitchen gardening
Cucurbitaceous	Introduction of HYV, integrated disease/pest management, integrated
(bottle gourd, pumpkin, sponge gourd, bitter gourd etc.), groundnut, potato	nutrient management
Rice, Wheat, Pulses	Introduction of HYV, Integrated Nutrient Management, Integrated Disease
(Pigeon pea, chick pea, lentil, field pea,	Management, Resource Conservation Technology, Integrated Weed
urd and moong)	Management, Seed production technology
Cole crop(cauliflower, cabbage),	Introduction of HYV, integrated pest and disease management, integrated
Tomato, Okra, Chilli	nutrient management

* An example for guidance only

2.9 Intervention/ Provide the Intervention of	ogrammes for th	ne doubling the fa	<u>rmers income – d</u>	luring 2019	Demonstra	ations	
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 i any
Intercropping							
System(Kharif-Rabi-							
Zaid) -Livestock etc.							
Discussion Irrigation	Fertilizers Lab	our Land Preparat	ion Seed Plant pr	rotection (Weed, Pest, diseas	2e) *		
After	Main crop	Inter crop	Equivalent	Cost of	Net income(Rs/ha)	B.C:	Remark if
Interventions	Yield(q/ha)	Yield(q/ha)	yield(q/ha)	cultivation(Rs/ha)*		Ratio	any
Intercropping							
System(Kharif-Rabi-							
Zaid) -Livestock etc.							
U	1			rotection (Weed, Pest, diseas	· ·		
Before	Main crop	Inter crop	Equivalent	Cost of	Net income(Rs/ha)	B.C:	Remark if
Interventions	Yield(q/ha)	Yield(q/ha)	yield(q/ha)	cultivation(Rs/ha)*		Ratio	any
Mono Cropping							
System(Kharif-Rabi-							
Zaid) -Livestock etc.							
	L						

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
Mono Cropping System(Kharif-Rabi- Zaid) -Livestock etc.							

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

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

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

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

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

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

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

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

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

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

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

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

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

3. TECHNICAL ACHIEVEMENTS

OFT <mark>(1</mark>	Cechnology Asse	ssment and	I Refinement)	FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)				
Num	ber of OFTs	1 Total	no. of Trials	2 Area in ha Number of Farme				
Targets	Achievement	Targets	Targets Achievement		Achievement	Targets	Achievement	
16	16	74	74	187	187	706	706	

3.A. Details of target and achievements of mandatory activities by KVK during 2019

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit) 3 Number of Courses Number of						Extension Activities			
						4 Number of Number of partic			
			Par	ticipants	activ	activities			
Clientele	Targets	Achieveme nt	Target s	Achieveme nt	Targets	Achiev ement	Targets	Achieveme nt	
Farmers	54	54	1080	1297	1050	1288	12500	15425	
Rural youth	4	4	50	52	115	232	Mass	Mass	
Extn. Functionaries	7	7	105	151					

	Seed Production	(Qtl.)	Planting material (Nos.)				
	5			6			
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers		
200	419	Supply to UP Govt.	20000	14500	25		

S	Soil/plant/water Analysis						
	5						
Target	Target Achievement No. of farmers						
		covered					
3000	2063	2063					
250	350	350					

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various CrOPS by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of far mer s
Integrated Nutrient Management	Paddy	Assessment of zinc sulphate and biofertilizer with application of 20% less fertilizer in paddy for yield maximization. (2019-20)	3	
	Caulifl ower	Assessment of efficient use of nutrient management in Cauliflower. (2019-20)	4	
		Assessment of efficient use of Ferrous Ammonium Sulphate with HYV of tomato for yield maximization. (2019-20)	4	
	pea		3	
	lli	Assessment of plant growth hormone in chilli	5	
Varietal evaluation	Pea		3	
	Pea		3	
	rd		3	
	rd		3	
	Wheat	Assessment of high yielding wheat variety DBW 187 under timely sown irrigated condition (2018-19)	3	
Integrated Pest Management	Chick pea	Assessment of IPM strategies for pod borer management in chick pea (2018-19)	4	
	Chick pea	Assessment of IPM strategies for pod borer management in chick pea (2019-20)	4	
Integrated Crop Management				
Integrated Disease Management	Paddy	False smut management in paddy. (2019-20)	4	
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Post Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				-
Others (Pl. specify)		Testing audio-visual aids training module in Gorakhpur districts	20	
Total		<u> </u>	66	

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Disease Management				
Evaluation of Breeds				
Feed and Fodder management	Buffalo	Assessment of conventional and Bye-Pass animal feed to enhancing milk	3	3
		yield. (2018-19)		
Nutrition Management	Cow	Assessment of urea molasses mineral bricks animal feed supplementation to control the infertility. (2018-19)	5	5
Production and Management				
Others (Pl. specify)				
Total			8	8

Summary of technologies assessed under livestock by KVKs

Summary of technologies assessed under various enterprises by KVKs

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

Note: Suppose **IPM in paddy** is the technology assessed by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with 50*5 = 250 trials and No. of KVKs will be 50. 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 IN DETAIL

PEST AND DISEASE MANAGEMENT (Chick Pea) OFT-1 [2018-19]

Problem definition: Low yield of Chickpea due to severe infestation of pod borer and it accounting for 75% pod damage in crop.

Technology Assessed: Assessment of IPM strategies for pod borer management in chick pea

Chick Pea is a major pulse crop of Rabi season. The low yield of chick pea was recorded due to severe infestation of pod borer (*Helicoverpa armigera* Hubner). The problem was identified with concerned village persons during survey and KVK conducted on farm trial to assess the control measures. The different IPM strategies i.e. proper tillage, line sowing and inter cropping with coriander/linseed, HYV GNG 1581, seed treatment with Carbendazim @ 2gm/kg of seed for management of collar rot and spray of Emamectin Benzoate 5% SG @ 0.4 gm/liter water at 50% flowering and at 50% pod filling stage were comprised under on farm trial. There was less infestation of plants/m² and pod/plant with application of IPM strategies. The average yield of 15.83 q/ha was obtained from the demonstration plot whereas 11.75 q/ha from farmers practice and yield was increased by 34.72 per cent.

Table:- Performance of management s	strategies of Pod borer in Chick Pea
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Technology Option	No. of Trials	% of Affected plants/m ²	% of damaged pod/plant	Yield (q/ha)	%increase in yield over farmers practice
1	2	3	4	5	6
Indiscriminate use of pesticide	04	18.00	14.50	11.75	-
Use of IPM strategies		10.00	8.00	15.83	34.72

Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
7	8	9	10
16895	47000	30105	2.78
20195	63320	43125	3.14

PEST AND DISEASE MANAGEMENT (Paddy) OFT-2 [2019-20]

Problem definition: False smuts have recently become an important disease in paddy and causes both quantitative and qualitative losses.

Technology Assessed or Refined (as the case may be): False smut management in paddy.

The disease can occur in areas with high relative humidity (>90%) and temperature ranging from 25–35 °C. Rain and high humidity and soils with high nitrogen content also favor disease development. The pathogen also survives through alternate host viz., barnyard grass (*Echinochloa crusgalli*) and common rice

weed *Digitaria marginata*. Wind can spread the fungal spores from plant to plant. False smut symptoms produced are visible after flowering only. The integrated approaches i.e. recommended dose of nitrogen (120kg/ha), weed management with Bispyribac-sodium10% EC @ 250 ml/ha at 20 days after transplanting and Tebuconazole 25.9% EC @ 1 ml/liter water at panicle initiation were comprised under on farm trial. The incidence of false smut in paddy was recorded 8.65% in demonstration plot while it was 21.11% in farmers practice. The average yield of 53.00 q/ha was obtained from the demonstration plot whereas 44.50 q/ha from farmer practices and yield was increased by 19.10 per cent. Percent disease reduction was recorded 59.02% with application of IDM strategies. Farmers accepted and appreciated the technology.

Technology Option	No. of Trials	Avg. infected panicle/hill	Avg. infected panicle/m ²	Yield (q/ha)	%increase in yield over farmers practice	Disease incidence (%)
1	2	3	4	5	6	
Farmers practice (No control measure adopted/improper use of fungicides) (FP)	04	4.75	6.25	44.50	-	21.11
Use of integrated approach		2.25	2.75	53.00	19.10	8.65

Technology Option	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
	7	8	9	10
Farmers	27250	80100	52850	2.94
practice				
Use of	28550	95400	66850	3.34
integrated				
approach				

PEST AND DISEASE MANAGEMENT (Chick Pea) OFT-3 [2019-20]

Problem definition: Low yield of Chickpea due to severe infestation of pod borer and it accounting for 75% pod damage in crop.

Technology Assessed: Assessment of IPM strategies for pod borer management in chick pea

Chick Pea is a major pulse crop of Rabi season. The low yield of chick pea was recorded due to severe infestation of pod borer (*Helicoverpa armigera* Hubner). The problem was identified with concerned village persons during survey and KVK conducted on farm trial to assess the control measures. The different IPM strategies i.e. proper tillage, line sowing of HYV RVG 202 have been sown on farmers field. The insecticide Methomyl 40% SP will be spray at 50% flowering and at 50% pod filling stage. The infestation of plants/m² and pod/plant, yield data, farmers' reaction and other parameters will be recorded in use of IPM strategies as well as farmers' practice.

Table:- Performance of management strategies of Pod borer in Chickpea

Technology Option	No. of Trials	% of Affected plants/m ²	% of damaged pod/plant	Yield (q/ha)	%increase in yield over farmers practice
1	2	3	4	5	6
Indiscriminate use of pesticide Use of IPM strategies	04		Results	awaited	

Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
7	8	9	10

VARIETAL EVALUATION (Pigeon pea) OFT-4 [2018-19]

Problem definition: Lower Productivity and profitability in Pigeon pea cultivation due to use of old and mixed varieties.

Technology Assessed: Assessment of high yielding variety of Pigeon pea

Pigeon pea is the most important Kharif pulse crop of Uttar Pradesh. The productivity of pigeon pea crop of Uttar Pradesh and in district Gorakhpur is quite low as compare to production potential. Among various constraints like lack of knowledge about suitable location specific variety, unavailability of quality seeds in time, use of old and mix variety, poor crop management and protection technologies assume primary position for considering the facts of low yield of pigeon pea. To replace this anomaly, the MGKVK, Gorakhpur conducted on farm trial on assessment of HYV of pigeon pea i.e. IPA 203 with recommended practices. The grain yield i.e. 14.66q/ha was recorded in demonstrated technology which was 57.63 % more over farmers practice (9.30 q/ha) and net return Rs. 52015/ha was recorded in IPA 203 as compared to the farmers practice (Rs. 27450/ha). Farmers accepted and appreciated the demonstrated technology.

