# Annual Progress Report

(April, 2018- March, 2019)



Submitted by

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# PROFORMA FOR PREPARATION OF ANNUAL REPORT (April-2018-March-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	66	1020	417	1437
Rural youths	1	11	0	11
Extension functionaries	1	0	15	15
Sponsored Training	3	200	31	231
Vocational Training	0	0	0	0
Total	71	1231	463	1694

#### 2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	100	40.00	
Pulses	160	62.50	
Cereals	30	5.00	
Vegetables	20	1.00	
Other crops	60	8.00	
Hybrid crops			
Total			
Livestock & Fisheries			
Other enterprises			
Total			
Grand Total	370	116.5	

#### 3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	8	30	30
Livestock	2	8	8
Various enterprises (Drudgery reduction and Drumstick leaf powder)	2	12	12
Total	12	50	50
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
<b>Grand Total</b>	12	50	50

#### **Extension Programmes**

Category	No. of Programmes	Total Participants
Extension activities	1636	24171
Other extension activities	34	-
Total	1670	24171

## 4. Mobile Advisory Services

				Type of Messages				
Name of KVK	Message Type	Crop	Livestock	Weather	Marke -ting		Other enterprise	Total
	Text only	436	74	12	5	32	341	25
	Voice only	2500	18	11	6	8	17	20
	Voice & Text both							
	Total Messages	2936	92	23	11	40	358	45
	Total farmers Benefitted							

## 5. Seed & Planting Material Production

	Quintal/Number	Value Rs.					
Seed (q)	433.25	-					
Planting material (No.)	21355	2542					
Bio-Products (kg)							
Livestock Production (No.)							
Fishery production (No.)							
Note: Fishery production number should be given in numbers only.							

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

Samples	No. of Beneficiaries	Value Rs.
Soil	348	-
Water		
Plant		
Total		

#### 7. HRD and Publications

Sr. No.	Category	Number
1	Workshops	05
2	Conferences	01
3	Meetings	01
4	Trainings for KVK officials	
5	Visits of KVK officials	
6	Book published	
7	Training Manual	
8	Book chapters	01
9	Research papers	05
10	Lead papers	02
11	Seminar papers	12
12	Extension folder	48
13	Proceedings	
14	Award & recognition	3
15	On going research projects	

#### **DETAIL REPORT OF APR-2018-19**

# IX. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telep	hone	E 21	XX 1		
	Office	Fax	E-mail	Website		
Mahayogi Gorakhnath	0551-	0551-				
Krishi Vigyan Kendra,	2255453	2255455		www.mgkvk.in		
Chauk Mafi (Peppeganj),	2255454		gorakhpurkvk2@	_		
Jangal Kaudia, Gorakhpur,			gmail.com			
(U.P.)						

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

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

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

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

1.4. Year of sanction: 2016

# 1.5. Staff Position (as on 30<sup>th</sup> March, 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Design-ation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent ent /Temp- orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Sr. Scientist and Head	Dr. Rajendra Pratap Singh	Sr. Scientist and Head	Plant Pathology	37400- 67000	46400	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	21630	31/07/2017	Temporary	Others	9415745095		vpslpm@gmail.com
3	Subject Matter Specialist	Vacant		Home Science								
4	Subject Matter Specialist	Dr. Ajit Kumar Srivastava	SMS	Horticulture	15600- 39100	21630	01/08/2017	Temporary	Others	8787264166		ajiticar@gmail.com
5	Subject Matter Specialist	Dr. Rahul Kumar Singh	SMS	Agri. Extension	15600- 39100	21630	01/08/2017	Temporary	Others	9454054072		rahulrrext91@gmail.com
6	Subject Matter Specialist	Mr. Avanish Kumar Singh	SMS	Agronomy	15600- 39100	21630	01/08/2017	Temporary	Others	9792099943		avanishsinghicar@gmail.com
7	Subject Matter Specialist	Mr. Sandeep Prakash Upadhyay	SMS	Soil Science	15600- 39100	21630	01/08/2017	Temporary	Others	9690475529		sandeepupadhyay383@gmail.com
8	Programme Assistant Computer	Gaurav Kumar Singh	Programme Assistant- Computer	IT	9300- 34800	4200	14/08/2017	Temporary	Others	9838674999		vishengaurav@gmail.com
9	Programme Assistant (Lab. Tech.)	Jitendra Kumar Singh	Programme Assistant	Lab. Technician	9300- 34800	4200	14.08.2018	Temporary	OBC	9956912021		jitendra.s273158@gmail.com
10	Farm Manager	Ashish Kumar Singh	Programme Assistant	Farm Manager	9300- 34800	4200	14.08.2018	Temporary	Others	7752941868		ashishksingh1994@gmail.com
11	Assistant	Shubham Pandey	Assistant	Assistant	9300- 34800	4200	14.08.2018	Temporary	Others	7752941868		luckywatson123@gmail.com

12	Stenographer- III	Gangesh Giri	Stenographer Grade-III	Stenography	5200- 20200	2400	14.08.2018	Temporary	OBC	7309018154	gangeshgiri1012@gmail.com
13	Driver-cum- Mechanic	Sanjay Kumar Yadav	Driver-cum- Mechanic	Driver	5200- 20200	2000	14.08.2018	Temporary	OBC	9415853387	sanjayyadavmgkvk@gmail.com
14	Driver-cum- Mechanic	Dinesh Rao	Driver-cum- Mechanic	Driver	5200- 20200	2000	14.08.2018	Temporary	OBC	9695713464	dineshgkp1991@gmail.com
15	Supporting staff Grade-I	Jai Prakash Singh	Supporting Staaf Grade-I	Skilled Supporting Staaf	5200- 20200	1800	14.08.2018	Temporary	Others	8545003001	jaiprakashsingh1005@gmail.com
16	Supporting staff Grade-I	Abhimanyu Kumar Verma	Supporting Staff Grade-I	Skilled Supporting Staff	5200- 20200	1800	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:

# IX. Buildings

Source			Stage						
S.		of	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 Building	ICAR	2 march	-	144.09 lakh				
2.	Farmers Hostel	ICAR	Under construction	-	66.41 lakh				
3.	Staff Quarters (1- Head and 2- Supporting staff)	ICAR	Completed	-	61.52 lakh				
4.	Staff Quarters (6)								
5.	Demonstration Units (2)	-							
6	Fencing	-							
7	Rain Water harvesting system	-							
8	Threshing floor	-				_			
9	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.				

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 (2018-19)

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

S.	Farming system/enterprise
N	
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 loam	160952
2.	AES-2	Soil Type-Silty loam, Khadar Soil	121714
3.	AES-3	Soil Type-Clay Loam	52651

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

S. No	Сгор	Area (thousand ha)	Production (thousand ton)	Productivity (Qtl/ha)
A	FIELD CROPS INC	CLUDING OIL SEED	S 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
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			
C	VEGETABLES						
1.	Potato	5000	125490	250.90			

#### 2.5. Weather data

Month	Rainfall (mm)	Tempe	erature <sup>0</sup> C	Relative Humidity (%)
		Maximum	Minimum	

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

Category	Population (2012)	Production (2016-17) 000mt	Productivity
Cattle			
Crossbred+ Indigenous	288765	366.21	-
Buffalo	279122		
Sheep	7894	Wool 7.22 (000Kg)	
Crossbred			
Indigenous			
Goats	196224	62.45 lakh Kg	
Pigs	18032		
Crossbred			
Indigenous			
Rabbits			
Poultry	682246	Eggs 538.3 (lakh)	
Hens			
Desi			
Improved			
Ducks			
Turkey and others			
Category	Area	Production	Productivity
Fish			
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

# 2.7 Details of Operational area / Villages (2018-19)

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

		•				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.	Sahjanwa	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	Bisunpur, Jangal aurahi, Lakshmip ur, Parmesha rpur, Jungle Dhushan, Siktor, Maniram, Sonbarsh	Wheat, Arhar, Mustard, Gram, Potato, Tomato, Bottle Gourd, Cucumber, Pumpkin, Ridge Gourd, Banana, Mango	do	do

	T		1	Т	T	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

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
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# 2.8 Priority/thrust areas

SN	Crop/Enterprise	Thrust area
1	Crop Production	Production Technology for kharif, rabi and zaid crop. Improved Production Technology through mechanization
2	RCT	Promotion of resource conservation technology
3	Entrepreneurship	Entrepreneurship development in rural youth
4	Drudgery reduction	Drudgery reduction technology and Drudgery reducing farm implements among farm women
5	Horticultural crops	Promotion of high value horticultural crop, Quality seed/planting material production
6	Live stock	Raising productivity of livestock, upgrading genetic potential through artificial insemination, use of mineral mixture, disease and parasitic control, proper feeding and management
7	Organic inputs production	NADEP and Vermi-composting
8	IPM	Promotion of Integrated Pest Management strategies for safe food production and environment protection
9	INM	Promotion of site specific nutrient management through INM for sustainable soil health

11	Kitchen Gardening	Nutritional security through kitchen gardening
12	Cucurbitaceous (bottle gourd, pumpkin, sponge gourd, bitter gourd etc.), groundnut, potato	Introduction of HYV, integrated disease/pest management, integrated nutrient management
	Rice, Wheat, Pulses (Pigeon pea, chick pea, lentil, field pea, urd and moong)	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, Resource Conservation Technology, Integrated Weed Management, Seed production technology
14	Cole crop(cauliflower, cabbage), Tomato, Okra, Chilli	Introduction of HYV, integrated pest and disease management, integrated nutrient management

#### **2.9** Intervention/ Programmes for the doubling the farmers income – during 2018-19

#### **Demonstrations**

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

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

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

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

<b>Before</b> 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) \*

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) \*

<b>Before</b> 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) \*

<b>Before</b> 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.

