# **KRISHI VIGYAN KENDRA DATAGANJ (BADAUN-II)**





# **PROGRESS REPORT**

# (JANUARY TO DECEMBER, 2020)

**Directorate of Extension** 

Sardar Vallabhbhai Patel Univ. of Agri. & Tech.,

Meerut - 250110

## PROFORMA FOR PREPARATION OF ANNUAL REPORT (Jan to December 2020)

#### **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	41	814	06	820
Rural youths	05	50	00	50
Extension functionaries	11	110	00	110
Sponsored Training	-	-	-	-
Vocational Training	-	-	-	-
Total	57	1074	06	1080

#### 2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds			
Pulses			
Cereals	30	12.00	-
Vegetables			
Other crops	10	4.00	
Hybrid crops			
Total	40	16.00	
Livestock & Fisheries	-	-	-
Other enterprises	-	-	-
Total	-	-	-
Grand Total	40	16.00	_

#### 3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	04	20	20
Livestock			
Various enterprises			
Total	04	20	20
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	04	20	20

#### 4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	150	1506

Other extension activities	06	208
Total	156	1714

#### 5. Mobile Advisory Services

Name of KVK		Type of Messages						
	Message Type	Crop	Livestock	Weather	Marke- ting	Aware -ness	Other enterprise	Total
	Text only	42	-	06	02	32	02	84
	Voice only							
	Voice & Text both							
	Total Messages	42	-	06	02	32	02	84
	Total farmers Benefitted	1890	-	270	90	1440	90	3780

#### 6. Seed & Planting Material Production

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

### 7. Soil, water & plant Analysis

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

#### 8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	
2	Conferences	
3	Meetings	04
4	Trainings for KVK officials	02
5	Visits of KVK officials	04
6	Book published	
7	Training Manual	
8	Book chapters	
9	Research papers	
10	Lead papers	
11	Seminar papers	
12	Extension folder	10
13	Proceedings	01
14	Award & recognition	
15	On going research projects	

#### **DETAIL REPORT OF APR-2020**

## **1. GENERAL INFORMATION ABOUT THE KVK**

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

Address	Telephone		E mail
Krishi Vigyan	Office	FAX	Kvkbadaun2@gmail.com
Kendra Dataganj	-	-	
Badaun-II Pin-			
243635			

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

Address	Telephone		E mail
	Office	FAX	
Sadar Vallabhbhai	0121-	0211-	Deesvpuat2014@gmail.com
Patel University of	2888511	2888540	
Agri & Tech.,			
Meerut-			
250110(U.P.)			

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

Name	Telephone / Contact				
	Residence Mobile Email				
Dr.A.V.Singh		8630427264	Kvkbadaun2@gmail.com		

1.4. Year of sanction: March 2018

1.5. Staff Position (as on 31<sup>st</sup> December, 2020)

nctioned post	Name of the incumbent	Design- ation	Subject	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Perman-ent /Temp- orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Ag
ogramme ordinator	Dr.A.V.Singh	Professor	Plant Pathology	37400- 67000	192210	21.11.1987	Permanent	Other	8630427264	59
oject Matter ecialist	Dr.Narendra Prasad	Professor	Agril.Extension	37400- 67000	185830	10.07.1996	Permanent	OBC	9450416956	53
oject Matter ecialist	Dr.Phool Chand	S.M.S	Soil Science	15600- 39100	89800	02.09.2008	Permanent	OBC	7669538037	55
oject Matter ecialist										
oject Matter ecialist										
oject Matter ecialist										
oject Matter ecialist										
ogramme sistant										
mputer ogrammer										
m Manager										
countant / perintendent										
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## 1.6. Total land with KVK (in ha) :12.15 ha.