Table:-Performance of HYV Pigeon pea Variety IPA 203 under Timely Sown Irrigated Condition

Technology Option	No. of Trials	Plant height (cm)	No of Grain /pod	Grain Yield q/ha	% Increa se in Yield	Gross Cost Rs/ha	Gross Returns Rs/ha	Net Returns Rs/ha	B:C Ratio
Pigeon pea old and mixed variety (Farmers Practice)	03	315	03	9.30	-	19050	46500 @50.00/kg	27450	2.44
IPA 203		205	04	14.66	57.63	21255	73300 @50.00/kg	52015	3.44

VARIETAL EVALUATION (Pigeon pea) OFT-5

[2019-20]

Problem definition: Lower Productivity and profitability in Pigeon pea cultivation due to use of old and mixed varieties.

Technology Assessed: Assessment of high yielding variety of Pigeon pea

Pigeon pea is the most important Kharif pulse crop of Uttar Pradesh. The productivity of pigeon pea crop of Uttar Pradesh and in district Gorakhpur is quite low as compare to production potential. Among various constraints like lack of knowledge about suitable location specific variety, unavailability of quality seeds in time, use of old and mix variety, poor crop management and protection technologies assume primary position for considering the facts of low yield of pigeon pea. To replace this anomaly, the MGKVK, Gorakhpur is conducting on farm trial on assessment of HYV of pigeon pea i.e. IPA 203 & NA-2 with recommended practices. Yield, plant height, no. of seed/pod, no. of pods/plant, no. of branches/plant and other parameters data will be recorded.

Table: -Performance of HYV Pigeon pea Varieties IPA 203 & NA-2 under Timely Sown Irrigated Condition

Technology Option	No. of Trials	Plant height (cm)	No of Grain /spike	Grain Yield q/ha	% Increase in Yield	Gross Cost Rs/ha	Gross Returns Rs/ha	Net Returns Rs/ha	B:C Ratio
Pigeon pea old and mixed variety (Farmers Practice) IPA 203 NA-2	03				Results	awaited			

VARIETAL EVALUATION (Mustard) OFT-6

[2018-19]

Problem definition: Lower Productivity and profitability in Mustard cultivation due to use of old and mixed varieties.

Technology Assessed: Assessment of yield performance of Mustard through HYV

Mustard is one of the most important rabi oilseed crops, widely cultivated throughout the country. The yield of Mustard is being lowered down due to lack of knowledge about suitable location specific variety and unavailability of quality seed among farming community. Farmers are used old and mix variety so that they are not getting higher yield. The MGKVK, Gorakhpur conducted on farm trial on assessment of HYV of Mustard RH 749 with proper management practices. Higher grain yield 18.66q/ha and net return Rs. 61578/ha was recorded in demonstrated technology as compared to the farmers practice with average yield 12.5 q/ha and net return of Rs. 19845/ha. Farmers accepted and appreciated the demonstrated technology.

Table:-Performance of HYV mustard Varieties RH 749 under Timely Sown Irrigated Condition

Technology Option	No. of Trials	No of siliquae	Grain Yield q/ha	% Increa	Gross Cost	Gross Returns	Net Returns	B:C Ratio
		/plant		se in Yield	Rs/ha	Rs/ha	Rs/ha	
old and mixed variety (Farmers Practice)	03	180	12.5	-	21405	41250 @33.00/kg	19845	1.92
RH 749		310	18.66	49.28	23160	61578 @33.00/kg	38418	2.67

VARIETAL EVALUATION (Mustard) OFT-7 [2019-20]

Problem definition: Lower Productivity and profitability in Mustard cultivation due to use of old and mixed varieties.

Technology Assessed: Assessment of yield performance of Mustard through HYV

Mustard is one of the most important rabi oilseed crops, widely cultivated throughout the country. The yield of Mustard is being lowered down due to lack of knowledge about suitable location specific variety and unavailability of quality seed among farming community. Farmers are used old and mix variety so that they are not getting higher yield. To replace this anomaly, the MGKVK, Gorakhpur is conducting on farm trial on assessment of HYV of Giriraj with recommended practices. Yield, no. of siliqua/plant, no. of branches/plant, no. of siliqua/plant, percent increase in yield and net returns will be recorded.

Table:-Performance of HYV mustard Variety Giriraj under Timely Sown Irrigated Condition

Technology Option	No. of Trials	No of siliquae /plant	Grain Yield q/ha	% Increa se in Yield	Gross Cost Rs/ha	Gross Returns Rs/ha	Net Returns Rs/ha	B:C Ratio
old and mixed variety (Farmers Practice) Giriraj	03			I	Results awa	ited		

VARIETAL EVALUATION (OFT-Wheat) OFT-8 [2018-19]

Problem definition: Low yield of wheat as compared to newly released wheat variety DBW 187.

Technology Assessed: Assessment of high yielding wheat variety DBW 187 under timely sown irrigated condition.

Wheat (*Triticum aestivum* L.) is one of the most common cereals crops grown in rabi season under irrigated condition. Wheat variety HD 2967 is most popular among the farmers of district Gorakhpur but lower productivity has been identified due to continuous use of this variety and also as compared to newly released wheat variety DBW 187. The MGKVK Gorakhpur conducted on farm trial to assess the HYV of wheat DBW 187 to enhance the productivity and profitability of farmers. Higher grain yield 59.71 q/ha was recorded in demonstrated plots which was 25.70 per cent more over farmers practice (47.50 q/ha) and net return Rs.56065.50/ha received under assessed trial while under existing practices was Rs. 37750.00/ha.

Table:-Performance of high yielding wheat varieties DBW-187 under Timely Sown Irrigated Condition

Technology Option	No. of Trial s	No of tillers/h ill	Plant height (cm)	No of Grain /spike	Grain Yield q/ha	% Increa se in Yield	Gross Cost Rs/ha	Gross Returns Rs/ha	Net Returns Rs/ha	B:C Ratio
Wheat Variety HD-2967 (Farmers Practice)	05	12	98.00	79	47.50	-	33500	71250 @15.00/kg	37750	2.12
DBW 187		21	100.00	88	59.71	25.70	33500	89565 @15.00/kg	56065	2.67

INTEGRATED NUTRIENT MANAGEMENT

(OFT-Paddy) OFT-9

[2019-20]

Problem Definition: Low yield in Paddy due to use of imbalanced dose of fertilizer and no use of biofertilizer.

Technology Assessed: Assessment of zinc sulphate and biofertilizer with application of 20% less fertilizer in paddy for yield maximization.

Paddy (*Oryza sativa*) is one of the most common cereals crops grown in *Kharif* season under irrigated condition. The yield of paddy is being lowered down due to use of imbalanced dose of chemical fertilizer and no use of zinc sulphate and *Azotobacter*. MGKVK Gorakhpur has designed On Farm Trial in paddy crop for yield maximization. The assessed technology of 20% less chemical fertilizer (100:40:40::N:P:K kg/ha) + zinc sulphate 33% @ 2% (three foliar application i.e. 15, 30 and 45 DAT) and *Azotobacter*-1x10⁸cfu @200 ml/acre (as soil application @200 mL/acre + 50 kg FYM before 24 hours of transplanting) were comprised in paddy variety Sambha Sab 1. The demonstrated technology yielded 51.83 q/ha yield which was 23.40% higher over farmer's practice (42.00 q/ha). The other traits like number of effective tillers/plant, number of grains/spike and plant height were recorded more i.e. 20, 268 and 97 respectively in demonstrated technology as compared to farmer's practices. Farmers accepted and appreciated the demonstrated technology.

Table: Effect of balanced dose of chemical fertilizer with *Azotobacter* in paddy

Technology Option	No.of trials	No of tillers/plants	No of grains/spike	Plant height(cm)	Yield (q/ha)	%increase in yield
T-1: Farmers Practice (170:40:0::N:P:K)kg/ha and no use of zinc		15	208	83	42.00	-
sulphate &Azotobacter T-2: Sambha sab 1+ 20% less dose of chemical Fertilizer(100:40:40::N :P:K)kg/ha+zinc sulphate33% @2% foliar spra, Azotobacter @200ml/acre.		20	268	97	51.83	23.40

Technology Option		Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
T-1:	Farmers	26550	75600	49050	2.84
Practice					
T-2:Demor	nstration	28750	93294	64544	3.24

LIVE STOCK ENTERPRISES (Cows) OFT-10 [2018-19]

Problem definition: High incidence of infertility in cows.

Technology Assessed or Refined (as the case may be): Assessment of urea molasses mineral bricks animal feed supplementation to control the infertility.

MGKVK Gorakhpur conducted PRA to identify high incidence of infertility in cow and on farm trial were formulated and conducted. However, the successful treatment and control of mineral deficiencies in effective and practical method of supplementation of UMMB for the effect of general health condition and reproductive performance of cows.

Table Effect of UMMB in the control of infertility in cows

Technology Option	No. of trials	Conception rate (%)	Growth increased (%)	Estrus cycle regularity (days)
Use of common salt (Farmers practice)	3	40	4.10	21
Use of UMMB @ 1 Bricks for 7 days/ animal (recommended practice)	3	100	7.07	21

LIVE STOCK ENTERPRISES (Buffalo) OFT-11 [2018-19]

Problem definition: Low milk and income due to conventional ration feeding

Technology assessed: Assessment of conventional and Bye-Pass animal feed to enhancing milk yield.

Low milk production in buffaloes due to no use of balance ration found during PRA. MGKVK conducted OFT to find out suitable measure for enhance milk production in buffaloes. The technology recommended was fine tune by introducing Bye-Pass animal feed to enhance yield.

Table Effect of of Bye-Pass animal feed to enhance milk yield

Technology option	No of Trial	Average Milk Yield (ltr)	Increase milk yield %	Gross Cost	Gross Return	Net Return (Rs./ ltr.)	BC Ratio
Use of choker and cakes (Farmers Practice)	5	5.65	-9.67	157	226	69	1.44
Use of Bye-Pass animal feed @ 4kg/day/animal	5	6.8	16.47	141.5	272	130.5	1.92

NUTRIENT MANAGEMENT OFT-12 [2019-20]

Problem definition: Low yield of Cauliflower due to imbalance uses of nutrient.

Technology Assessed: Assessment of efficient use of nutrient management in Cauliflower.