# IX. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2018-19

OF	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)				
	1				2				
Number of OFTs Total no. of T		no. of Trials	Area in ha Nu			ber of Farmers			
Targets	Achievement	Targets	Achievement	Targets Achievement		Targets	Achievement		
12	2 12 51 48		124.8	124.8	395	395			

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)						Extension Activities				
Number of Courses Number of Participants			Number of Number of participant activities			of participants				
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achieve ment	Targets	Achievement		
Farmers	83	69	1645	1668	1024	1636	6945	22322		
Rural youth	11	1	150	15						
Extn. Functionaries	20	1	300	15	333	1313	220	24171		

S	eed Production	(Qtl.)	Planting material (Nos.)				
	5		6				
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers		
403	433.25	-	20000	21355	31		

# I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various Crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Nutrient Management	Paddy	Assessment of Zinc with biofertilizer for enhancing nutrient use efficiency in paddy for yield maximization.	3	3
	Cauliflower	Assessment of efficient use of Nutrient with HYV for higher income	4	4
Varietal Evaluation	Pigeon pea	Assessment of high yielding variety of pigeon pea	3	3
	Mustard	Assessment of yield performance of mustard through HYV	3	3
	Tomato	Assessment of efficient use of Ferrous Amonium Sulphate with HYV for yield Maximization	4	4
	Wheat	Assessment of high yielding variety of wheat	3	3
Integrated Pest Management	chickpea	Assessment of pod borer management in chickpea	4	4
Integrated Crop Management				
Integrated Disease Management	Paddy	Assessment of false smut management in paddy	4	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	groundnut	Assessment of drudgery reducing equipments (groundnut decordicator) for dehusking of groundnut shell	03	03
Storage Technique				
Others (Pl. specify)				
Total				

Summary of technologies assessed under livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Disease Management				
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management	Cow	Assessment of UMMB animal feed supplementation to control the infertility	05	05
Production and Management	Buffalo	Assessment of conventional and bypass animal feed to enhancing	03	03

	milk yield	
Others (Pl. specify)		
Total		

Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterpris e	Name of the technology assessed	No. of trials	No. of farmer
Health management		Assessment of drumstick leaf powder as remedy of low hemoglobin level among adolescent girls	10	10
_				

**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. B. TECHNOLOGY REFINEMENT

Summary of technologies refined under various Crops by KVKs

Thematic areas	Crop	Name of the technology refined	No. of trials	No. of farmers
Integrated Nutrient Management				
Varietal Evaluation				
Integrated Pest Management				
Integrated Crop Management				
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				
Total	•			

# Summary of technologies refined under various ${f livestock}$ by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology refined	No. of trials	No. of farmers
Disease Management				
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management				
Production and Management				
Others (Pl. specify)				
Total				

#### Summary of technologies refined 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 refined 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 AND REFINEMENT IN DETAIL

# PEST AND DISEASE MANAGEMENT (Paddy) OFT-1

**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 Propiconazole 25% BC @ 1 ml/liter water at panicle initiation were comprised under on farm trial. The incidence of false smut in paddy was recorded 6.0% in demonstration plot while it was 10.50% in farmers practice. The average yield of 49.50 q/ha was obtained from the demonstration plot whereas 41.20 q/ha from farmer practices and yield was increased by 20.15 per cent. Percent disease reduction was recorded 42.86% with application of IDM strategies. Farmers accepted and appreciated the technology.

Table:- Performance of integrated approach

Technology Option	No. of Trials	Avg. infected panicle/hill	Avg. infected panicle/m <sup>2</sup>	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	2.75	3.0	41.20	-	10,50
Use of integrated approach		1.50	2.0	49.50	20.15	6.0

Technology Option	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
	7	8	9	10
Farmers practice	26950	65920	38970	2.45
Use of integrated	29250	79200	49950	2.71
approach				

#### (Chick Pea) OFT-2

**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 strategies of Pod borer in Chick Pea

Technology Option	No. of Trials	% of Affected plants/m <sup>2</sup>	% 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

#### INTEGRATED NUTRIENT MANAGEMENT

(Paddy) OFT-3

**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*- 1x10<sup>8</sup> cfu @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 52.83 q/ha yield which was 24.80% higher over farmer's practice (42.33 q/ha). The other traits like number of effective tillers/plant, plant height and number of grains/spike were recorded more i.e. 18, 94 and 258, respectively in demonstrated technology as compared to farmers 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		14	212	85	42.33	-
sulphate & Azotobacter T-2: Sambha sab 1+ 20% less dose of chemical Fertilizer(100:40:40::N	03	18	258	94	52.83	24.80
:P:K)kg/ha+zinc sulphate33% @2% foliar spra, Azotobacter @200ml/acre.						

Gross Cost (Rs/ha)	Gross Return	Net Return	B:C Ratio
	(Rs/ha)	(Rs/ha)	
26550	65616	39066	2.47
29750	81891	52141	2.75

#### VARIETAL EVALUATION

(Pigeon pea) OFT-4

**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 Wheat Varieties IPA 203 under Timely Sown Irrigated Condition

Technology	No.	Plant	No of	Grain Yield	%	Gross	Gross	Net	B:C
Option	of	height	Grain	q/ha	Increa	Cost	Returns	Returns	Ratio
	Trial	(cm)	/spike		se in	Rs/ha	Rs/ha	Rs/ha	
	S				Yield				
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

(Mustard) OFT-5

**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 Wheat Varieties RH 749 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)	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

#### NUTRIENT MANAGEMENT OFT-6

**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 study shows that the crop yielded 301.2 q/ha by the spray of ferrous ammonium sulphate over without spray yielded 245.7 q/ha. The net return from the demo field is Rs.231250/ha with 4.30 B:c ratio in comparison to Rs.180750/ha with B:C ratio of 3.78 of farmers practice. The results indicated that the use of Ferrous Ammonium Sulphate gave 22.5 per cent increase in yield over without spray of FAS. Farmers accepted and appreciated the demonstrated technology.

Table: Effect of Tomato HYV (T6) + 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)		245.7	-	65000	245750	180750	3.78
T2:- HYV (T6) + spray of FAS (Ferrous Ammonium Sulphate) @ 200ppm at 30, 45 & 75 DAT	4	301.2	22.5	70000	301250	231250	4.30

#### NUTRIENT MANAGEMENT OFT-7

**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 188.7 q/ha by the foliar spray of 18:18:18 NPK over without spray yielded 153.5 q/ha. The net return from the demo field is Rs.164500/ha with 3.65 B:C ratio in comparison to Rs. 130200/ha with B:C ratio of 3.41 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 22.93 per cent increase in yield over without spray of NPK as foliar spray.

Table: Effect of Cauliflower HYV (Pant Shubhra) + 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)		153.5		54000	184200	130200	3.41
T2:- HYV (Pant Shubhra) + spray of soluble fertilizer 18:18:18NPK @ 0.5% at 20, 30 DAT	4	188.7	22.93	62000	226500	164500	3.65

# LIVE STOCK ENTERPRISES (Cows) OFT-8

**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	Per cent incidence of mastitis
Use of common salt (Farmers practice)		Awaited
Use of UMMB @ 1 Bricks for 7 days/ animal (recommended practice)	5	

# LIVE STOCK ENTERPRISES (Buffalo) OFT-9

**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 Bye-Pass feed to enhance milk yield

S.No.	Technology Option	No. of trials	Result
1.	Use of choker and cakes (Farmers Practice)		Awaited
2.	Use of Bye-Pass animal feed @	03	
	4kg/day/animal		

# (Drumstick Leaf Powder) *OFT-10*

Problem definition: Low Hemoglobin level among adolescent girl.

**Technology assessed**: Assessment of drumstick leaf powder as remedy of low haemoglobin level among adolescent girls.

Adolescent girls were suffering from low hemoglobin level therefore this OFT was conducted considering the lower income of farmers/rural people as well as availability of drumstick leaf throughout the year rather than availability of fruits for the season (only once in the year). Here we are using drumstick leaf power (twigs) as remedy to reduce hemoglobin problem among adolescent girls.