S. No.	Item	Area (ha)
1	Under Buildings	Nil
2.	Under Demonstration Units	Nil
3.	Under Crops	Nil
4.	Orchard/Agro-forestry	Nil
5.	Others (specify)	Nil
6.	total	12.15

## 1.7. Infrastructural Development:

A)	Buildings

Sl.	Name of Source			Stage					
	building	of		Complete			Incomp	lete	
		funding	Completion	Plinth	Expenditure	Starting	Plinth	Status of	
			date	area	(lac)	date	area	construction	
				(sq.m)			(sq.m)		
1.	Administrative	ICAR	Nil	Nil	Nil	Nil	Nil	Under	
	building							construction	
2.	Farmers	ICAR	Nil	Nil	Nil	Nil	Nil	Nil	
	Hostel								
3.	Staff Quarters	ICAR	Nil	Nil	Nil	Nil	Nil	Nil	
4.	Demo. unit.	ICAR	Nil	Nil	Nil	Nil	Nil	Nil	
5.	Fencing	ICAR	Nil	Nil	Nil	Nil	Nil	Nil	
6.	Rain water	ICAR	Nil	Nil	Nil	Nil	Nil	Nil	
	harvesting								
	system								
7.	Threshing	ICAR	Nil	Nil	Nil	Nil	Nil	Nil	
	floor								
8.	Farm godown	ICAR	Nil	Nil	Nil	Nil	Nil	Nil	

# A) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Vehicle No. /Total kms. Run	Present status
Jeep	Nil	Nil	Nil	Nil
Motorcycle	Nil	Nil	Nil	Nil
Cycle	Nil	Nil	Nil	Nil

## C) Equipments&Audio Visual Aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status
Computer Hub system	Nil	Nil	Nil
Computer	Nil	Nil	Nil
Computer Printer	Nil	Nil	Nil
Computer Printer	Nil	Nil	Nil
Projector	Nil	Nil	Nil
Soil testing lab. equipment	Nil	Nil	Nil
Colour television & DVD player	Nil	Nil	Nil
LCD	Nil	Nil	Nil
Digital Camera	Nil	Nil	Nil
Laptop	Nil	Nil	Nil

## **1.8.** A). Details of SAC meetings to be conducted in the year

Sl.No.	Date
1. Scientific Advisory Committee	09/11/2020

## 1. DETAILS OF DISTRICT

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

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

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

## a) Soil Type

S. No	Agro ecological situation	Characteristics
1.	AES-I	It represents the Mid Western Plain Zone of the district having light soil with medium fertility, medium rainfall and most suited for paddy, wheat, potato, sugarcane, Bajra as well as guava cultivation. Out of 8development blocks of Badaun district. It covers four blocks viz. Dataganj, Samrer, Meon and Usawan
2.	AES-II	It represents the Mid Western Plain Zone of the district with loamy soil having medium fertility, medium rain fall, suited for all type of crops viz. wheat, sugarcane, paddy, Bajra as well as vegetable crops due to proximity to the city. It covers five blocks viz. Jagat, Qadarchowk, Salarpur and Wajirganj.

## b) Topography

	Agro ecological situation	Characteristics
1	AES-I	It represents the Mid Western Plain Zone of the district having light soil with medium fertility, medium rainfall and most suited for paddy, wheat, potato, sugarcane, Bajra as well as guava cultivation. Out of 8 development blocks of Badaun district. It covers four blocks viz. Dataganj, Samrer, Meon and Usawan
2	AES-II	It represents the Mid Western Plain Zone of the district with loamy soil having medium fertility, medium rain fall, suited for all type of crops viz. wheat, sugarcane, paddy, Bajra as well as vegetable crops due to proximity to the city. It covers five blocks viz. Jagat, Qadarchowk, Salarpur and Wajirganj.