Cauliflower is one of the most important cole crop in the Gorakhpur district but the productivity of cauliflower is low due to imbalance use of chemical fertilizer. Cauliflower is a heavy feeder of nutrients. Application of nitrogen increased the curd yield and quality. The major nutrients viz., N, P and K are supplied to the crop through soil application. The efficiency of fertilizers applied in soil is low due to various losses and fixation in soil. Foliar application of nutrients eliminates the problems like fixation and immobilization. Foliar application of nitrogen had affected on diameter and fresh weight of curd. Phosphorus is a constituent of nucleic acid, phytin and phosphorus. It is also an essential constituent of majority of enzymes which are of great important in the transformation of energy in carbohydrate and fat metabolism and also in respiration in plants. Potassium imparts increased vigour and disease resistance to plant. It also regulates water conduction within the plant cell and water loss from the plant by maintaining the balance between anabolism, respiration and transpiration. Keeping in view, the present OFT conduct at MGKVK, Gorakhpur took up on-farm trial on nutrient management in Cauliflower with spray of soluble fertilizer 18:18:18 NPK @ 0.5% at 20, 30 DAT. The study revealed that the yield 195.5 q/ha by the foliar spray of 18:18:18 NPK over without spray yielded 161.75 q/ha. The wholesale market rate of the cauliflower ranges @ 28/kg. The net return from the demo field is Rs.412400/ha with 4.45 B:C ratio in comparison to Rs. 342900/ha with B:C ratio of 4.11 of farmers practice. The results indicated that the use of spray of soluble fertilizer 18:18:18 NPK @ 0.5% at 20, 30 DAT gave 20.86 per cent increase in yield over without spray of NPK as foliar spray.

Table: Effect of Cauliflower HYV (Kashi Gobhi - 25) + spray of soluble fertilizer 18:18:18NPK @0.5% at 20, 30 DAT

Technology Option	No.of trials	Yield (qt./ha)	Increase in yield (%)	Gross cost	Gross return	Net Return (Rs./ha)	B:C Ratio
T1:- Farmers practice (Without spray)		161.75		110000	452900	342900	4.11
T2:- HYV (Kashi Gobhi-25) + spray of soluble fertilizer 18:18:18NPK @ 0.5% at 20, 30 DAT	4	195.5	20.86	123000	547400	412400	4.45

NUTRIENT MANAGEMENT OFT-13 [2019-20]

Problem definition: Low yield of tomato due imbalanced use of nutrient.

Technology Assessed: Assessment of efficient use of Ferrous Ammonium Sulphate with HYV of tomato for yield maximization.

Tomato cultivation comprises a major area in Gorakhpur district. During the field survey the most recognizable symptom of Iron deficiency in tomato is characterized by an intense yellowing at the base of young leaves, with the midrib and leaf veins remaining green. At later stages, the chlorosis extends to the whole leaf and leaves gradually take bleached aspects. Iron deficiency can be a serious problem in Gorakhpur district because the floody area found in the district. In soil the iron has a low mobility so the

deficiency system appears first in lower leaves. The application of foliar fertilizer containing iron can still rescue the leaves and the plants. The re-greening of the veins after the application of iron is Intense chlorosis at the base of young leaves, with the leaf veins remaining green. The most common and inexpensive strategy is to control the iron deficiency by use of FAS as foliar spray. MGKVK, Gorakhpur took up on-farm trial on nutrient management in Tomato with spray of FAS (Ferrous Ammonium Sulphate) @ 200ppm at 30, 45 & 75 DAT to maintain the crop health. The third spray of Ferrous Ammonium Sulphat e awaited. The yield/plant, yield(q/ha) data, farmers' reaction and other parameters will be recorded in use of FAS (Ferrous Ammonium Sulphate) as well as farmers' practice.

Table: Effect of Tomato HYV (Kashi Aman) + spray of FAS (Ferrous Ammonium Sulphate) @200ppm

Technology Option	No.of trials	Yield (qt./ha)	Increase in yield (%)	Gross cost	Gross return	Net Return (Rs./ha)	B:C Ratio
T1:- Farmers practice (Without spray)					•. 7		
				Result	awaited		
T2:- HYV (Kashi Aman) + spray of FAS	4						
(Ferrous Ammonium Sulphate) @ 200ppm							
at 30, 45 & 75 DAT							

NUTRIENT MANAGEMENT OFT-14 [2019-201-Results Awaited

Particulars	Contents
Title	Assessment of bio-fertilizer on productivity of chick pea
Problem diagnosed	Low yield in chickpea due to use of imbalance dose of fertilizer
Micro farming situation	Sandy loam, imbalance use of fertilizer, low productivity, irrigated
Details of technology	T1-Farmers practice (imbalanced fertilizer and no use of bio-fertilizer)
identified for solution	T2-15:40:20:20::N:P:K:S kg/ha (Farmers share) + PSB and Rhizobium @ 500 mL/ha
No. of farmers	03
Replications	03
Area	6000 sqm
Critical inputs	Bio Fertilizer
Production system	Rice-wheat
Source of technology	AICRP on major nutrients
Total Cost	Rs. 4000/- (Approx.)
Observation to be	Plant height, Nodule number, nodule weight, Yield (q/ha.), % increase in yield, BC
recorded	Ratio
Reaction of the farmers	Acceptability of technology among farmers
Reaction of the farmers	Compatibility in the existing cropping system

OFT-15 (Agri. Ext.)-Results Awaited

Particulars	Contents				
Title	Testing of Audio-visual aids training module in Gorakhpur district				
Problem diagnosed	Lack of knowledge and interest				
Details of technology identified for solution	T ₁ - Training without using visual aids (Lecture mode only) T ₂ -Training using audio-visual aids				
No. of farmers	20				
Replications	5				
Critical inputs	Training				
Production system and thematic area	Knowledge and adoption of technological know-how				
Source of technology	GBPUA&T, Pantnagar				
Total Cost	Rs 8000.00/-				
Observation to be recorded	 Knowledge Adoption Attitude 				
Reaction of the farmers	Acceptability & compatibility				

OFT-16 (Hort)-Results Awaited

Particulars	Contents
Title	Assessment of plant growth hormone in chilli.
Problem diagnosed	Low yield of chili due to flower drop.
Micro farming	Sandy loam, low water holding capacity, imbalance use of fertilizer, tube well, low
situation	productivity
Details of technology identified for solution	T1:- Farmers practice T2:- HYV (Kashi Anmol/ Azad Mirch-1) with Napthlene Acetic Acid (NAA) @ 10 ppm during flowering, 2 nd spray 20-30 days
No. of farmers	05
Replications	05
Area	5000 sqm
Critical inputs	Seed & Napthlene Acetic Acid (NAA) / Chlormequat Chloride (Lehoshin)
Production system	Cucurbits – Chili
Source of technology	IIVR, Varanasi
Total Cost	Rs. 5000.00 (Approx)
Observation to be recorded	Date of 1 st Flowering, Date of 50% Flowering, Yield (q/ha), No. of fruits/plant, % increase in yield, BCR
Reaction of the farmers	Acceptability of technology to farmers

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2018 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise			Details of popularization methods suggested to the Extension system		Horizontal spread of technology			
					No. of villages	No. of farmers	Area in ha		
1.	Mustard (CFLD) 2018-19			Demonstration, Trainings, Field Day, Literature Distributed , Advisory Services	10	100	40		
2.	Mustard (CFLD) 2019-20	ICM	Seed (RG-749) + imidacloroprid 17.5 + sulphur 80 % WDG@2gm/lt of water	Demonstration, Trainings, Field Day, Literature Distributed , Advisory Services	8	50	20		
3.	Pigeon pea (C-FLD) 2018-19	ICM	Seed-6 kg/acre+seed treatment Trichoderma 5 gram/kg+Imazathyper 10%SL @1 lt /ha+Emamectin Benzoate 5% SG @220g/ha for pod boarer management	Demonstration, Trainings, Field Day, Literature Distributed, Advisory Services	10	10 125 50			
4.	Pigeon pea (C-FLD) 2019-20	geon pea ICM Seed-6 kg/acre+seed FLD) treatment Trichoderma 5		Demonstration, Trainings, Field Day, Literature Distributed, Advisory Services	8	37	15		
5.	Chickpea 2018-19	INM	Boron application	Demonstration, Trainings, Field Day, Literature Distributed, Advisory Services	3	3 10 2.5			
6.	Chickpea 2018-19	ICM	Seed + imamactin benzoate 5% SG	Demonstration, Trainings, Field Day, Literature Distributed, Advisory Services	5	5 25 10			
7.	Chickpea 2019-20	INM	Boron @ 10kg/ha	Demonstration, Trainings, Field Day, Literature Distributed, Advisory Services	3	10	2.5		
8.	Chickpea 2019-20 C-FLD	ICM	Seed var. RVG 202+ Pesticide for pod borer management	Demonstration, Trainings, Field Day, Literature Distributed, Advisory Services	6	25	10		
9.	Paddy 2019-20	INM	Seed + Balanced dose of fertilizer with use of ZnSO4 33%@2% foliar spray	Demonstration, Trainings, Field Day, Advisory Services, News Paper Coverage	4	20	2		
10.	Paddy 2019-20	Varietal Evaluation	Seed Sambha Sab 1	Demonstration, Trainings, Field	14	160	20		

							52
				Day, Advisory Services, News			
				Paper Coverage			
11.	Wheat Timely sown 2018-19	INM	Seed+120:60:40 kg NPK+ VAM @10kg+500Kg FYM/ha	Demonstration, Trainings, Field Day, Advisory Services	2	10	1
12.	Wheat Timely sown 2019-20	INM	Seed+120:60:40 kg NPK+ VAM @10kg+500Kg FYM/ha	Demonstration, Trainings, Field Day, Advisory Services	4	10	1
13.	Bitter gourd 2019-20	INM	HYV VRBTG-10 with machan system	Demonstration, Trainings, Advisory Services	6	10	0.50
14.	Cauliflower 2019-20	ICM	Intercropping of cauliflower (var. kashi gobhi 25) with banana crop (var. G-9)	Demonstration, Trainings, Advisory Services	7	10	0.50
15.	Sorghum 2019-20	VE	Seed Green Gold SSG	Demonstration, Trainings, Advisory Services	15	37	4
16.	Berseem 2018-19	VE	Seed (BB2)	Demonstration, Trainings, Advisory Services	7	30	4
17.	Berseem 2019-20	VE	Seed (Green Gold)	Demonstration, Trainings, Advisory Services	11	32	4
18.	Vermi Compost	Eisenia fetida	Worms (Eisenia fetida)	Demonstration, Trainings, Advisory Services	3	5	-

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

b. Details of FLDs implemented during **2019** (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