Table:

S.No.	Technology Option	No. of trials	Hb level (g/dl)		% increase	after
					treatment applied	
			Pre blood	Post		
			test	blood		
			(Prevailing	test		
			Practice)			
			(Av.)			
1.	T <sub>1</sub> – Iron suppliment		8.1	9.2	13.58	
	as aonla powder	10				
	(10g/day)					
2.	T <sub>2</sub> - Drumstick leaf		8.1	9.9	22.22	
	powder (10g/day)					

#### (Drudgery Reduction)

OFT-11

Problem definition: high consumption of time and labour cost in de-husking of groundnut.

**Technology assessed**: Assessment of drudgery reducing equipment (groundnut decorticator) for de-husking of groundnut shell.

Farmers were using traditional practice of de-husking by manual simply they were using a small piece of stick by forcing single on heap which cause great pain in their hand specially in thumb or finger.

MGKVK, Gorakhpur designed on farm trial on groundnut decorticator for reducing drudgery reduction during de-husking of groundnut shells. The demonstrated technology reduces drudgery in the form of time, labour cost and rate of loss of seeds.

**Table: Use of Groundnut Decorticator for Drudgery reduction.** 

Table. Use of C	Table. Use of Grounding Decordator for Druggery reduction.									
Technology	No. of Trial		Eco	onomic parame	ter					
option		Pods	% increase	Man days	Labour	B:C ratio				
		decorticated	in drudgery	(hr.) /50 kg.	saving					
		kg/person/hr	reduction	Groundnut						
Decortication		2.9		15 hr	5					
through	3		90.06							
Hand						1:5				
Trough		31.2		3 hr 15 min.	1					
Groundnut										
Decorticator										

#### VARIETAL EVALUATION

(Wheat) (Trial No-12)

**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 HYV Wheat Varieties HD-2967 under Timely Sown Irrigated Condition

Technology Option	No. of Trial	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

#### II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2016-17 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology			
					No. of villages	No. of farmers	Area in ha	
1.	Paddy	INM	Paddy + Balanced dose of fertilizer and use of ZnSO4 (N:P:K:::120:60:40 farmers share) + 25	Demonstration, Trainings, Field Day, Advisory Services, News Paper Coverage	03	20	2.0	

			kg ZnSo4 kg/ha-				34
2.	Wheat	INM	Wheat-Mung bean Paddy-Wheat Var. HD 2967+120:60:40::N:P:K + VAM @ 10kg+500kg FYM/ha-Mung bean	Demonstration, Trainings, Field Day, Advisory Services	02	10	3.0
3.	Chickpea	INM	Paddy-Chickpea var. GNG-1581+Balance dose of fertilizer (12:40:30:30:10:: N:P:K:S:B) Kg/ha + intercropping with coriander-Mung bean	Demonstration, Trainings, Field Day, Advisory Services	03	10	2.5
4.	Bitter guard	ICM	HYV (narendra Baramasi) with machan system	Demonstration, Trainings, Advisory Services	03	10	0.50
5.	Cauliflower	ICM	Intercropping of cauliflower with banana crop (3:1)	Demonstration, Trainings, Advisory Services	02	10	0.50
6.	Sorghum	VE	Sorghum seed var. CSH-24 MF	Demonstration, Trainings, Advisory Services	8	30	4
7.	Berseem	VE	Berseem var. BB-2	Demonstration, Trainings, Advisory Services	7	30	4
8	Mustard	ICM	Seed (RG-749) + imidacloroprid 17.5 SL@ 1 ml / 2 Ltr water + sulphur 80 % WDG 2 gm / Ltr of water	Demonstration, Trainings, Field Day, Literature Distributed , Advisory Services	10	100	40
9	Chickpea	ICM	Seed (GNG-1581) + imamactinbezoate5% SG @ 0.4 gm / ltr of	Demonstration, Trainings, Field Day, Literature Distributed, Advisory Services	5	25	10
10	Pigeonpea	ICM	Seed (NA-2) + imamactinbezoate5% SG @ 0.4 gm / ltr of water	Demonstration, Trainings, Field Day, Literature Distributed, Advisory Services	10	125	50
			0 2 1 (A1 and A2)		53	370	116.5

<sup>\*</sup> Thematic areas as given in Table 3.1 (A1 and A2)

b. Details of FLDs implemented during **2018-19** (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	Thematic area	Technolog y Demonstr ated	Season and year	Area	Area (ha)		No. of farmers/ demonstration		
					Proposed	Actual	SC/ST	Others	Total	
1.	Paddy	INM	Zn	Kharif, 2018	2.0	2.0		20	20	
2.	Chickpea	INM	Boron	Rabi,	2.5	2.5		10	10	

				2018					
3.	Wheat	INM	VAM	Rabi 2018	3.0	3.0	10	10	
4	Bitter guard	ICM	Macha n system	Kharif, 2018	0.5	0.5	10	10	
5	Cauliflower	ICM	Intercro pping	Rabi, 2018	0.5	0.5	10	10	
6	Sorghum	ICM	Feed and Fodder managem ent	Kharif, 2018	4	4	30	30	
7	Berseem	ICM	Feed and Fodder managem ent	Rabi, 2018	4	4	30	30	
8	Mustard	ICM	VE	Rabi, 2018	40	40	100	100	
9	Chickpea	ICM	VE	Rabi, 2018	10	10	25	25	
10	Pigeonpea	ICM	VE	Kharif, 2018	50	50	125	125	
					116.5	116.5	370	370	

# Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Star	tus of	soil	Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
	, ŭ	Fa sit (RF/I	SS	N	Р	K	Previ	Sow	Harv	Se	No.
Pigeo nopea	Kharif 2018	irrigated	Sandy loam	L	L	М	Wheat	26 June- 10 july 2018	8-17 April, 2018		
Musta rd	Rabi 2018- 19	irrigated	Sandy loam	L	L	М	Paddy	25 oct -8 Nov 2018	12-28 March 2018		
Chick pea	Rabi 2018- 19	Rabi 2018	Sandy loam	L	L	M	Paddy	12-20 Nov. 2018	8-15 April, 2018		
Paddy	Kharif 2018	irrigated	Sandy loam	L	L	М	Wheat	2-14 july2018	15-27 NOV, 2017		
Bars sem	Rabi 2018- 19	irrigated	Sandy loam	L	L	М	Paady	25-30 NOV, 2018	10-20 April, 2018		
Sorgh um	Kharif 2018	irrigated	Sandy loam	L	L	М	Wheat	26 June- 10 july 2018	22-28 October 2018		
Bitter Guard	Kharif 2018	irrigated	Sandy loam	L	L	М	Wheat	26 June- 10 july 2018	20-28 Nov 2018		
Caulifl ower	Rabi 2018- 19	irrigated	Sandy loam	L	L	М	Wheat	12-25 NOV, 2018	3-10 March, 2019		

Technical Feedback on the demonstrated technologies

S. No	Feed Back							
Mustard								
1	It is suitable for 35rganize 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 pea								

	50
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 <sub>4</sub> 25kg/ha) found an important role in
	higher sustainable production
2	Application of ZnSO <sub>4</sub> 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. Narendra baramasi is HYV, Length of Fruit av26cm, av. Yield 250Q/ha

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

Farmers' reactions on specific technologies

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 <sup>th</sup> October that reduces the aphid infestation and resultantly increase the production
3.	Farmers appreciated the demonstration
Pigeon P	ea ea
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. Narendra baramasi 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

**Extension and Training activities under FLD** 

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	03	22.10.2018; 12.3.2019;1.4.2019	68	
2	Farmers Training	13	25.6.18, 23.6.18,27.6.18;22.05.18; 28.05.18; 27.4.18;13.4.18;25.7.18; 27.10.18;17.10.18; 29.10.18; 30.12.18; 16.11.2018	459	
3	Media coverage	15	26.6.2018, 24.6.18, 28.6.2018, 28.4.2018, 14.4.2018	mass	
4	Training for extension functionaries				

### **Performance of Frontline demonstrations**

### Frontline demonstrations on oilseed crops

Cron	Thematic	technology	Variety	No. of	Area			eld (q/ha)		% Increase	Ecor	nomics of o		tion	E	conomics (Rs./		
Crop	Area	demonstrated	variety	Farmers	(ha)	Himb	Dem		Check	in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High	Low	Average			Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Groundnut						,								<u></u>				
Sesamum																		
		Seed (RG-749) +																
Mustard	ICM	imidacloroprid 17.5 + sulphur 80 %	RH 749	100	40	16.2	21 5	18.72	12.62	48.83	23160	61776	38616	2.67	21405	41646	20195	1.94
(CFLD)	10111	WDG@2gm/lt of	111743	100	40	10.2	21.5	10.72	12.02	40.05	23100	01//0	36010	2.07	21403	41040	20133	1.54
		water			<u> </u>					<u> </u>				<u> </u>				
						,												
Toria																		
Linseed																		
										-								
Sunflower										-								
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Soybean					<b></b>	,												
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Grand total				100	40	16.2	24 5	10.72	12.62	40.02	22160	61776	20616	267	21405	41646	20105	1 0 4
J. 4114 10141				100	40	16.2	21.5	18.72	12.62	48.83	<b>23100</b>	61776	38010	2.6/	21405	41646	20195	1.94