## 2.3Soil types

Sl. No	Soil type	Characteristics	Area (ha )
1	Clay Loam	It is more fertile than sandy and sandy loam	-
2	Sandy Soil	Sandy soil is dominated and having low status of NPK.	-
3	Sandy Loams	It is more fertile than sandy soil	-

# 2.8 Priority thrust areas

S.N.	Thrust area
1.	Low organic carbon & available Potassium in soil.
2.	Lack of knowledge about balance nutrition in agricultural crops.
3.	Need of diversification in agriculture.
4.	Lack of elite quality planting material of horticultural crops and lack of Bahar control in guava.
5.	Lack of knowledge about improved varieties and seed production of different crops.
6.	Lack of IPM and IDM in various crops
7.	Lack of management in animal and poultry production.
8.	Lack of improved breeds of animals.
9.	Lack of balance nutrition and good health in animals.

2.9 Intervention/ Pr	ogrammes for th	ne doubling the fa	rmers income –(J	an 2020-Dec. 2020)	De	emonstrat	ions
<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 i any
Intercropping System(Kharif-Rabi- Zaid) -Livestock etc.							
U U		<b>_</b>	<b>_</b>	rotection (Weed, Pest, diseas			
After	Main crop	Inter crop	Equivalent	Cost of	Net income(Rs/ha)	B.C:	Remark if
Interventions	Yield(q/ha)	Yield(q/ha)	yield(q/ha)	cultivation(Rs/ha)*		Ratio	any
Intercropping							
System(Kharif-Rabi-							
Zaid) -Livestock etc.							
		<b>_</b>	<b>_</b>	rotection (Weed, Pest, diseas			
Before	Main crop	Inter crop	Equivalent	Cost of	Net income(Rs/ha)	B.C:	Remark if
Interventions	Yield(q/ha)	Yield(q/ha)	yield(q/ha)	cultivation(Rs/ha)*		Ratio	any
Mono Cropping							
System(Kharif-Rabi-							
Zaid) -Livestock etc.							
<b>D I I I I</b>					\	I	

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## **3. TECHNICAL ACHIEVEMENTS**

OFT <mark>(</mark>	Fechnology Asse	<mark>ssment anc</mark>	I Refinement)	FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)				
1 Number of OFTs Total no. of Trials			2 Area in ha Number of Farmers					
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
04	03	20	15	16.00	16.00	40	40	

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

	Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)						Extension Activities			
3							4			
Num				mber of ticipants		ber of vities	Number of participants			
<b>Clientele</b>	Targets	Achieveme nt	Target s	Achieveme nt	Targets	Achiev ement	Targets	Achiev ement		
Farmers	55	41	1100	814	160	150	1600	1506		
Rural youth	06	05	60	50						
Extn. Functionaries	12	11	120	110						

	Seed Production	(Qtl.)	Planting material (Nos.)				
	5			6			
Target	Target         Achievement         Distributed to no. of farmers		Target	Achievement	Distributed to no. of farmers		

## 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	INM in Paddy	01	05
Varietal Evaluation				
Integrated Pest Management	Paddy	IPM in Paddy	01	05
Integrated Crop Management				
Integrated Disease Management	Potato	IDM in Potato	01	05
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				

			15
Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Post Harvest Technology / Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
Total		03	15

#### 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				
Production and Management				
Others (Pl. specify)				
Total				

#### Summary of technologies assessed under various enterprises by KVKs

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

**Note:** Suppose **IPM in paddy** is the technology assessed by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with 50\*5 = 250 trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

## I.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 **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

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

(The model for preparing the same is furnished below)

#### INTEGRATED CROP MANAGEMENT

Problem definition: Lower income from sugarcane monocrop cultivation

Technology Assessed or Refined (as the case may be): Intercropping of French bean in paired row planted sugarcane

KVK, Shimoga in Karnataka conducted on-farm trial to assess or refine (as the case may be) effect of intercropping on net return in sugarcane. The intercrop system of planting of sugarcane as paired row at 5 ft spacing and growing french bean between two pairs had realized a net return of Rs. 1.87 lakh/ha as compared to the recommended practice with net returns of Rs. 1.41 lakh/ha (32.6% increase in net return per ha).