SI. No.	Crop	The matic area	Tech nolog y Dem onstr ated	Season and year	Area (ha) Proposed Actual		No. of farmers/ demonstration SC/ST Others Total			Reasons for shortfall in achievem ent
1.	Mustar d (CFLD) 2018- 19	ICM	Seed (RG- 749) + imidacl oroprid 17.5 + sulphu r 80 % WDG @2gm /lt of water	Rabi 2018 -19	40	40	50/51	100	100	
2.	Mustar d (CFLD) 2019- 20	ICM	Seed (RG- 749) + imidacl oroprid 17.5 + sulphu r 80 % WDG @2gm /lt of water	Rabi 2019 -20	20	20		50	50	
3.	Pigeon pea (C-	ICM	Seed-6 kg/acre +seed	Khari f	50	50		125	125	

	FLD) 2018- 19		treatme nt Tricho derma 5 gram/k g+Imaz athyper 10%SL @1 lt /ha+E mamec tin Benzoa te 5% SG @220g /ha for pod boarer manage ment	2019 -19					
4.	Pigeon pea (C- FLD) 2019- 20	ICM	Seed-6 kg/acre +seed treatme nt Tricho derma 5 gram/k g+Imaz athyper 10% SL @ 1 lt /ha+E mamec tin Benzoa te 5% SG @ 220g /ha for pod boarer manage ment	Khari f 2019 -20	15	15	37	37	
5.	Chickp ea 2018- 19	INM	Boron applica tion	Rabi 2018 -19	2.5	2.5	10	10	
6.	Chickp ea 2018- 19	ICM	Seed + imama ctin benzoat e 5% SG	Rabi 2018 -19	10	10	25	25	
7.	Chickp ea 2019- 20	INM	Boron @ 10kg/h a	Rabi 2019 -20	2.5	2.5	10	10	
8.	Chickp ea 2019- 20 C-FLD	ICM	Seed var. RVG 202+ Pestici de for pod borer manage ment	Rabi 2019 -20	10	10	25	25	
9.	Paddy 2019- 20	INM	Seed + Balanc ed dose of fertiliz er with	Khari f 2019 -20	2	2	20	20	

			use of ZnSO 4 33%@ 2%						
10	Paddy 2019- 20	Variet al Evalua tion	foliar spray Seed Samb ha Sab 1	Khari f 2019 -20	20	20	160	160	
11	Wheat Timel y sown 2018- 19	INM	Seed+ 120:60 :40 kg NPK+ VAM @10k g+500 Kg FYM/h a	Rabi 2018 -19	1	1	10	10	
12	Wheat Timel y sown 2019- 20	INM	Seed+ 120:60 :40 kg NPK+ VAM @10k g+500 Kg FYM/h a	Rabi 2019 -20	1	1	10	10	
13	Bitter gourd 2019- 20	INM	HYV VRBT G-10 with macha n system	Khari f 2019 -20	0.50	0.50	10	10	
14	Caulifl ower 2019- 20	ICM	Intercr opping of caulifl ower (var. kashi gobhi 25) with banan a crop (var. G-9)	Khari f 2019 -20	0.50	0.50	10	10	
15	Sorghu m 2019- 20	VE	Seed Green Gold SSG	Khari f 2019 -20	4	4	37	37	
16	Bersee m 2018- 19	VE	Seed (BB2)	Rabi 2018 -19	4	4	30	30	
17	Bersee m 2019- 20	VE	Seed (Green Gold)	Rabi 2019 -20	4	4	32	32	
18		Eiseni a fetida	Worm s (Eiseni a	-	0	0	5	5	
19			fetida)		187	187	706	706	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type		atus o soil	of	Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
		(R		Ν	Р	K	Pre			a (Z
Mustard (CFLD) 2018-19	Rab i 201 8- 19	irrigat ed	Sandy Ioam	L	L	М	Padd y	25 Oct – 8 Nov 2018	12- 28 Marc h 2019		
Mustard (CFLD) 2019-20	Rab i 201 9- 20	irrigat ed	Sandy Ioam	L	L	М	Padd y	25 Oct – 10 Nov 2019	-		
Pigeon pea (C-FLD) 2018-19	Kha rif 201 9- 19	RF	Sandy Ioam	L	L	М	Whe at	25 June – 15 July 2018	8-17 April 2019		
Pigeon pea (C-FLD) 2019-20	Kha rif 201 9- 20	RF	Sandy Ioam	L	L	М	Whe at	25 June – 15 July 2019	-		
Chickpea 2018-19	Rab i 201 8- 19	RF	Sandy Ioam	L	L	М	Padd y	12- 20 Nov 2018	8-15 April 2019		
Chickpea 2018-19	Rab i 201 8- 19	RF	Sandy Ioam	L	L	М	Padd y	12- 20 Nov 2018	8-15 April 2019		
Chickpea 2019-20	Rab i 201 9- 20	RF	Sandy Ioam	L	L	М	Padd y	12- 20 Nov 2019	-		
Chickpea 2019-20 C-FLD	Rab i 201 9- 20	RF	Sandy Ioam	L	L	М	Padd y	12- 20 Nov 2019	-		
Paddy 2019-20	Kha rif 201 9- 20	Irriga tor	Sandy Ioam	L	L	М	Whe at	2-15 July 2019	15- 25 Nov 2019		
Paddy 2019-20	Kha rif 201 9- 20	Irriga tor	Sandy Ioam	L	L	М	Whe at	2-15 July 2019	15- 25 Nov 2019		
Wheat Timely sown 2018-19	Rab i 201 8- 19	irrigat ed	Sandy Ioam	L	L	М	Padd y	20- 30 Nov 2018	8-15 Marc h 2019		

Wheat Timely sown 2019-20	Rab i 201 9- 20	irrigat ed	Sandy Ioam	L	L	М	Padd y	20- 30 Nov 2019	-	
Bitter gourd 2019-20	Kha rif 201 9- 20	irrigat ed	Sandy Ioam	L	L	М	Whe at	25 June -10 July 2019	25- 30 Nov 2019	
Cauliflo wer 2019-20	Kha rif 201 9- 20	irrigat ed	Sandy Ioam	L	L	М	Whe at	25 June – 5 July 2019	20- 25 Oct 2019	
Sorghu m 2019-20	Kha rif 201 9- 20	irrigat ed	Sandy Ioam	L	L	М	Whe at	25 June -10 July 2019	20- 26 Oct 2019	
Berseem 2018-19	Rab i 201 8- 19	irrigat ed	Sandy Ioam	L	L	М	Padd y	25- 30 Nov 2018	10- 20 April 2019	
Berseem 2019-20	Rab i 201 9- 20	irrigat ed	Sandy Ioam	L	L	М	Padd y	25- 30 Nov 2019	-	
Vermi Compo st	-	-	Sandy Ioam	-	-	-	-			

Technical Feedback on the demonstrated technologies

S. No	Feed Back									
Mustard										
1	It is suitable for timely sowing, 2.5-3.5 kg/ha seed is sufficient									
2	It is suitable for irrigated conditions									
3	It is of long maturity (140-150 days)									
Pigeon p	ea									
1	Variety NA-2 has been found better than non-identified local variety									
2	Variety NA-2 with fertilizer response appreciated by the farmers									
Chickpea										
1	Chick Pea Variety GNG 1581 is resistant to water logging condition and tolerant against wilt, Ascochyta									
	blight, stunt and root rot, medium height and semi erect plant									
2	Use of carbendazim as a seed treatment resulted to control collar rot/wilt									
3	Application of balanced dose of fertilizer found effective in higher production									
4	There is a need to develop a method to know the effectiveness and activeness of microbes in bio-agents									
	at local level									
5	No use of balanced dose of fertilizer is a major constraint for production of chick pea									
6	Lack of awareness about IPM strategies									
Paddy										
1	Use of balanced dose of fertilizer (120:60:40kg/ha N:P:K::+ZnSO ₄ 25kg/ha) found an important role in									
	higher sustainable production									
2	Application of ZnSO ₄ is useful to control of Khaira disease and also it enhances the photosynthetic rate									
	of plant resultantly enhance the production of paddy									
Berseem										

1	Variety BB-2 is highly productive and multi-cut variety
2	Dark green leaves and tolerant to acidic condition
3	This variety flowers in 150-160 days and matures in 180-190 days.
Bitterguard	Bitter guard var. VRBTG-10 is HYV, Length of Fruit av25-30cm, av. Yield 350Q/ha
Sorghum	
Cauliflower	
1.	HYV var. kashi gobhi – 25 courd weight 800- 1000 gm white in color compact

Note:- Yield affected due to attack of blue bulls at different growth stages of crop

Farmers' reactions on specific technologies

S. No	Feed Back
Mustard	
1.	Farmers were happy with HYV RH 749
2.	RH 749 may be sown with in 15 th October that reduces the aphid infestation and resultantly increase the
	production
3.	Farmers appreciated the demonstration
Pigeon P	38
1.	NA-2 seed is not available in market but this variety is better than others
2.	No of pods are higher in comparison to other varieties
3.	Yield received less due to attack of blue bulls at different growth stages of crop
Chickpea	
1	Variety GNG 1581 appreciated by farmers because seed size is slightly bold
2	Farmers accepted fertilizer dose as recommended by scientists
3	Attack of Neelgai during the maturity of crops is a constraint for chick pea production
Paddy	
1.	Farmers are not aware about improved production technology of paddy
2.	Recommended dose of fertilizer along with Zinc Sulphate is appreciated by the farmers
3.	Imbalanced use of fertilizer is a major constraint for production of paddy
Berseem	
1	Farmers were happy to grow this variety, they received higher quantity of forage
2	Farmers' appreciated the demonstration due to more cutting of this variety (5-6 cuts)
Bitter guard	Farmers appreciated Bitter guard var. VRBTG-10 due to their fruit size; less prone to insect/pest.,
	Yield received less due to attack of blue bulls at different growth stages of crop
Sorghum	
Cauliflow	er
1.	HYV var. kashi gobhi – 25 courd weight 800- 1000 gm white in color compact less prone to diseases and
	suitable for intercropping with banana crop.