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

\*\* BCR= GROSS RETURN/GROSS COST

# Frontline demonstration on pulse crops

	Thematic	technology		No. of	Area		Yield	l (q/ha)		%	Economi	ics of demon	stration (Rs./	ha)	I	Economics o (Rs./ha		
Crop	Area	demonstrated	Variety	Farmers		High	Demo Low	Average	Check	Increase in yield	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Pigeon pea	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		125	50	18.4	13.1	14.04	10.27	36.70	21255	70200	48945	3.30	19050	51350	32300	2.78
Blackgram																		
Greengram																		
Chickpea	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	ICM	Seed + imamactin 39rganize 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
Fieldpea																		
Lentil																		
Horsegram																		
Total																		

# **FLD on Other crops**

			No. of	Are			d (q/ha)		%	Other P	arameters	Econom	ics of demo	onstration (Rs	s./ha)	Econo	mics of	check (Rs	./ha)
Category & Crop	Thematic Area	Name of the technology	Farmer S	a (ha)	Hig h	Demo Low	Average	Chec k	Change in Yield	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Retur n	Net Return	BCR (R/C)
Cereals											<b></b>								
Paddy	INM	Seed + Balanced dose of fertilizer and use of ZnSO4 33%@2% foliar spray	20	2	54.5	48.00	51.42	42.78	20.20	No. of Tiller:- 18; PH 94 cm	No. of Tiller:-14; PH 85 cm	50443.00	2.72	26950.00	66301. 00	39351.0 0	2.46	51.42	42.7 8
Waterlogged Situation																			
Coarse Rice																			
Scented Rice																			
Wheat																			
Wheat Timely sown	INM	Seed+120:6 0:40 kg NPK+ VAM @10kg+500 Kg FYM/ha	10	1	50.1	47.1	48.78	38.51	26.67	No. of Tiller:- 16; PH 101 cm	No. of Tiller:-9; PH 94cm	29954.00	82917.5	52963.5	2.77	29754. 00	6646	36713.0 0	2.23
Wheat Late Sown																			
Mandua																			
Barley																			

<sup>\*</sup> Economics to be worked out based total cost of production per unit area and not on critical inputs alone. \*\* BCR= GROSS RETURN/GROSS COST

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Total Cereals																			
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Barnyard millet																			
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Finger millet																			
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										fruit	funit								
Bittergourd	INM	HYV Narendra Baramasi with machan system	10	0.50	332. 0	295.0	320.00	256.00	25.00	fruit length:- 22-28 cm: no.of ruits per plant:- 35-40	fruit length:- 15-18 cm: no.of ruits per plant:-25- 30	180000.00	512000	332000.00	2.84	170000 .00	4096 00.00	239600. 00	2.41
Bittergourd	INM	Narendra Baramasi with machan	10	0.50	332. 0	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm:	180000.00	512000	332000.00	2.84	170000 .00	4096 00.00	239600. 00	2.41
Bittergourd	INM	Narendra Baramasi with machan	10	0.50	332. 0	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000 .00	4096 00.00	239600. 00	2.41
Bittergourd	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600. 00	2.41
	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600. 00	2.41
Bittergourd  Cowpea	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600. 00	2.41
	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600. 00	2.41
	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600. 00	2.41
Cowpea	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600. 00	2.41
	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600. 00	2.41
Cowpea	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600. 00	2.41
Cowpea Spongegourd	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600. 00	2.41
Cowpea Spongegourd	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea Spongegourd	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea Spongegourd Petha	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea Spongegourd Petha	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea Spongegourd	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea  Spongegourd  Petha	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea  Spongegourd  Petha	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea  Spongegourd  Petha  Tomato	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea Spongegourd Petha	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea  Spongegourd  Petha  Tomato	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea  Spongegourd  Petha  Tomato	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41
Cowpea  Spongegourd  Petha  Tomato	INM	Narendra Baramasi with machan	10	0.50	332.	295.0	320.00	256.00	25.00	length:- 22-28 cm:	length:- 15-18 cm: no.of	180000.00	512000	332000.00	2.84	170000	4096 00.00	239600.	2.41

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Onion  Coriender  Lettuce	ICM	Intercrop	10	0.50	95.2	92.88	82			62000	130032	68032	2.10					
Onion  Coriender  Lettuce  Cabbage	ICM	Intercrop ping of	10	0.50	95.2	92.88	82			62000	130032	68032	2.10					
Onion  Coriender  Lettuce  Cabbage	ICM	ping of	10	0.50	95.2	92.88	82			62000	130032	68032	2.10					
Onion  Coriender  Lettuce  Cabbage	ICM	ping of	10	0.50	95.2	92.88	82			62000	130032	68032	2.10					
Onion  Coriender  Lettuce  Cabbage	ICM	ping of cauliflowe	10	0.50	95.2	92.88	82			62000	130032	68032	2.10					
Onion  Coriender  Lettuce  Cabbage	ICM	ping of cauliflowe r with	10	0.50	95.2	92.88	82			62000	130032	68032	2.10					
Onion  Coriender  Lettuce  Cabbage	ICM	ping of cauliflowe r with	10	0.50	95.2	92.88	82	-		62000	130032	68032	2.10					
Onion  Coriender  Lettuce  Cabbage	ICM	ping of cauliflowe r with banana	10	0.50	95.2	92.88	82			62000	130032	68032	2.10					
Onion  Coriender  Lettuce  Cabbage	ICM	ping of cauliflowe r with banana	10	0.50	95.2	92.88	82			62000	130032	68032	2.10					
Onion  Coriender  Lettuce  Cabbage	ICM	ping of cauliflowe r with	10	0.50	95.2	92.88	82			62000	130032	68032	2.10					
Onion  Coriender  Lettuce  Cabbage	ICM	ping of cauliflowe r with banana	10	0.50	95.2	92.88	82			62000	130032	68032	2.10					

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/ <u>-</u>		7	°F	<b>-</b> †	"T		1	I''''''''''	r	T	7	Т	T:	T	ı	Y	·	ГТ	T
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Turmeric									<u> </u>	<u> </u>	<u> </u>			L				Ĺ	
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				1						İ	<b></b>							[	
Total Spices			Ϊ	<b>-</b>	``				Ī	Ť	İ	1	 		j			l T	†
Commercial																			
Crops																			
Sugarcane			<b>-</b>	-															
Juga. Ju				-	<del> </del>					<b>!</b>	<del> </del>		ļ				<del>                                     </del>	<u> </u>	<del> </del>
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Potato				<b>.</b>	<u> </u>					ļ								ļ	ļ '
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Total																		<u> </u>	
Commercial			I									<u> </u>					<u> </u>	iJ	<sup> </sup>
Medicinal &																			
aromatic																			
plants																			
Mentholment				-															
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Kalmegh				-														<u> </u>	ļ
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Ashwagandha				<b>_</b>						ļ								ļļ	ļ '
				<b>_</b>					ļ	ļ	<u> </u>	<u> </u>					!	<u> </u>	<b> </b>   '
										<u> </u>	<u> </u>		<u> </u>						<u> </u>
Total				T						Ī							Γ '	[	[ ] '
Medicinal			<u> </u>		<u> </u>				<u> </u>		<u></u>	<u> </u>					!	i	'
Fodder Crops																			
Sorghum (F)	VE	Seed (CSH	30	4	885	835		_		multicut	no. of						3600	29870.	5.8
		24MF)					860	675	27.41	variety4	cutting-3	F00F	40000	42205.00	0.01	C120			
				ļ					ļ	cutting	cutting	5995	48000	42005.00	8.01	6130	0	00	7
					<u> </u>					ļ	<u> </u>	<u> </u>				ļ	<u> </u> !	<u> </u>	<u>                                     </u>
										<u> </u> 	<u></u>							<u> </u>	<u> </u>
Cowpea (F)										I I								<u>[</u> ]	
							<b></b>		<b> </b>	<b>1</b>	<b>                                     </b>		<b> </b>						
				<u> </u>					5		<b>4</b>						T 7		1
Maize (F)				-						<u> </u>								<u> </u>	
				<b>-</b>							<b> </b>							<u> </u>	†
		1	· <b> </b>	<del> </del>	<del>                                     </del>				}	<del> </del>	<del> </del>	<del> </del>	ļ		İ		<del> </del>	tt	<del> </del>
Lucern										<b>!</b>								h	
Luceiii				<u> </u>	<u> </u>					<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>			<b>}</b>	ļ
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										ļ							<u> </u>		
										Av.	Av.								
										Green	Green								
										fodder	fodder						1011	65210.	2.8
Berseem	VE	Seed(BB2)	30	4	945	770	848.5	562	50.98	1.7 Kg	1.12 Kg	40800	152730	111930.00	3.74	35950	60	00	1
										per	per						00	00	1
										SQM/c	SQM/cutt								
										utting	ing								
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J				_1				l	L	L	J		L			J		لـــــــــــــــــــــــــــــــــــــ	4