Table	Performance	French bean a	s inter cro	p in sugarcane
-------	-------------	---------------	-------------	----------------

Technology Option	No.of trials	Yield (t/ha)	Net Returns (Rs. in lakh./ha)
Planting sugarcane at 3 ft row spacing (Farmers Practice)		168	1.56
Paired row planting at 5 ft spacing (Recommended Practice)	10	159	1.41
Paired row planting at 5 ft spacing + growing intercrop between two pairs (french bean)	10	163 (Sugarcane) 0.58 (French bean)	1.87

#### WEED MANAGEMENT

Problem definition: Heavy infestation of weed in cabbage

#### Technology Assessed or Refined (as the case may be): Weed control measures on cabbage yield in Karnataka

KVKs of Haveri, Hassan, Mysore and Mandya of Karnataka took up on-farm trial on chemical weed management in cabbage. The results indicated that the use of Oxyflurofen @ 1 kg. a i/ha gave 43.60 per cent increase in yield over hand weeding.

Table Effect o	f Alachlor and	Oxyflurofen on	weed control and	l yield at cabbage
	/ 11mcnioi unu	Oryjun of the on	weeu comioi um	i jilia ai labbazi

Technology Option	No.of trials	Yield (qt./ha)	Increase in yield (%)	Net Return (Rs./ha)	B:C Ratio
Three times hand weeding		110		42000	2.65
(Farmers Practice)					
Alachlor @ 1.5 Kg. ai/ha as pre-emergent spray	18	150	36.36	76800	6.34
(Recommended Practice)	10				
Oxyflurofen @ 1 Kg ai/ha prior to transplanting		158	43.63	82720	7.38
with 1 inter cultivation and 1 hand weeding.					

#### PEST AND DISEASE MANAGEMENT

Problem definition: Heavy infestation of leaf curl in chilli effecting in a yield loss of 20% and income loss of Rs.10000/ha

#### Technology Assessed or Refined (as the case may be): Leaf Curl Management in Chilli

Chilli is an important commercial crop of Northern Karnataka. However, there is high incidence of leaf curl disease resulting in yield loss. Five KVKs namely Gadag, Haveri, Dharwad, Belgaum and Bagalkot conducted on-farm trial to assess or refine (as the case may be) the control measure. The refined technology of seed treatment with imidacloprid @ 5g/kg seeds + dipping seedlings with imidacloprid @ 0.25ml/lit along with spray with Dicofol @ 2.5 ml/lit reduced the percentage of disease incidence from 23 to 6 and yield was increased by 38.78 per cent.

#### Table Effect of imidacloprid in control of leaf curl in chilli

Technology Option	No.of trials	Incidence of leaf curl (%)	Yield (kg/ha)	% Increase in yield over farmer's practice
Spray of Dimethoale @ 2 ml/lit (Farmers Practice)		23	620	
Spray of Dimethoale @ 1.7 ml/lit + Dicofol 2.5 ml/lit (Recommended Practice)	28	9	780	25.80
Seed treatment with imidacloprid @ 5g/Kg. seeds + dipping seedlings with imidacloprid @ 0.25ml/lit along with spray with Dicofol @ 2.5 ml/lit		6	860	38.78

#### NUTRIENT MANAGEMENT

Problem definition: Lower productivity and profitability in blackgram cultivation due to imbalance application of nutrients

#### Technology Assessed or Refined (as the case may be): Nutrient management in black gram

KVK, Karur in Tamil Nadu conducted on-farm trial to find out appropriate nutrient management practice to enhance the black gram productivity. The assessed or refined (as the case may be) practice of soaking seeds with manganese sulphate @ 8% solution for two hours was found to be better with 59.62 % increase in yield.