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	3	12.3.2019;1.4.2019,12.11.2019	368	
2	Farmers Training	3	15/05/2019,7/6/2019,2/11/2019	67	
3	Media coverage	20	5/6/19,-8/6/19,3/12/19,17/6/19	-	
4	Training for extension functionaries				

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

	Thematic	technology		No. of	Area		Yield	l (q/ha)		%	Econ	omics of c (Rs./	demonstra /ha)	tion	E	conomics (Rs./		
Crop	Area	demonstrated	Variety	Farmers	(ha)		Demo		Check	Increase in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High	Low	Average	Oneok		Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Groundnut																		
Sesamum	_																	
Mustard																		
เพิ่มรเล่าน	_	Seed (RG-749) +																
Mustard (CFLD) 2018-19	ICM	imidacloroprid 17.5 + sulphur 80 % WDG@2gm/lt of water	RH 749	100	40	16.2	21.5	18.72	12.62	48.83	23160	61776	38616	2.67	21405	41646	20195	1.94
Mustard (CFLD) 2019-20	ICM	Seed (RG-749) + imidacloroprid 17.5 + sulphur 80 % WDG@2gm/lt of water	рц	50	20		1				Result	awaiteo	d		•	1		
Toria																		
TUIIa																		
Linseed																		
	_																	
Sunflower																		
Soybean	_																	
coybour																		
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Frontline demonstration on pulse crops

	Thematic	technology		No. of	Area			eld (q/ha)		%	Ecor	omics of o (Rs.)	demonstra /ha)	tion	E	conomics: (Rs./			
Crop	Area	demonstrated	Variety	Farmers	(ha)		Dem	0	Check	Increase in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR	
						High	Low	Average	Check	III yield	Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)	
Pigeonpea																			
Pigeon pea (C-FLD) 2018-19	ICM	Seed-6 kg/acre+seed treatment Trichoderma 5 gram/kg+Imazathyper 10%SL @1 lt /ha+Emamectin Benzoate 5% SG @220g/ha for pod boarer management	NA 2	125	50	18.4	13.1	14.04	10.27	36.70	21255	70200	48945	3.30	19050	51350	32300	2.78	
Pigeon pea (C-FLD) 2019-20	ICM	Seed-6 kg/acre+seed treatment Trichoderma 5 gram/kg+Imazathyper 10% SL @1 lt /ha+Emamectin Benzoate 5% SG @220g/ha for pod boarer management	NA-2	37	15	15 Result awaited													
Blackgram																			
Greengram																			
Chickpea																4		ļ	
Chickpea 2018-19	INM	Boron application	GNG- 1581	10	2.5	16.50	14.50	15.41	11.51	33.88	21470.00	61620.00	40150.00	2.87	17393.00	46040.00	28647.00	2.65	
Chickpea 2018-19	ICM	Seed + imamactin benzoate 5% SG	GNG- 1581	25	10	20.6	16.8	18.16	11.5	57.91	24060.00	72640.00	48580.00	3.02	22100.00	46000.00	23900.00	2.08	
Chickpea 2019-20	INM	Boron @ 10kg/ha	GNG- 1581	10	2.5			.			Res	ult awaited			-			•	

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Chickpea 2019-20 C-FLD Fieldpea	ICM	Seed var. RVG 202+ Pesticide for pod borer management	RVG 202	25	10			Re	sult awaited			
Fieldpea												
												 -
Lentil					1							 -
						1						 -
												 -
Horsegram												 -
						 						 -

FLD on Other crops

Cotogory 8	Themati	Name of the	No. of	Are		Yie	eld (q/ha)		% Chang	Other Pa	rameters	Econom	ics of dei (Rs./ha		on	Econo	mics of c	heck (Rs	./ha)
Category & Crop	c Area	technology	Farmer s	a (ha)	Hig h	Dem Lo w	o Averag e	Chec k	e in Yield	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cereals															*****				
Paddy Paddy 2019-20	INM	Seed + Balanced dose of fertilizer with use of ZnSO4 33%@2% foliar spray	20	2	52.5	41. 5	50.63	43.1 3	17.39	97(Plant Height in cm)	83 (Plant Height in cm)	28750	91134	62384	3.16	26550	77634	51084	2.92
Paddy 2019-20	Varietal Evaluatio n	Seed Sambha Sab 1	160	20	56.5	40. 5	54.89	42.10	30.30	96(Plant Height in cm)	82 (Plant Height in cm)	28750	98802	70052	3.4 4	26550	75780	49230	2.8 5
Waterlogged Situation																			
Coarse Rice																			
Scented Rice																			

Wheat																			
					1									1	1				1
Vheat ïmely sown																			
Vheat ïmely sown 018-19	INM	Seed+120:60: 40 kg NPK+ VAM @10kg+500Kg FYM/ha	10	1	50.1	47. 1	48.78	38.5 1	26.67	No. of Tiller:- 16; PH 101 cm	No. of Tiller:- 9; PH 94cm	29954	82917. 5	52963. 5	2.77	29754	66467	36713	2.
Vheat ïmely sown 019-20	INM	FYM/na Seed+120:60: 40 kg NPK+ VAM @10kg+500Kg FYM/ha	10	1		<u></u>		<u> </u>	<u>.</u>	L	Result	Awaited	<u> </u>	<u>.</u>	<u> </u>				<u></u>
/heat Late													I						l
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ottlegourd													<u> </u>						1

Bittergourd					[ſ					T	T	[42 1
Bitter gourd 2019-20	INM	HYV VRBTG- 10 with machan system	10	0.50	365	310	337	265	27.16	fruit length:- 25-30cm: no.of ruits per plant:- 37-40	fruit length:-18- 20 cm: no.of ruits per plant:- 25-30	200000	674000	474000	3.54	19000 0	53000 0	34000 0	2.7 8
Cowpea																			
													1	1				1	1
Spongegour d													-						
Petha													-						
Tomato																			
Frenchbean																			
Capsicum																			
Chilli																			
Brinjal													-						
Vegetable																			
pea																			
Softgourd																			
Okra																			
Colocasia (Arvi)																			
Broccoli																			
Cucumber																			

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Onion										<u> </u>									1
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Coriender																			
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Lettuce																			
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Cabbage								<u> </u>					ļ					_	_
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Cauliflower							l 			<u> </u>			1						1
Cauliflower 2019-20	ICM	Intercropping of cauliflower (var. kashi gobhi 25) with banana crop (var. G-9)	10	0.50	90	87.5	88.75	-	-	Curd wt. 2.5-3 kg	-	80000 Cauliflowe r cost	248500	168500	3.10				
Elephant fruit													 						
					<u> </u>	<u> </u>		<u> </u>				 	<u> </u>	<u> </u>				<u> </u>	<u> </u>
Flower crops													l I					1	1
Marigold																			-
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Bela																			
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Tuberose													+						
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Gladiolus																		-	
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Fruit crops						-				1			 						.
Mango													• •••••••••••••••••••••••••••••••••••						1
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Strawberry																			
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Guava																			
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Banana							I			I			[I

Panava																			-
Papaya																			
Muskmelon																			
																			-
Watermelon																			
Snices &																			
Spices & condiments																			
Ginger																			
Garlic													<u> </u>						
								 	 	l I			 	 					
Turmeric													ļ	 					
																			1
Commercial Crops																			
Sugarcane																			
Potato																			1
Medicinal &																			
aromatic plants																			
Mentholment																			
Kalmegh																			
Ashwagandh				<u> </u>									<u> </u>						1
a																			
																			-
Fodder Crops																			
Sorghum 2019-20	VE	Seed Green Gold SSG	37	4	825	790	807.5 0	605	33.47	Multicut var. 4 cut	3 cutting	6130	40375	34245	6.5 8	6450	30250	23800	4.0 8

																			<u>т</u> ,
Cowpea (F)													[_					
Maize (F)					 				-				I I I	1					
Lucern																			
Berseem																			
Berseem 2018-19	VE	Seed (BB2)	30	4	945	770	848.5	562	50.98	Av. Green fodder 1.7 Kg per SQM/cuttin g	Av. Green fodder 1.12 Kg per SQM/cuttin g	40800	15273 0	11193 0	3.7 4	35950	10116 0	65210	2.8 1
Berseem 2019-20	VE	Seed (Green Gold)	32	4							Result	t Awaited					-		
Oat (F)																			
			1	1				·	-	1				1				1	1

FLD on Livestock

Category	Thematic area	Name of the technology	Farmer	No.of Units (Animal/	Major pa	irameters	% change	Other pa	arameter	Econom	ics of dem	onstratio	n (Rs.)	E	conomics (Rs	(
		demonstrated		Poultry/ Birds, etc)	Demo	Check	in major parameter	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)		Gross Return	BCR (R/C)
Cattle													<u> </u>			
Buffalo																
		-														
Buffalo Calf																
Dairy																

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Developer		 			 	 	 				
Poultry											
Sheep & Goat	 1	 				 					
Vaccination											

FLD on Fisheries

Category	Thematic	Name of the technology	No. of	No.of	Major pa	arameters	% change in major	Other pa	rameter	Econo	mics of der	nonstratio	on (Rs.)	I		s of check s.)	
Calegory	area	demonstrated	Farmer	units	Demons ration	Check	parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps																	
Composite fish culture																	
Feed Manageme nt																	

* 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	No. of Farmer	No.of units	Major par		in major	Other p	arameter	Econom	ics of dem Rs./	unit				s of check Rs./unit	
	demonstrated			Demo	Check	parameter	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oyster Mushroom																
Button Mushroom					_											
Button Mushroom				-												
Apiculture																
					_											
Maize Sheller					_											
Value Addition																
Vermi Compost	Worms (Eisenia fetida)	05	05					<u> </u>	R	esult awaite	ed	<u> </u>				
					_											

FLD on Women Empowerment

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

FLD on Farm Implements and Machinery

	Name of the implement	Сгор	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed obs (output/m		% change in major	Laboi	reduction	ı (man day	s)	(Rs	Cost red /ha or Rs	uction ./Unit etc.)
							Demo	Check	parameter	Land preparation	Sowing	Weedin g	Total	Land preparati on	Labour	Irrigati on	Total
Γ																	

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology	No. of Farmer	No. of Units	Yield	l (Kg)	% change	Other p	parameters	Eco	nomics of c (Rs./		ion	E	Economics (Rs./ł		
		demonstrated			Demons ration	Check	in yield	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)

FLD on Demonstration details on crop hybrids (Details of Hybrid FLDs implemented during 2019)

	()	Line and	No. of			Yield (q/	ha)		0/ 1	Econo	mics of dem	onstration (Rs.	./ha)
Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)		Demo			% Increase in yield	Gross	Gross		BCR
	demonstrated	Variety	I anners	(IIA)	High	Low	Average	Check	in yield	Cost	Return	Net Return	(R/C)
Oilseed crop													
Pulse crop													
Corool oron													
Cereal crop													
Vegetable crop													

	I	I	 				
Fruit crop							
Other (specify)							