Oat (F)										
										<u> </u>
Total fodder										
Grand total										

<sup>\*</sup> Economics to be worked out based total cost of production per unit area and not on critical inputs alone. \*\* BCR= GROSS RETURN/GROSS COST

### **FLD on Livestock**

Category	Thematic area	Name of the technology	No. of Farmer	No.of Units (Animal/	Major pa	rameters	% change	Other pa	rameter	Econom	ics of dem			E	conomics (Rs	of check	į.
		demonstrated		Poultry/ Birds, etc)	Demo	Check	in major parameter	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net	BCR (R/C)
Cattle																	
Buffalo																	
Buffalo Calf																	
Dairy																	
Poultry																	
Sheep & Goat																	
Vaccination																	
Grand Total																	

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

\*\* BCR= GROSS RETURN/GROSS COST

### **FLD on Fisheries**

Category	Thematic	Name of the technology	No. of	No.of	Major pa	% change	Other pa	rameter	Econor	mics of der	nonstratio	n (Rs.)			s of check s.)		
Category	area	demonstrated	Farmer	units	Demons ration	Check	in major 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																	
Grand Total																	

<sup>\*</sup> 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	inits in major					Econom	ics of dem Rs./	onstration unit	(Rs.) or			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																
Apiculture																
					<u> </u>											
Maize Sheller																

								70
Value Addition								
Vermi Compost								
Grand Total other enterprises								

### **FLD on Women Empowerment**

	Category	Name of	No. of	Name of observations	Demonstration	Check
I,		technology	demonstrations			
ı						
ŀ						
Ī.						
ı						

### **FLD on Farm Implements and Machinery**

	Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed obs		% change in major	Labo	r reduction	n (man day	s)	(Rs	Cost redu		)
							Demo	Check	parameter	Land preparation	Sowing	Weedin g	Total	Land preparati on	Labour	Irrigati on	Total
F																	
L																	Ī

# FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology	No. of Farmer	No. of Units		(Kg)	% change	Other p	arameters	Есоі	nomics of o		tion	I	Economics (Rs./l		
		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 2018-19)

				_		Yield (q/	ha)			Econo	mics of dem	onstration (Rs.	./ha)
Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)		Demo		1	% Increase in yield	Gross	Gross		BCR
	uemonstrateu	Variety	Failleis	(IIa)	High	Low	Average	Check	iii yieiu	Cost	Return	Net Return	(R/C)
Oilseed crop													
Total													
Pulse crop													
Total													
Cereal crop													
Total													
Vegetable crop													
Total													
Fruit crop													
Total													
Other (specify)													
Total													
Grand Total													

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

# IX. Training Programme

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of		0:1		I	Participant	S			
	courses	27.1	Others	TD 4.1	37.1	SC/ST	TD 4.1		Frand Tot	
I Cook Drodovskien		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production Weed Management				0	0	0	0	0	0	0
Resource Conservation Technologies				0	0	0		0	0	0
<del>-</del>	1	- 00	_	0	4	0	0	0	0	0
Cropping Systems	1	28	3	31	1	0	1	29	3	32
Crop Diversification	1	21	6	27	0	0	0	21	6	27
Integrated Farming				0			0	0	0	0
Micro Irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management				0			0	0	0	0
Soil & water conservatioin				0			0	0	0	0
Integrated nutrient management	3	80	1	81	0	0	0	80	1	81
Production of organic inputs				0			0	0	0	0
Others (pl specify)			0	0		0	0	0	0	0
Total	5	129	10	139	1	0	1	130	10	140
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	4	60	18	78	4	6	10	64	24	88
Off-season vegetables				0			0	0	0	0
Nursery raising	1	17	2	19	1	0	1	18	2	20
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (a)	5	77	20	97	5	6	11	82	26	108
b) Fruits	J	- ' '	20	91	3	0	1.1	02	20	100
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total ( c)										
d) Plantation crops										
Production and Management technology		ļ								<u> </u>
Processing and value addition			ļ							
Others (pl specify)		<u> </u>	1	<u> </u>	<u> </u>					1
Total (d)		<del>                                     </del>		<del>                                     </del>	<del>                                     </del>					1
e) Tuber crops  Production and Management technology		-								<del>                                     </del>
Production and Management technology  Processing and value addition		-								<del>                                     </del>
Processing and value addition		<del>                                     </del>		<del>                                     </del>	<del>                                     </del>					<u> </u>
Others (pl specify)  Total €	-	-			-					<del>                                     </del>
f) Spices		-	1	-	-					-
Production and Management technology		<del>                                     </del>	1	<del>                                     </del>	<del>                                     </del>					
Processing and value addition	_	<del>                                     </del>			-					1

	1	1	ı	ı	1	ı	ı	i	ı	51
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)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	2	33	3	36	11	0	11	44	3	47
Production and use of organic inputs	1	21	0	21	1	0	1	22	0	22
Management of Problematic soils	1	21	U	21	- 1	U	I		U	
-										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	3	54	3	57	12	0	12	66	3	69
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management								+		
Disease Management	2	40	4	44	1	6	7	41	10	51
Feed & fodder technology		38	7	45		3	3			
	2	30	/	45	0	3	3	38	10	48
Production of quality animal products										
Others (pl specify)										
Total	4	78	11	89	1	9	10	79	20	99
V Home Science/Women empowerment										
Household food security by kitchen gardening and										
nutrition gardening										
Design and development of low/minimum cost	1	0	14	14	0	2	2	0	16	16
Designing and development for high nutrient	J	0	14	14	U			U	10	16
efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
	4	7	4.4		0	_		7		
Processing and cooking	1	7	11	18	0	2	2		13	20
Gender mainstreaming through SHGs	1	2	9	11	0	9	9	2	18	20
Storage loss minimization techniques	2	18	15	33	3	4	7	21	19	40
Value addition	1	0	13	13	0	3	3	0	16	16
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies	1	0	19	19	0	1	1	0	20	20
Rural Crafts	1	0	24	24	0	1	1	0	25	25
Women and child care				0			0	0	0	0
Others (pl specify)	1	0	11	11	0	12	12	0	23	23
Total	9	27	116	143	3	34	37	30	150	180
VI Agril. Engineering						<u> </u>	<u> </u>			
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 Dlant Ductaction										
VII Plant Protection										
Integrated Pest Management Integrated Disease Management	3	53 14	10 3	63 17	3	0 5	3 5	56 14	10 8	66 22

Bio-control of pests and diseases				0	[		0	0	0	52 0
Production of bio control agents and bio									·	
pesticides				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	4	67	13	80	3	5	8	70	18	88
VIII Fisheries	•	<u> </u>								
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	- 4									
Formation and Management of SHGs	1	20	0	20	0	0	0	20	0	20
Mobilization of social capital	1	17	1	18	2	0	2	19	1	20
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues	1	21	0	21	2	0	2	23	0	23
Others (pl specify)	1	11	9	20	1	6	7	12	15	27
Total	4	69	10	79	5	6	11	74	16	90
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										· · · · · · · · · · · · · · · · · · ·
Others (pl specify)										
Total										
GRAND TOTAL	34	501	183	684	30	60	90	531	243	774

### Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of				I	Participant	S			
	courses	Others				SC/ST			Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	0	0	0	0		0	0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming				0			0	0	0	0

lander and the second	İ	1 .		۱ ۵	İ i	Ì				53
Micro Irrigation/irrigation	<u> </u>			0			0	0	0	0
Seed production	<u> </u>			0			0	0	0	0
Nursery management	<u> </u>			0			0	0	0	0
Integrated Crop Management	<u> </u>			0			0	0	0	0
Soil & water conservatioin	1	18	2	20			0	18	2	20
Integrated nutrient management	1	15	0	15	0	0	0	15	0	15
Production of organic inputs	<u> </u>			0			0	0	0	0
Others (pl specify)	2	37	6	43	0	0	0	37	6	43
Total	4	70	8	78	0	0	0	70	8	78
II Horticulture										
a) Vegetable Crops	<u> </u>				_					
Production of low value and high valume crops	1	19	0	19	2	0	2	21	0	21
Off-season vegetables	1	17	5	22	0	0	0	17	5	22
Nursery raising	1	14	6	20	0	0	0	14	6	20
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (a)	3	50	11	61	2	0	2	52	11	63
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	3	41	10	51	5	8	13	46	18	64
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (b)	3	41	10	51	5	8	13	46	18	64
c) Ornamental Plants										
Nursery Management										
Management of potted plants	<u> </u>									
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants	<u> </u>									
Others (pl specify)										
Total ( c) d) Plantation crops										
Production and Management technology	-									
Processing and value addition										
Others (pl specify)	+									
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total €	<u> </u>									-
f) Spices	+	<del>                                     </del>							1	
Production and Management technology Processing and value addition	<del> </del>									
Others (pl specify)		<del>                                     </del>								-
Total (f)	+									
g) Medicinal and Aromatic Plants	+									<u> </u>
Nursery management	†									
Production and management technology										1
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)	6	91	21	112	7	8	15	98	29	127
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management	1									
	_		-		_	,	_	~~	-	
Integrated Nutrient Management Production and use of organic inputs	3	58 19	5	63	0	0	0	60 19	6	66

	i	ı	i	í	1	i	i i	i i	i	54
Management of Problematic soils										
Micro nutrient deficiency in crops  Nutrient Use Efficiency					-					
Balance use of fertilizers	1	20	0	20	0	0	0	20	0	20
Soil and Water Testing	3	62	2	64	2	0	2	64	2	66
Others (pl specify)	3	02		04		0		01		- 00
Total	8	159	10	169	4	1	5	163	11	174
IV Livestock Production and Management										
Dairy Management	2	23	19	42	0	1	1	23	20	43
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	2	24	12	36	0	2	2	24	14	38
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total	4	47	31	78	0	3	3	47	34	81
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	1	0	15	15	0	6	6	0	21	21
Storage loss minimization techniques	1	0	15	15	0	6	ь	0	21	21
Value addition	4		20	22	0	0	0	2	20	22
	1	2	20	22	0	0	0	2	20	22
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts Women and child care			40	00	0	0	0	4	40	
	1	1	19	20	0	0	0	1	19	20
Others (pl specify)	•		<b>5</b> 4	0	•	•	0	0	0	0
Total	3	3	54	57	0	6	6	3	60	63
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										
Integrated Pest Management  Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio										
pesticides										
Others (pl specify)										
Total						-			-	
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management								i		
Carp fry and fingerling rearing										
Carp fry and fingerling rearing Composite fish culture										
Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater										
Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater prawn										
Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater										

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	1	20	1	21	0	0	0	20	1	21
Group dynamics	1	10	3	13	0	0	0	10	3	13
Formation and Management of SHGs	1	0	0	0	4	17	21	4	17	21
Mobilization of social capital	3	50	2	52	10	1	11	60	3	63
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)	1	0	0	0	14	8	22	14	8	22
Total	7	80	6	86	28	26	54	108	32	140
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	32	450	130	580	39	44	83	489	174	663

 $Farmers'\ Training\ including\ sponsored\ training\ programmes-CONSOLIDATED\ (On+Off\ campus)$ 

Thematic area	No. of	Participants								
	courses		Others			SC/ST		(	Frand Tota	ıl
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	1	28	3	31	1	0	1	29	3	32
Crop Diversification	1	21	6	27	0	0	0	21	6	27
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	0	0	0	0	0	0	0	0	0	0
Soil & water conservatioin	1	18	2	20	0	0	0	18	2	20
Integrated nutrient management	4	95	1	96	0	0	0	95	1	96
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	2	37	6	43	0	0	0	37	6	43
Total	9	199	18	217	1	0	1	200	18	218
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	5	79	18	97	6	6	12	85	24	109
Off-season vegetables	1	17	5	22	0	0	0	17	5	22