#### Table Effect of seed soaking of MnSo<sub>4</sub> in enhancing germination and yield in black gram

Technology Option	No.of trials	Germination (%)	Plant height at flowering stage	Yield (kg./ha)	Increase in Yield (%)	B:C Ratio
No seed treatment and foliar spray (Farmers Practice)		52	32	540		5.64
Foliar spray of DAP @ 2% and NAA @ 40ppm at 30 and 45 DAS (Recommended Practice)	10	62	38	742	37.40	9.42

					17
Seed soaking with $MnSo_4 @ 8\%$ for two hours + recommended practice	78	42	862	59.62	10.27

17

#### **RESOURCE CONSERVATION**

Problem definition: Lower productivity and profitability in tomato cultivation

# Technology Assessed or Refined (as the case may be): Enhancement of tomato yield through precision-farming in Tamil Nadu

The KVKs of Dindigul, Perambalur and Dharmapuri in Tamil Nadu conducted on-farm trial on fertigation in tomato. Combined application of water and fertilizers through drip system had enhanced the tomato yield by 22% in Tamil Nadu with the water saving of 35% alongwith net profit of Rs.25460 per hectare.

#### Table Effect of fertigation on yield and income of tomato

Technology Option	No.of trials	Yield (t/ha)	Net Returns (Rs./ha)	BC Ratio
Irrational fertilizer and water application with out considering stages		15.77	11050	1.5
(Farmers Practice)				
Irrigation at 7 to 10 days interval, FYM @ 25 Tons / ha, Fertilizers @ 150 :	18	18.36	15280	1.7
100 : 50 NPK Kg / ha (Recommended Practice)	10			
Application of water and fertilizer through drip system at critical stages.		22.43	25460	2.0
Fertilizer dose was reduced to three fourth of recommended dose				

#### LIVE STOCK ENTERPRISES

Problem definition: High incidence of mastitis disease in dairy cows resulting in lower productivity and profitability of dairying

Technology Assessed or Refined (as the case may be): Management of mastitis in crossbreed cows in Karnataka

KVK, Gadag conducted trial to find out suitable control measure for mastitis in cross bred cows as the recommended practice could not stop recurrence of mastitis to the desired level. The technology recommended was fine tuned by including dry cow therapy fro the control of mastitis.

#### Table Effect of streptopenicillin in the control of mastitis

Technology Option	No.of trials	Per cent incidence of mastitis
Washing of udder is washed with fresh water and application of turmeric paste after milking		70
(Farmers practice)		
Use of "SAAF" kit (Iodine 0.71 % w/v) after milking. (Recommended practice)	5	60
<i>Recommended practice + Dry cow therapy (Streptopenicillin administration by intra mammary infusion at once for each teat of udder at 7-8 months of pregnancy)</i>	5	Nil

#### INTEGRATED NUTRIENT MANAGEMENT

Problem definition: Lower yield in nendran banana due to imbalance application of nutrients

Technology Assessed or Refined (as the case may be): Integrated Nutrient Management in Banana

KVK, Palakkad assess or refine (as the case may be) the technology of integrated nutrient management by the application of effect of application of Cattle Manure @ 10 kg. /plant, Azospirillum @ 60 gm/plant, urea 315 gm and Potash 500 gm/plant as balanced nutrition in Nendran variety of banana and found that the same had enhanced the yield by 19 per cent compared to farmers practice and 25 per cent saving on nitrogenous fertilizers.

#### Table Performance of banana to integrated nutrient management

Technology Option	No.of trials	Yield t./ha	B:C Ratio
Cowdung @ 10 kg./plant, Plant wood ash @ 5 kg./plant and green leaf manure @ 5 kg./plant	5	22.00	1.37
Cattle Manure @ 10 kg. /plant, Azospirillum @ 60 gm/plant, urea 315 gm and Potash 500 gm/plant.	5	26.25	1.68