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

III. Training Programme (Jan 2019 to December 2019)

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of				I	Participant	ts			
	courses		Others			SC/ST			Grand Tot	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	20	0	20	0	0	0	20	0	20
Resource Conservation Technologies	2	49	1	50	1	0	1	50	1	51
Cropping Systems										
Crop Diversification	1	22	1	23	0	0	0	22	1	23
Integrated Farming										
Micro Irrigation/irrigation		-			-					
Seed production										
Nursery management						-	-			
Integrated Crop Management	2	62	1	63	0	0	0	62	1	63
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)		150	2	150	1	0	1	154	2	167
Total	6	153	3	156	1	0	1	154	3	157
II Horticulture										
a) Vegetable Crops Production of low value and high valume crops	3	50	4	56	6	3	9	58	7	65
Off-season vegetables	3	52	4	30	0	5	9	38	/	65
Nursery raising Exotic vegetables										
Exotic vegetables										
Grading and standardization	-									
Protective cultivation	1	17	2	19	1	0	1	18	2	20
Others (pl specify)	1	17		19	1	0	1	10	2	20
Total (a)	4	69	6	75	7	3	10	76	9	85
b) Fruits	4	09	0	15	/	5	10	70	3	65
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards		1			1					
Export potential fruits		[[
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants		Ŭ	0	Ŭ	Ŭ	0	Ŭ	Ŭ	0	0
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)	0	0	0	0	0	0	0	0	0	0
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)		İ	1	1	İ	1	1		1	1
Total (d)	0	0	0	0	0	0	0	0	0	0
e) Tuber crops		1			1					
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)	0	0	0	0	0	0	0	0	0	0
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)	0	0	0	0	0	0	0	0	0	0

g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology Post harvest technology and value addition										
Others (pl specify)										
Total (g)	0	0	0	0	0	0	0	0	0	0
GT (a-g)	4	69	6	75	7	3	10	76	9	85
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management				-				-		
Integrated Nutrient Management	2	39	0	39	2	0	2	39	2	41
Production and use of organic inputs										
Management of Problematic soils Micro nutrient deficiency in crops										
Nutrient Use Efficiency	1	32	0	32	1	0	1	33	0	33
Balance use of fertilizers	1	52	0	52	1	0	1	55	0	
Soil and Water Testing	1	22	0	22	1	0	1	23	0	23
Others (pl specify)						-				
Total	4	93	0	93	4	0	4	97	0	97
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management Animal Nutrition Management	1	18	2	20	1	0	1	19	2	21
Disease Management	1	10	2	20	1	U	1	19	2	21
Feed & fodder technology	1	26	0	26	0	0	0	26	0	26
Production of quality animal products	1	20	0	20	Ū	Ŭ	0	20	0	
Others (pl specify)										
Total	2	44	2	46	1	0	1	45	2	47
V Home Science/Women empowerment										
Household food security by kitchen gardening and										
nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient										
efficiency diet										
Minimization of nutrient loss in processing Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total										ļ
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and										
implements Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	2	42	0	42	2	0	2	44	0	44
Integrated Disease Management	1	24	1	25	1	0	1	25	1	26
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	3	66	1	67	3	0	3	69	1	7

										52
VIII Fisheries										52
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater										
prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs	1	14	07	21	0	03	03	14	10	24
Mobilization of social capital	1	12	06	18	01	02	03	13	08	21
Entrepreneurial development of farmers/youths										
WTO and IPR issues	2	40	2	42	0	0	0	40	2	42
Others (pl specify)										
Total	4	66	15	81	1	5	6	67	20	87
XI Agro-forestry										
Production technologies	↓									
Nursery management										
Integrated Farming Systems	↓									
Others (pl specify)										
Total										
GRAND TOTAL	23	491	27	518	17	8	25	508	35	543

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of										
	courses		Others			SC/ST		(Frand Tota	al	
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
I Crop Production											
Weed Management											
Resource Conservation Technologies											
Cropping Systems											
Crop Diversification	2	39	1	40	0	0	0	39	1	40	
Integrated Farming											
Micro Irrigation/irrigation											
Seed production											
Nursery management											
Integrated Crop Management	1	14	6	20	0	0	0	14	6	20	
Soil & water conservatioin											
Integrated nutrient management											
Production of organic inputs											

										53
Others (pl specify)										
Total	3	53	7	60	0	0	0	53	7	60
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	1	12	0	12	2	8	10	14	8	22
Off-season vegetables	1	26	1	27	0	0	0	26	1	27
Nursery raising	2	33	22	55	1	0	1	34	22	56
Exotic vegetables										
Export potential vegetables										
Grading and standardization Protective cultivation										
Others (pl specify)										
Total (a)	4	71	23	94	3	8	11	74	31	105
b) Fruits	+	/1	23	74	5	0	11	/4	51	105
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	27	2	29	4	0	4	31	2	33
Management of young plants/orchards	1	27	2	27		0	-	51	2	55
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	1	27	2	29	4	0	4	31	2	33
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (Scientific Cultivation)	1	9	13	22	3	9	12	12	22	34
Total (c)	1	9	13	22	3	9	12	12	22	34
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify) Total (d)	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
e) Tuber crops										
Production and Management technology Processing and value addition										
Others (pl specify)										
Total (e)	0	0	0	0	0	0	0	0	0	0
f) Spices	0	0	0	0	0	0	0	0	0	0
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)	0	0	0	0	0	0	0	0	0	0
GT (a-g)	6	107	38	145	10	17	27	117	55	172
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management		6-								0
Integrated Nutrient Management	4	89	0	89	6	0	6	95	0	95
Production and use of organic inputs	3	59	0	59	1	0	1	60	0	60
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers		0.5		0.5			-			<u>^</u>
Soil and Water Testing	1	26	0	26	0	0	0	26	0	26
Others (pl specify)	4	07		07		0	154	•	154	-
Total	4	97	0	97		8	174	0	174	7
IV Livestock Production and Management Dairy Management	3	34	26	60	9	0	9	43	26	69
Poultry Management	3	34	20	00	9	U	9	43	20	09
i ounty management	1									

										54
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	17	4	21	1	4	5	18	8	26
Disease Management	2	15	20	35	6	1	7	21	21	42
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)	(((50	11(1(=	- 21	01	==	127
Total	6	66	50	116	16	5	21	82	55	137
V Home Science/Women empowerment Household food security by kitchen gardening and										
nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total										
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation										
systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection	1	17	2	20	0	0	0	17	2	20
Integrated Pest Management Integrated Disease Management	1	20	3	20	0	0	0	17 20	3	20 28
Bio-control of pests and diseases	1	20	0	28	0	0	0	20	0	28
Production of bio control agents and bio										
pesticides										
Others (pl specify)				40	0	0	-			40
Total	2	37	11	48	0	0	0	37	11	48
VIII Fisheries										
Integrated fish farming Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater										
prawn Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										ļ
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										

										55
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development	1	26	0	26	1	0	1	27	0	27
Group dynamics										
Formation and Management of SHGs	1	23	0	23	0	0	0	23	0	23
Mobilization of social capital	2	50	2	52	6	0	6	56	2	58
Entrepreneurial development of farmers/youths										
WTO and IPR issues	2	35	4	39	7	2	9	42	6	48
Others (pl specify)										
Total	6	134	6	140	14	2	16	148	8	156
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	31	571	112	683	47	24	71	618	136	754

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

Thematic area	No. of									
	courses		Others			SC/ST		(Frand Tota	ıl
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	20	0	20	0	0	0	20	0	20
Resource Conservation Technologies	2	49	1	50	1	0	1	50	1	51
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	3	61	2	63	0	0	0	61	2	63
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Micro Irrigation/irrigation	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	3	76	7	83	0	0	0	76	7	83
Soil & water conservatioin	0	0	0	0	0	0	0	0	0	0
Integrated nutrient management	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	9	206	10	216	1	0	1	207	10	217
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	4	64	4	68	8	11	19	72	15	87
Off-season vegetables	1	26	1	27	0	0	0	26	1	27
Nursery raising	2	33	22	55	1	0	1	34	22	56
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	17	2	19	1	0	1	18	2	20
Others (pl specify)										
Total (a)	8	140	29	169	10	11	21	150	40	190
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	27	2	29	4	0	4	31	2	33
Management of young plants/orchards										
Rejuvenation of old orchards							_			
Export potential fruits										
Micro irrigation systems of orchards										

										56
Plant propagation techniques			ĺ					I		50
Others (pl specify)										
Total (b)	1	27	2	29	4	0	4	31	2	33
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (Scientific Cultivation)	1	9	13	22	3	9	12	12	22	34
Total (c)	1	9	13	22	3	9	12	12	22	34
d) Plantation crops	ļ									
Production and Management technology	<u> </u>									
Processing and value addition	$ \longrightarrow $									
Others (pl specify)										
Total (d)										
e) Tuber crops Production and Management technology										
Processing and value addition	┼───┤									
Others (pl specify)	+									
Total (e)										
f) Spices	+									
Production and Management technology	╂───┤									
Processing and value addition	+ +									
Others (pl specify)	+ +									
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)	10	176	44	220	17	20	37	193	64	257
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	6	128	0	128	8	0	8	136	0	136
Production and use of organic inputs	3	59	0	59	1	0	1	60	0	60
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency	1	32	0	32	1	0	1	33	0	33
Balance use of fertilizers										
Soil and Water Testing	2	48	0	48	1	0	1	49	0	49
Others (pl specify)						0				
Total	12	267	0	267	11	0	11	278	0	278
IV Livestock Production and Management		- 24	26	(0	0	0	0	12	26	(0)
Dairy Management Poultry Management	3	34 0	26 0	60	9 0	0	9 0	43	26 0	69
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	2	35	6	41	2	4	6	37	10	47
Disease Management	2	15	20	35	6	1	7	21	21	47
Feed & fodder technology	1	26	20	26	0	0	0	26	0	26
Production of quality animal products	0	20	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	8	110	52	162	17	5	22	127	57	184
V Home Science/Women empowerment										
Household food security by kitchen gardening										
and nutrition gardening										
Design and development of low/minimum cost										
diet										
Designing and development for high nutrient	Ι Τ	T	T	T	T				_I T	. –
efficiency diet									<u> </u>	
Minimization of nutrient loss in processing	+									
									II	
Processing and cooking										
Processing and cooking Gender mainstreaming through SHGs										
Processing and cooking Gender mainstreaming through SHGs Storage loss minimization techniques										
Processing and cooking Gender mainstreaming through SHGs										