Nursery raising	0 0 0 0 0 0 6 8	1 0 0 0 0 13 13	32 0 0 0 0 134 46	8 0 0 0 0 37 18	40 0 0 0 0 171 64
Export potential vegetables	0 0 0 0 6	0 0 0 13 13	0 0 0 0 134 46	0 0 0 37	0 0 0 171 64
Grading and standardization	0 0 0 6	0 0 13 13	0 0 134 46	0 0 37 18	0 0 171 64
Protective cultivation 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 6	13	0 0 134 46	0 0 37 18	0 0 171 64
Others (pl specify)         0         0         0         0           Total (a)         8         127         31         158         7           b) Fruits         Training and Pruning	8	13	46	18	64
Total (a) 8 127 31 158 7  b) Fruits	8	13	134	18	64
b) Fruits Training and Pruning Layout and Management of Orchards Cultivation of Fruit 3 41 10 51 5 Management of young plants/orchards Rejuvenation of old orchards Export potential fruits Micro irrigation systems of orchards Plant propagation techniques Others (pl specify) Total (b) 3 41 10 51 5 Cornamental Plants Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c) 0 10 10 10 10 10 10 10 10 10 10 10 10 1	8	13	46	18	64
Training and Pruning Layout and Management of Orchards  Cultivation of Fruit 3 41 10 51 5  Management of young plants/orchards  Rejuvenation of old orchards  Export potential fruits  Micro irrigation systems of orchards  Plant propagation techniques  Others (pl specify)  Total (b) 3 41 10 51 5  c) Ornamental Plants  Nursery Management  Management of potted plants  Export potential of ornamental Plants  Propagation techniques of Ornamental Plants  Others (pl specify)  Total (c)  d) Plantation crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total (d)  e) Tuber crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total €  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  Protat (f)  g) Medicinal and Aromatic Plants  Nursery management  Production and management Plants  Nursery management  Production and management Plants  Nursery management  Production and management Plants  Nursery management  Production and management Plants  Nursery management  Production and management technology  Post harvest technology 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)					
Layout and Management of Orchards Cultivation of Fruit 3 41 10 51 5  Management of young plants/orchards Rejuvenation of old orchards Export potential fruits Micro irrigation systems of orchards Plant propagation techniques Others (pl specify) Total (b) 3 41 10 51 5 c) Ornamental Plants Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c) d) Plantation crops Production and Management technology Processing and value addition Others (pl specify) Total (d) e) Tutal (d) e) Tutal € f) Spices Production and Management technology Processing and value addition Others (pl specify) Total € f) Spices Production and Management technology Processing and value addition Others (pl specify) Total € 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 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)					
Cultivation of Fruit  Management of young plants/orchards  Rejuvenation of old orchards  Export potential fruits  Micro irrigation systems of orchards  Plant propagation techniques  Others (pl specify)  Total (b)  3 41 10 51 5  c) Ornamental Plants  Nursery Management  Management of potted plants  Export potential of omamental plants  Propagation techniques of Ornamental Plants  Others (pl specify)  Total ( c)  d) Plantation crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total (d)  e) Tuber crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total ( c)  f) Spices  Production and Management technology  Processing and value addition  Others (pl specify)  Total ( c)  f) Spices  Production and Management technology  Processing and value addition  Others (pl specify)  Total ( c)  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)					
Management of young plants/orchards Rejuvenation of old orchards Export potential fruits Micro irrigation systems of orchards Plant propagation techniques Others (pl specify)  Total (b)					
Rejuvenation of old orchards Export potential fruits Micro irrigation systems of orchards Plant propagation techniques Others (pl specify)  Total (b) 3 41 10 51 5 c) Ornamental Plants Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify)  Total ( c) d) Plantation crops Production and Management technology Processing and value addition Others (pl specify)  Total (d) e) Tuber crops Production and Management technology Processing and value addition Others (pl specify)  Total € f) Spices Production and Management technology Processing and value addition Others (pl specify)  Total € 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) Post harvest technology and value addition Others (pl specify)  Total (g) Fost harvest technology and value addition Others (pl specify)  Total (g) GT (a-g)	8	13	46	18	64
Export potential fruits  Micro irrigation systems of orchards  Plant propagation techniques  Others (pl specify)  Total (b) 3 41 10 51 5  C) Ornamental Plants  Nursery Management  Management of potted plants  Export potential of ornamental plants  Propagation techniques of Ornamental Plants  Others (pl specify)  Total ( c)  d) Plantation crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total (d)  e) Tuber crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total €  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 karvest technology and value addition  Others (pl specify)  Total (g)  Post harvest technology and value addition  Others (pl specify)  Total (g)  GT (a-g)	8	13	46	18	64
Micro irrigation systems of orchards Plant propagation techniques Others (pl specify)  Total (b) 3 41 10 51 5 c) Ornamental Plants Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify)  Total ( c) d) Plantation crops Production and Management technology Processing and value addition Others (pl specify)  Total (d) e) Tuber crops Production and Management technology Processing and value addition Others (pl specify)  Total € f) Spices Production and Management technology Processing and value addition Others (pl specify)  Total (c) f) Spices Production and Management technology Processing and value addition Others (pl specify)  Total (c) 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)	8	13	46	18	64
Plant propagation techniques Others (pl specify)  Total (b) 3 41 10 51 5 c) Ornamental Plants Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify)  Total ( c) 4 d) Plantation crops Production and Management technology Processing and value addition Others (pl specify)  Total (d) 6 e) Tuber crops Production and Management technology Processing and value addition Others (pl specify)  Total (b) 7 Total (c) 7 Total	8	13	46	18	64
Others (pl specify)  Total (b)  3 41 10 51 5 c) Ornamental Plants  Nursery Management  Management of potted plants  Export potential of ornamental plants  Propagation techniques of Ornamental Plants  Others (pl specify)  Total ( c) d) Plantation crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total (d) e) Tuber crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total E f) Spices  Production and Management technology  Processing and value addition  Others (pl specify)  Total 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)	8	13	46	18	64
Total (b) 3 41 10 51 5 c) Ornamental Plants Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify)  Total (c) d) Plantation crops Production and Management technology Processing and value addition Others (pl specify)  Total (d) e) Tuber crops Production and Management technology Processing and value addition Others (pl specify)  Total (d) f) Specify  Total (c)  f) Spices Production and Management technology Processing and value addition Others (pl specify)  Total € 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 (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)	8	13	46	18	64
c) Ornamental Plants Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c) d) Plantation crops Production and Management technology Processing and value addition Others (pl specify) Total (d) e) Tuber crops Production and Management technology Processing and value addition Others (pl specify) Total (d)  e) Tuber crops Production and Management technology Processing and value addition Others (pl specify) Total € f) Spices Froduction 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 (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)	8	13	46	18	64
Nursery Management  Management of potted plants  Export potential of ornamental plants  Propagation techniques of Ornamental Plants  Others (pl specify)  Total (c)  d) Plantation crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total (d)  e) Tuber crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total €  f) Spices  Production and Management technology  Processing and value addition  Others (pl specify)  Total €  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)  Total (g)  GT (a-g)					
Management of potted plants  Export potential of ornamental plants  Propagation techniques of Ornamental Plants  Others (pl specify)  Total (c)  d) Plantation crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total (d)  e) Tuber crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total €  f) Spices  Production and Management technology  Processing and value addition  Others (pl specify)  Total €  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)  Total (g)  GT (a-g)					
Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify)  Total ( c)  d) Plantation crops Production and Management technology Processing and value addition Others (pl specify)  Total (d) e) Tuber crops Production and Management technology Processing and value addition Others (pl specify)  Total € f) Spices Production and Management technology Processing and value addition Others (pl specify)  Total € 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)					
Propagation techniques of Ornamental Plants Others (pl specify)  Total ( c) d) Plantation crops Production and Management technology Processing and value addition Others (pl specify)  Total (d) e) Tuber crops Production and Management technology Processing and value addition Others (pl specify)  Total € f) Spices Production and Management technology Processing and value addition Others (pl specify)  Total € 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)					
Others (pl specify)  Total ( c)  d) Plantation crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total (d)  e) Tuber crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total €  f) Spices  Production and Management technology  Processing and value addition  Others (pl specify)  Total €  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)					
Total ( c) d) Plantation crops Production and Management technology Processing and value addition Others (pl specify) Total (d) e) Tuber crops Production and Management technology Processing and value addition Others (pl specify) Total € f) Spices Production and Management technology Processing and value addition Others (pl specify) Total € 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)					
d) Plantation crops Production and Management technology Processing and value addition Others (pl specify)  Total (d) e) Tuber crops Production and Management technology Processing and value addition Others (pl specify)  Total € 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)					
Production and Management technology Processing and value addition Others (pl specify)  Total (d) e) Tuber crops Production and Management technology Processing and value addition Others (pl specify)  Total € 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) For (a-g)					
Processing and value addition Others (pl specify)  Total (d) e) Tuber crops Production and Management technology Processing and value addition Others (pl specify)  Total € 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) For (a-g)					
Others (pl specify)         Total (d)         e) Tuber crops         Production and Management technology         Processing and value addition         Others (pl specify)         Total €         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)					
e) Tuber crops  Production and Management technology  Processing and value addition  Others (pl specify)  Total €  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)				Ì	
Production and Management technology Processing and value addition Others (pl specify)  Total € 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)					
Processing and value addition Others (pl specify)  Total € 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)					
Others (pl specify)  Total €  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)					
Total €  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)					
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)					
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)					
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)					
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)					
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)					
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)					
Nursery management Production and management technology Post harvest technology and value addition Others (pl specify) Total (g) GT (a-g)					
Production and management technology Post harvest technology and value addition Others (pl specify)  Total (g) GT (a-g)					
Others (pl specify) Total (g) GT (a-g)					
Total (g) GT (a-g)					
GT (a-g)					
III Soil Health and Fertility Management					
Soil fertility management					
Integrated water management     91       Integrated Nutrient Management     5     91     8     99     13	1	14	104	9	113
Production and use of organic inputs 2 40 3 43 1	0	14	41	3	44
Management of Problematic soils	U	1	+1	3	74
Micro nutrient deficiency in crops		1			
Nutrient Use Efficiency					
Balance use of fertilizers 1 20 0 20 0	0	0	20	0	20
Soil and Water Testing 3 62 2 64 2	0	2	64	2	66
Others (pl specify)					
Total 11 213 13 226 16	1	17	229	14	243
IV Livestock Production and Management					
Dairy Management         2         23         19         42         0		1	23	20	43
Poultry Management	1				
Piggery Management					
Rabbit Management			-		
Animal Nutrition Management					

	ı					•				57
Disease Management	4	64	16	80	1	8	9	65	24	89
Feed & fodder technology	2	38	7	45	0	3	3	38	10	48
Production of quality animal products										
Others (pl specify)  Total		40E	40	467	4	40	42	400	E 4	400
	8	125	42	167	1	12	13	126	54	180
V Home Science/Women empowerment Household food security by kitchen gardening										
and nutrition gardening										
Design and development of low/minimum cost										
diet	1	0	14	14	0	2	2	0	16	16
Designing and development for high nutrient										
efficiency diet										
Minimization of nutrient loss in processing		-	44	40	-	0	0	-	40	
Processing and cooking	1	7	11	18	0	2	2	7	13	20
Gender mainstreaming through SHGs	2	2	24	26	0	15	15	2	39	41
Storage loss minimization techniques	2	18	15	33	3	4	7	21	19	40
Value addition	2	2	33	35	0	3	3	2	36	38
Women empowerment										
Location specific drudgery reduction technologies	1	0	19	19	0	1	1	0	20	20
Rural Crafts	1	0	24	24	0	1	1	0	25	25
Women and child care	1	1	19	20	0	0	0	1	19	20
Others (pl specify)	1	0	11	11	0	12	12	0	23	23
Total	12	30	170	200	3	40	43	33	210	243
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)						Ì				
Total										
VII Plant Protection										
Integrated Pest Management	3	53	10	63	3	0	3	56	10	66
Integrated Disease Management	1	14	3	17	0	5	5	14	8	22
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	4	67	13	80	3	5	8	70	18	88
VIII Fisheries		07	13	00	3	3	•	70	10	00
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater										
Preeding 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  IV Production of Impute et cite										
IX Production of Inputs at site Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
								-		

GRAND TOTAL	66	951	313	1264	69	104	173	1020	417	1437
Total										
Others (pl specify)										
Integrated Farming Systems										
Nursery management										
Production technologies										
XI Agro-forestry							•			
Total	11	149	16	165	33	32	65	182	48	230
Others (pl specify)	2	11	9	20	15	14	29	26	23	49
WTO and IPR issues	1	21	0	21	2	0	2	23	0	23
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	4	67	3	70	12	1	13	79	4	83
Formation and Management of SHGs	2	20	0	20	4	17	21	24	17	41
Group dynamics	1	10	3	13	0	0	0	10	3	13
Leadership development	1	20	1	21	0	0	0	20	1	21
X Capacity Building and Group Dynamics				2.				0.5		
Total										
Others (pl specify)										<u> </u>
Apiculture										
Mushroom Production										
Production of Fish feed										
Production of livestock feed and fodder			-			-	•			
Small tools and implements										
Production of Bee-colonies and wax sheets										
Production of fry and fingerlings										
Organic manures production										
Vermi-compost production										- 38 

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

	No. of				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										
Horticulture crops										
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	1	10	0		1	0	1	11	0	11
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										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture	† †									
Shrimp farming										
Pearl culture	+									
1 Carr Curture				1	1					1

Cold water fisheries									
Fish harvest and processing									
technology									
Fry and fingerling rearing									
Any other (pl.specify)									
TOTAL	1	10	0	1	0	1	11	0	11

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

	No. of		ı	Coord Total						
Area of training	Courses	Male	General Female	Total	Male	SC/ST Female	Total	Male	Grand Total Female	Total
Nursery Management of		Maie	remate	Total	Maic	remate	Total	Maic	remate	Total
Horticulture crops										
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										
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	1	10	0	10	1	0	1	11	0	11