Lacesion specific dradgety reduction Image of the specify <											57
technologies Image of the second constraints </td <td>Location specific drudgery reduction</td> <td> </td> <td></td> <td>1 1</td> <td></td> <td> </td> <td> </td> <td></td> <td></td> <td></td> <td>57</td>	Location specific drudgery reduction			1 1							57
Rural Carls Image of the section of the sectin of the section of the sectin of the section of the sec											
Others (of specify) Image: Control of specify) <thimage: control="" of="" specify)<="" th=""> Image:</thimage:>											
Total Image: Constraint of the second of the s	Women and child care										
VI Agrit. Engineering Image of the interference Image of the intermac	Others (pl specify)										
Farm Machinary and its maintenanceImplantion of main maintenance of implanton systemImplanton of main maintenance of implanton systemImplanton of main maintenance of implanton systemImplanton of main maintenance of implanton systemImplanton of main maintenance of implanton systemImplanton of main maintenance of implanton systemImplanton of main main maintenance of implanton systemImplanton of main main main main main main main main											
Installation and maintenance of micro infigation systems Image of the systems Image of th											
systems Image <thimage< th=""> Image Image <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<></thimage<>											
Use of Plantics in farming practices Image: Control of Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and implements Image: Control Sam Machinery and Sam Machinery Machi	-										
Production of small tools and implements Image and mainterance of farm machinery and implements Image and main terms of the state											
Repair and multiterance of farm machinery and implements Implements	Use of Plastics in farming practices										
implements Impleme	Production of small tools and implements										
Small scale processing and value addition Image of the state of the s											
Post Harvest TechnologyImage and the set of the set											
Others (p) specify Image of the second											
Total Image and the second secon											
YII Print Protection Imagement 3 59 3 62 2 0 1 45 9 53 1 0 11 45 9 54 Bio-control of pests and like acces - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Integrated Disease Management 2 44 9 53 1 0 1 45 9 54 Bio-control opersts and discesses </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
Integrated Disease Management 2 44 9 53 1 0 1 45 9 54 Bio-control opersts and discesses </td <td>Integrated Pest Management</td> <td>3</td> <td>59</td> <td>3</td> <td>62</td> <td>2</td> <td>0</td> <td>2</td> <td>61</td> <td>3</td> <td>64</td>	Integrated Pest Management	3	59	3	62	2	0	2	61	3	64
Production of bic control agents and bio pesticidesImage: Control agents and bio pesticidesImage: Control agents and bio pesticidesImage: Control agents and bio pesticidesImage: Control agents and bio pesticidesImage: Control agents and bio pesticidesImage: Control agents and bio pesticidesImage: Control agents and bio pesticidesImage: Control agents and bio pesticidesImage: Control agents and bio 		2	44	9	53	1	0	1	45	9	54
pesticides box box box box box Total 5 103 12 115 3 0 3 106 12 118 Integrated fish farming 1	Bio-control of pests and diseases										
Others (p) specify) Image of the second	Production of bio control agents and bio										
Total 5 103 12 115 3 0 3 106 12 118 Integrated fish farming Image and natchery management Image and natchery management Image and natchery management Image and natchery management Image and natchery management Image and natchery management Image and natchery management Image and natchery management Image and natchery management Image and natchery management Image and natchery management Image and natchery management Image and natchery											
VIII risheries Image of the state of the st											
Integrated fish farmingImagement		5	103	12	115	3	0	3	106	12	118
$\begin{array}{c c c c c c c c c c c c c c c c c c c $											
Carp fry and fingeringImage: state in the sta											
Composite fish cultureImage and the culture of freshwater prawnImage and the culture of freshwater prawnImage and the culture of ornamental fishesImage and the culture of ornamental fishesImage and the culture of ornamental fishesImage and the culture of ornamental fishesImage and the culture of ornamental fishesImage and the culture of ornamental fishesImage and the culture of ornamental fishesImage and the culture of ornamental fishesImage and the culture of fish and prawnImage and the culture of fish and prawnImage and the culture of fish and prawnImage and the culture of fish and prawnImage and the culture of fish and prawnImage and the culture of fish and prawnImage and the culture of fish and prawnImage and the culture of the culture of fish and prawnImage and the culture of th											
Hatchery management and culture of freshwater prawn Image of the share production of the share production of the share production of share production Image of the share production of the share production of the share production Image of the share production of the share production of the share production of the share production Image of the share production of the share production of the share production of the share production Image of the share production of the share production of the share production of the share production Image of the share production of the share production of the share production of the share production of the share production Image of the share production of the share production of the share production of the share production Image of the share production											
prawnImage: state of the state o											
Breeding and culture of ornamental fishes Image: state of the and prawn of the and prawn state of the and prawn of the a											
Portable plastic carp hatcheryImage of the stand prawnImage of th											
Pen culture of fish and prawnImage of the stand prawnImage of the											
Shrimp farmingImage: Shrimp farming<											
Edible oyster farmingImage: state of the stat											
Pearl cultureImage: state of the											
Others (pl specify)Image: specify of the second	Pearl culture										
TotalImage: constraint of the second sec	Fish processing and value addition										
IX Production of Inputs at siteImage: sit	Others (pl specify)										
Seed ProductionImage: seed Production	Total										
Planting material productionImage: sproductionImage: td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
Bio-agents productionImage: second secon											
Bio-pesticides productionImage: sector of the s											
Bio-fertilizer productionImage: sector of sector of sector of sector of sector of sector of sector sect											
Vermi-compost productionImage: second se											
Organic manures productionImage: space of the system											
Production of fry and fingerlingsImage: state of the state											
Production of Bee-colonies and wax sheetsImage: colonies and wax sheets											
Small tools and implementsImage: constraint of the stock feed and fodderImage: constraint feed and fodderImage: constraint feed and fodderImage: constraint feed and fodderImage: constraint feed and fodderImage: constraint feed and feed and fodderImage: constraint feed and feed an											
Production of livestock feed and fodderImage: Constraint of the stock feed and fodderImage: Constraint feed and fodderImage: Constraint feed and fodderImage: Constraint feed and fodderImage: Constraint feed and fodderImage: Constraint feed and feed											
Production of Fish feedImage: Sector of Fish feedIma											
Mushroom ProductionImage: Second											
ApicultureImage: Constraint of the section of the sectio											
Others (pl specify)Image: constraint of the spe											
TotalImage: constraint of specifyImage: constraint											
X Capacity Building and Group DynamicsImage: Constraint of the second secon											
Leadership development 1 26 0 26 1 0 1 27 0 27 Group dynamics											
Group dynamicsImage: constraint of SHGsI		1	26	0	26	1	0	1	27	0	27
Formation and Management of SHGs 2 37 7 44 0 3 3 37 10 47 Mobilization of social capital 3 62 08 70 07 2 9 69 10 79 Entrepreneurial development of farmers/youths			-		ž						
Mobilization of social capital 3 62 08 70 07 2 9 69 10 79 Entrepreneurial development of farmers/youths 79 79		2	37	7	44	0		3	37	10	47
WTO and IPR issues 4 75 6 81 7 2 9 82 8 90 Others (pl specify) 9 82 8 90	Mobilization of social capital		62	08	70	07	2	9	69	10	79
Others (pl specify)											
		4	75	6	81	7	2	9	82	8	90
Total 10 200 21 221 15 7 22 215 28 243											
	Total	10	200	21	221	15	7	22	215	28	243

XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	54	1062	139	1201	64	32	96	1126	171	1297

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

					No. of	Participan	its			
Area of training	No. of		General			SC/ST		(Grand Tota	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of	1	5	0	5	1	0	1	6	0	6
Horticulture crops										
Training and pruning of										
orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production	1	14	1	15	0	0	0	14	1	15
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production	1	15	1	16	0	0	0	15	1	16
Bee-keeping										
Sericulture										
Repair and maintenance of farm										
machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal										
products										
Dairying	1	13	0	13	2	0	2	13	2	15
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture	1 1									
Freshwater prawn culture	1 1									
Shrimp farming	1 1									
Pearl culture	1 1									
Cold water fisheries										
Fish harvest and processing										
technology										
Fry and fingerling rearing	1 1									
Any other (pl.specify)										
TOTAL	4	47	2	49	3	0	3	50	2	52

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

	Nf	General SC/ST								
Area of training	No. of Courses						1		Grand Total	
	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of										
Horticulture crops										ļ
Training and pruning of										
orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm										
machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal										
products										
Dairying										1
Sheep and goat rearing										1
Quail farming										1
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										<u> </u>
Pearl culture										<u> </u>
Cold water fisheries			1	ļ	1			1		<u> </u>
Fish harvest and processing										<u> </u>
technology										
Fry and fingerling rearing										<u> </u>
Any other (pl.specify)				<u> </u>	-					<u> </u>
TOTAL								1		
IUIAL					I					L

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

	Nf				No. of	Participants				
Area of training	No. of Courses		General			SC/ST			Grand Total	
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of	1	5	0	5	1	0	1	6	0	6
Horticulture crops										
Training and pruning of										
orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production	1	14	1	15	0	0	0	14	1	15
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production	1	15	1	16	0	0	0	15	1	16
Bee-keeping										
Sericulture										
Repair and maintenance of										
farm machinery and										

implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	1	13	0	13	2	0	2	13	2	15
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	4	47	2	49	3	0	3	50	2	52

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

	No. of	No. of Participants								
Area of training	Course		General			SC/ST		(Frand Tota	al
	s	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota
		e	e	1	e	e	1	e	e	1
Productivity enhancement in field & Horticulture crops	2	39	0	39	15	0	15	54	0	54
Integrated Pest Management										
Integrated Nutrient management	1	14	1	15	0	0	0	14	1	15
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and										
implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	1	7	0	7	6	0	6	13	0	13
Livestock feed and fodder production	2	39	0	39	15	0	15	54	0	54
Household food security										
Any other (pl.specify)	1	14	1	15	0	0	0	14	1	15
TOTAL	7	113	2	115	36	0	36	149	2	151

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

	No. of									
Area of training	Course		General			SC/ST		(Frand Tota	al
	s	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota
		e	e	1	e	e	1	e	e	1
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										

Care and maintenance of farm machinery and implements					
Gender mainstreaming through SHGs					
Formation and Management of SHGs					
Women and Child care					
Low cost and nutrient efficient diet designing					
Group Dynamics and farmers organization					
Information networking among farmers					
Capacity building for ICT application					
Management in farm animals					
Livestock feed and fodder production					
Household food security					
Any other (pl.specify)					
TOTAL					

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

	No. of	No. of Participants								
Area of training	Course		General			SC/ST		(Grand Tota	al
	s	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota
		e	e	1	e	e	1	e	e	1
Productivity enhancement in field & Horticulture crops	2	39	0	39	15	0	15	54	0	54
Integrated Pest Management										
Integrated Nutrient management	1	14	1	15	0	0	0	14	1	15
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and										
implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	1	7	0	7	6	0	6	13	0	13
Livestock feed and fodder production	2	39	0	39	15	0	15	54	0	54
Household food security										
Any other (pl.specify)	1	14	1	15	0	0	0	14	1	15
TOTAL	7	113	2	115	36	0	36	149	2	151

Table. Sponsored training programmes

	No. of Courses				No. of	f Participa	ants			
Area of training	Courses		General			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	5	825	87	912	262	15	277	1087	102	1189
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total	5	825	87	912	262	15	277	1087	102	1189
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										

Others (nl sneaify)										-
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management	1	78	24	102	2	1	3	80	25	105
Animal Nutrition Management	1	225	52	277	15	3	18	240	55	295
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total	2	303	76	379	17	4	21	320	80	400
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity Building and Group Dynamics										
Others (pl. specify)										
Total										
GRAND TOTAL	7	1128	163	1291	279	19	298	1407	182	1589

Name of sponsoring agencies involved Details of vocational training programmes carried out by KVKs for rural youth

	No. of				No. of	Participant	s			
Area of training	Courses		General			SC/ST			Grand Tota	ıl
	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition										
Others (pl. specify)			1			T			1	
Total			1			T			1	
Livestock and fisheries			1			1			1	
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-										
pesticides,										1
bio-fertilizers etc.										
Repair and maintenance of farm										
machinery										1
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery,										
dying etc.										1
Agril. para-workers, para-vet training										
Others (pl. specify)			1			ł			1	
Total						İ			1	
Agricultural Extension									1	
Capacity building and group			1			ł			1	
dynamics										
Others (pl. specify)						1			1	
Total						1			1	
Grand Total			1					1	1	

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Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	612	675	45	720
Diagnostic visits	135	240	0	240
Field Day	8	72	10	82
Group discussions	3	47	15	62
Kisan Ghosthi	50	1986	250	2236
Film Show	6	144	25	169
Self -help groups	1	14	0	14
Kisan Mela	7	7225	325	7550
Exhibition	1	550	150	700
Scientists' visit to farmers field	388	1358	00	1358
Plant/animal health camps	2	350	00	350
Farm Science Club	00	00	00	00
Ex-trainees Sammelan	00	00	00	00
Farmers' seminar/workshop	2	650	00	650
Method Demonstrations	18	272	00	272
Celebration of important days	6	176	00	176
Special day celebration	5	150	00	150
Exposure visits	7	41	00	41
Others (pl. specify)	37	526	92	655
Total	1288	14476	912	15425

IV. Extension Programmes

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	00
Extension Literature	12
News paper coverage	153
Popular articles	8
Radio Talks	4
TV Talks	53
Animal health amps (Number of animals treated)	2
Others (pl. specify)	00
Total	232

			Type of Messages								
Name of KVK	Message Type	Crop	Livest ock	Weat her	Marke- ting	Aware- ness	Other enterprise	Total			
	Text only	510	34	18	52	421	29	1064			
Mahayogi Gorakhnath Krishi Vigyan Kendra	Voice only	29	13	06	03	28	05	84			
	Voice & Text both	00	00	00	00	00	00	00			
	Total Messages	539	47	24	55	449	34	1148			
	Total farmers Benefitted	4008 61	20110 5	8464 3	40009	395207	81402	4009 05			

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

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

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

Production of see Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals						
	Wheat	HD2967, DBW 187,107		209	344000	
	Paddy	NDR2065, Sambha Sub1,BPT5204		210		
Oilseeds						
Pulses						
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others						
Total				419	344000	

Production of seeds by the KVKs

Production of planting materials by the KVKs

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
	Brinjal	Kashi Taru	-	3200	2560	1
	Chilli	Kashi Anupam	-	1400	1120	(
	Tomato		-	1225	980	(
	Onion	Agrifound	-			
		Light Red		8000	200	
	Cauliflower	Kashi Gobhi-25	-	800	640	(
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total				14625	5500	39

Production of Bio-Products

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

Table: Production of livestock materials

	Name of the breed	Number	Value	(Rs.)	No. of Farmers
Particulars of Live stock					
Dairy animals					
Cows					
Buffaloes					
Calves					
Others (Pl. specify)					
Poultry					
Broilers					
Layers					
Duals (broiler and layer)					
Japanese Quail					
Turkey					
Emu					
Ducks					
Others (Pl. specify)					
Piggery					
Piglet					
Others (Pl.specify)					
Fisheries					
Indian carp	Rohu, Silver, Mrigal		45	591	5
Exotic carp					
Others (Pl. specify)					
Total			45	591	5

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	2063	2063	27	
Water				
Plant	350	350	14	
Manure				
Others (pl.specify)				
Total				

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted

IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution
Gorakhnath Krishi Darpan	Online Publication

X. PUBLICATIONS

Category	Number	
Research Paper	5	
Technical bulletins	10	
Technical reports	15	
Others (Abstract)	14	
Folder/Pumplet /Leaflet	28	

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

Activities conducted						
No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		

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 technolrogies

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

Awareness campaign

	Meetings		Gosthies		Field d	lays	Farmers f	air	Exhibition		Film s	now
	No.	No.of	No.	No.of	No.	No.of	No.	No.of	No.	No.of	No.	No.of
		farmers		farmers		farmers		farmers		farmers		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

- a) Effective popularization on a larger scale of any one FLD technology and its role in transformation of district agriculture with respect to that particular crop or enterprise
- b) Performance of the end results of any one technology assessed, its refinement if any and its impact in district agriculture with respect to that crop or enterprise
- c) Effect of production and supply of seeds and planting material / animal breed / or bio-product and its impact on district agriculture with respect to that crop/ enterprise/ bio-product The general format for preparing the above case studies are furnished below

Name of the KVK

TITLE

Introduction

KVK intervention

Output

Outcome Impact

Case Study

Name of the KVK: Mahayogi Gorakhnath Krishi Vigyan Kendra (MGKVK), Chaukmafi, Peppeganj, Gorakhpur, UP

Title: Enhancing chickpea production for livelihood security through varietal replacement of HYV GNG 1581

Situation analysis/ Problem statements:- Gorakhpur district is a part of the North Eastern Plain Zone of Uttar Pradesh. The soils of district are alluvial, calcareous and salt affected. The district has a large number of streams, ponds and rivers, which brings tremendous flood during the rainy season and miseries to the human and animal population. The average annual rainfall is about 132.09 mm but it varies in various part of the district. The maximum and minimum temperature varies from 48 to 04 ⁰C. This makes agriculture the most important profession of people. One day a progressive farmer Shri Baburam Yadav S/O shri Ramdhani Yadav, village Baijnathpur, Post: Netwalbazar block: campiergani, came in contact with the scientists of the KVK. He said that "we grow 1 to 1.15 acre of Chickpea crop but getting yield of chickpea approximately 10-12 q/ha". Thereafter KVK's Scientists have analyzed the main cause of low production of chickpea viz. use of non-descriptive old mixed variety and undescriptive variety, continuously use imbalanced use of fertilizer, improper weed management technique, late sowing, broadcasting method, no seed treatment, higher seed rate, indiscriminate use of insecticide. To combat the causes of yield erosion in chickpea, MGKVK Gorakhpur selected to Mr. Baburam Yadav for Cluster frontline demonstration (FLD) programmes under technology demonstration for harnessing pulse productivity of chickpea through varietal replacement of HYV GNG 1581 with other crop management practices i.e. fertilizer (N:P:K:S::20:40:20:20 kg/ha) + boron @ 10 kg/ha + pod borer management by application of Emamectin Benzoate 5% SG @ 0.4 g/liter of water at 50% flowering and at 50% pod filling stage under real farming conditions.

Plan, Implement and Support:- MGKVK Gorakhpur tries to make them aware regarding scientific cultivation of Chickpea. 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 varieties GNG 1581. That was sown on 03-11-2018 with seed cum ferti-drill and fertilizer application was done with basal application as recommended. Regular field visits were also made by the Subject Matter Specialists-Agronomy under the leadership of Senior Scientist and Head of KVK. Field days and Kisan gosthi were also organized at his field.

Output:- Mr. Baburam Yadav adopted the balanced dose of fertilizer (N:P:K:S:B::20:40:20:20:10) kg/ha in Chickpea crop as per suggestion of scientist for his one acre land. His local yield was 4.5 qt per acre with recommended technology. His yield increased by 102.66% with yield 9.12 qt per acre. The economic gain in terms of per unit expenditure gross income, net return and BCR are recorded. Rs 9624, Rs. 36480, Rs. 26856 and 3.79 correspondingly.

Outcome:- Chickpea crop is the major pulse crop of the district. This variety has been disseminated in 20 villages of the district in area of approximately 80 ha. The outcome of this demonstration motivated the farming communities to replace their old & mixed variety varieties, non-descriptive varieties. Mr. Baburam Ram is very happy on improvement in their income, livelihood and set forth example for others.

Impact:- Mr. Baburam Ram is becoming one of the progressive and learned farmers for others with regards to popularization of GNG 1581. This technology helps him for livelihood, empowerment and make him enthusiastic regards pulse 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. Baburam is very happy with this improved production and management technology and set forth example for other farmers of the district.



XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE (2019)

A. Details on ATICs

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

B. Details on Farmer's visit (Jan 2019 to Dec 2019)

	`	/
S. No	Purpose of visit	Number of farmer's visited

		72
01	Technology Information	
02	Technology Products	
03	Others if any pl. specify	

C. Facilities in the ATIC which are in operation

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

D. Technology information provided

D.1. Details on technology information (Jan 2019 to Dec 2019)

S.	Information	Number	Total				gory of inforn	ation		
No	category	of	number							
		ATICs	of							
			farmers							
			benefitted		r	r	n		n	
				Varieties	Pest	Disease	Agro-	Soil and	Post	Animal
				/ hybrids	management	management	techniques	water	Harvest	Husbandry
								conservation	technology	and
									and Value	fisheries
01	<i>V</i> : 0 11								addition	
01	Kisan Call									
	Centre /									
	other Phone									
	calls from									
02	farmers Video shows									
03	Letters									
0.4	received									
04	Letters									
05	replied									
05	Training to									
	farmers /									
	technocrats /									
06	students									
06	Others pl.									
	specify									

D.2. Publications (Print & Electronic media) (Jan 2019 to Dec 2019)

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

specify)			72
	specify)		13

E. Technology Products provided (Jan 2019 to Dec 2019)

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

F. Technology services provided (Jan 2019 to Dec 2019)

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

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION (Jan 2019 to Dec 2019)

States covered:

Number of Directorates of Extension:

S. No	Name of the Director of Extension	Number of is provided		or which to	echnolo	gical b	ackstopping
		SAU/CAU	DU	ICAR	NGO	SDA	Others (pl. specify)

A. Details on Directors of Extension

B. Workshops / meetings organized during Jan 2019 to Dec 2019

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

C. Visits made by DE / Officials in the Directorate to KVKs during Jan 2019 to Dec 2019

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

D. Overseeing of KVKs activities during Jan 2019 to Dec 2019

S. No.	Particulars	Number of fields visited	Major observations / remarks	Major suggestions given
01	On Farm Trials			
02	Front Line			
	Demonstration			
03	Others pl. specify			

E. Publication on Technology inventory during Jan 2019 to Dec 2019

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

F. Technological Products provided to KVKs during Jan 2019 to Dec 2019

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

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