# $Training \ for \ Rural \ Youths \ including \ sponsored \ training \ programmes - CONSOLIDATED \ (On + Off \ campus)$

	No. of				No. of	Participants	}			
Area of training	Courses		General			SC/ST			Grand Total	
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of										
Horticulture crops										1
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	1	10	0	10	1	0	11	11	0	11
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										
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	1	10	0	10	1	0	11	11	0	11

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

	No. of				No.	of Particip	oants			
Area of training	Courses		General			SC/ST		(	Grand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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	1	0	15	15	0	0	0	0	15	15
Any other (pl.specify)	0			0			0	0	0	0
TOTAL	1	0	15	15	0	0	0	0	15	15

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

	No. of				No.	of Particip	oants			
Area of training	Course		General			SC/ST		(	Frand Tota	al
	s	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota
		e	e	l	e	e	l	e	e	l
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					

# $\label{thm:constraint} \textbf{Training programmes-CONSOLIDATED} \ (\textbf{On} + \textbf{Off campus})$

					No.	of Particip	oants			
Area of training	No. of Courses	General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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	1	0	15	15	0	0	0	0	15	15
Any other (pl.specify)	0			0			0	0	0	0
TOTAL	1	0	15	15	0	0	0	0	15	15

# **Table. Sponsored training programmes**

	No. of Courses	ourses No. of Participants									
Area of training		General				SC/ST			Grand Tota	al	
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
Crop production and management											
Increasing production and productivity of crops	1	140	12	152	4	2	6	144	14	158	
Commercial production of vegetables											
Production and value addition											
Fruit Plants											
Ornamental plants											
Spices crops											
Soil health and fertility management	1	40	14	54	3	0	3	43	14	57	
Production of Inputs at site											
Methods of protective cultivation											
Others (pl. specify)											
Total	2	180	26	206	7	2	9	187	28	215	
Post harvest technology and value addition											
Processing and value addition	1	13	3	16	0	0	0	13	3	16	
Others (pl. specify)											
Total	1	13	3	16	0	0	0	13	3	16	
Farm machinery											
Farm machinery, tools and implements											
Others (pl. specify)											
Total											
Livestock and fisheries											
Livestock production and management				_							

Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity Building and Group Dynamics										
Others (pl. specify)										
Total										
GRAND TOTAL	3	193	29	222	7	2	9	200	31	231

# Name of sponsoring agencies involved

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

Details of vocational trai	No. of	8				Participant				
Area of training	Courses		General		SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value										
addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-										
pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm										
machinery										
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery,										
dying etc.										
Agril. Para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group										1
dynamics										
Others (pl. specify)										
Total										
Grand Total										

# IX. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	1042	2580	1070	3650
Diagnostic visits	68	256	132	388
Field Day	4	104	6	110
Group discussions	3	45	7	52
Kisan Ghosthi	21	5600	125	5725
Film Show	5	135	4	139
Self –help groups	15	173	23	196
Kisan Mela	3	8070	75	8145
Exhibition	3	2500	12	2512
Scientists' visit to farmers field	432	1764	225	1989
Plant/animal health camps	2	175	13	188
Farm Science Club				0
Ex-trainees Sammelan				0
Farmers' seminar/workshop				0
Method Demonstrations	23	457	49	506
Celebration of important days	6	125	33	158
Special day celebration	5	236	41	277
Exposure visits	4	102	34	136
Others (pl. specify)				0
Total	1636	22322	1849	24171

**Details of other extension programmes** 

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	9
News paper coverage	96
Popular articles	34
Radio Talks	12
TV Talks	30
Animal health amps (Number of animals treated)	2
Others (pl. specify)	
Total	34

	Message Type	Type of Messages									
Name of KVK		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total			
	Text only	436	74	12	5	32	341	25			
	Voice only	2500	18	11	6	8	17	20			
***************************************	Voice & Text both	,						<u> </u>			
	<b>Total Messages</b>	2936	92	23	11	40	358	45			
	<b>Total farmers Benefitted</b>										

# V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs 65rganized Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies			
	Lectures organised			
	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 seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Wheat	HD 2967, DBW 187, 107	V	205		
	Paddy	NDR 2065, Sambha Sub 1		218		
	Barley			2.7		
Total						
Oilseeds	Mustard	RH 749, Giriraj, pitambari		6.5		
Total						
Pulses	chickpea	GNG 1581		1.05		
Total						
Commercial crops						
Total						
Vegetables						
Total						
Flower crops						
Total						
Spices						
Total						
Fodder crop seeds						
Total						
Fiber crops						
Total						

Forest Species			
Total			
Others			
Total			
Grand Total		433.25	

### 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						
Total						
Vegetable seedlings	Brinjal	pant rituraj		1700	680	7
	Chilli	Azad Mirch 1		1000	400	6
Total	Tomato	T6		1250	500	5
Fruits	Onion	Agrifound Light Red		16000	400	7
	Cauliflower	Pant subra		1405	562	6
Total						
Ornamental plants						
_						
Total						
Medicinal and Aromatic						
Total						
Plantation						
Total						
Spices						
Total						
Tuber						
Total						
Fodder crop saplings						
1 1 5						
Total						
Forest Species						
*						
Total						
Others						
Total						
Grand Total				21355	2542	31

#### **Production of Bio-Products**

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

#### **Table: Production of livestock materials**

	Name of the breed	Number	Value (Rs.)	No. of Farmers
Particulars of Live stock			, , ,	
Dairy animals				
Cows	3			
Buffaloes	3			
Calves	3			
Others (Pl. specify)	)			
Tota				
Poultry				
Broilers	3			
Layers	3			
Duals (broiler and layer)				
Japanese Quai	1			
Turkey	7			
Emu	ı			
Ducks	3			
Others (Pl. specify)	)			
Tota				
Piggery				
Pigle	t			
Others (Pl.specify)				
Tota				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Tota				
Grand Total	l			

# VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	29	348	16	
Water				
Plant	215	450	20	
Manure				
Others (pl.specify)				
Total				

# VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted	Date of SAC

### IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution
Mahayogi gorakhnath krishi darpan (Magzine)	1000
Arhar Utpadan Praudyogiki	1000
Sarson Utpadan Praudyogiki	1000
Channa Utpadan Praudyogiki	1000
KVK ek najar men	200

# X. PUBLICATIONS

Category	Number
Research Paper	05
Technical bulletins	04
Technical reports	20
Popular Articles	32
News letters	1
Books	0
Others (pl. specify)	39
Total	101

# 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 Visit by officials						
	(No.) (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 technologies

— 6			
Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers	
Total			

Awareness campaign

	Meetings		Gosthies		Field d	ays	Farmers fa	air	Exhibition		Film sl	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

						, 0
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, Peppegani, 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 °C. This makes agriculture the most important profession of people. One day a progressive farmer Shri Baburam Yadav S/O shri Ramdhani Yaday, village Baijnathpur, Post: Netwalbazar block: campierganj, 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.

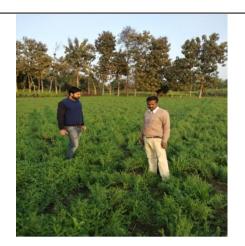
**Plan, Implement and Support:-** MGKVK Gorakhpur tries to make them aware regarding scientific cultivation of Chickpea. That starts from land preparation to harvesting. This KVK has encouraged the farmer for soil testing and on the basis of that farmer was advised for balanced dose of chemical fertilizer 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.





A farmers with KVK's scientist

Field Day of Chickpea GNG 1581



Chickpea Crop GNG 1581

#### XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE

#### A. Details on ATICs

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

### **B.** Details on Farmer's visit

S. No	Purpose of visit	Number of farmer's visited
01	Technology Information	

		, -
02	Technology Products	
03	Others if any pl. specify	

C. Facilities in the ATIC which are in operation

S. No	Particulars	Availability (Please $\sqrt{\text{mark}}$ )	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

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

# **D.2.** Publications (Print & Electronic media)

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

# E. Technology Products provided

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

# F. Technology services provided

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

#### XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION

#### **States covered:**

#### **Number of Directorates of Extension:**

#### A. Details on Directors of Extension

S. No		Name of the Director of Extension	Number of KVKs for which technological backstopping is provided					
	5126		SAU/CAU	DU	ICAR	NGO	SDA	Others (pl. specify)

#### B. Workshops / meetings organized

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

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

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

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

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

#### F. Technological Products provided to KVKs

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

# XVI. Awards and recognition

- 1. Global extension excellence award by GBS Saharanpur in International conference at Kuala Lumpur, Malaysia.
- 2. Recognition co-chaired in the technical ssession-I in International conference at Kuala Lumpur, Malaysia.
- **3.** Recognition as "Technical Advisor" for Krishak Chetana Patrika- Ek Sampoorn Krishi Patrika, Jabalpur, M.P.