## (3.2) OFT of Kharif- 2020 (3.2.1) Result of OFT of Soil Science, crop- Paddy cultivar-Narender-359

Treet.	Yi	eld (q/ł	na)	Cast of	Cast of production(Rs./ha)		Grass	Grass income (Rs./ha)		Net Income (Rs./ha)			B:C Ratio		
	Max	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max	Min.	Ave.	Max	Min.	Ave.
Demo*	43.8	38.8	41.4	28670	26054	27311	76650	68775	72508	49950	40200	45197	2.91	2.45	2.66
Local**	37.8	35.5	36.8	27635	25135	26545	67375	62125	64383	39740	34690	37838	2.52	2.26	2.43
%															
increase			12.6			2.9			12.6			19.5			9.5

\* 2 spray (40 & 55 DAT) of 0.25% ZnSO<sub>4</sub> + 0.25% FeSO4 + 0.20% Boron

\*\* Farmers Practice (ZnSO<sub>4</sub> @ 15 kg/ha

## (3.2.2) Result of OFT of Plant Protection crop- Paddy cultivar-Narender-359

Technology	No. of	Yield (q/ha)	% increase	Effect of	Net profit	B:C Ratio
	Results		in yield	stem borer	(Rs./ha)	
T1 (Local)	01	38.37	-	15-18	60988	2.52
T2	(On 5	47.18	22.18	0-8	79732	2.87
T3	farmers field)	42.20	9.98	10-12	68880	2.66

Treatment 1 : Monocrotophos 36 SL @1 lit/ha

Treatment 2 : Fipronil 0.3 % @ 25 kg/ha

Treatment 3 : Cartap hydrochloride 4G@ 18 kg/ha

## (3.4) FLD of Rabi- 2019 - 20

## (3.4.1) Result of FLD of Soil Science crop- Wheat cultivar-PBW-17

**\*\*** Seed treatment with Azotobacter +PSB

Treet.	Yiel	d (q/ha	)	Cast of	' productio	n(Rs./ha)	Grass income (Rs./ha)			Net 1	Net Income (Rs./ha)			B:C Ratio	
	Max	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max	Min.	Ave.	Max	Min.	Ave.
Demo**	48.2	41.5	45.9	28500	26350	27425	88688	80040	84360	60188	41900	51044	3.25	2.97	3.11
Local*	41.5	38.2	41.5	28050	25550	26800	76360	70288	73324	53040	43338	48189	2.94	2.61	2.78
%															
increase			10.6			2.3			15.1			5.9			11.9

\* Farmers practice (without seed treatment with Azotobacter +PSB)

## **II. FRONTLINE DEMONSTRATION**

a. 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 tech	inology
					No. of villages	No. of farmers	Area in ha

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

b. Details of FLDs implemented during **2020** (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

SI. No.	Crop	The matic area	Tech nolog y Dem onstr	Season and year	Area (ha) Proposed Actual		No	Reasons for shortfall in achievem ent		
			ated				SC/ST	Others	Total	

Details of farming situation

Crop	Season	arming tuation <sup>(</sup> Irrigated)	oil type	Sta	tus of	f soil	ious crop ving date	br	/est date	asonal fall (mm)	of rainy days
	Ō	Fa sit (RF/I	Š	N	Р	К	Prev	Sow	Han	Se raint	N N

Technical Feedback on the demonstrated technologies

S. No		Feed Back				
1						
2						
Farmer	s' reactions on specific t	echnologies				
S. No		Feed Back				
1						
2						
Extensi	ion and Training activitie	s under FLD				
SI.No.	Activity		No. of activities organised	Date	Number of participants	Remarks
1	Field days					
2	Farmers Training					
3	Media coverage					
4	Training for extension functionaries					

#### **Performance of Frontline demonstrations**

#### Frontline demonstrations on oilseed crops

_	Thematic	technology		No. of	Area			eld (q/ha)		% Increase	Ecor	nomics of o (Rs.)		tion	I	Economics (Rs./	s of check /ha)	
Crop	Area	demonstrated	Variety	Farmers	(ha)		Dem	0	Check	in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High	Low	Average	Спеск	-	Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Groundnut							•				1		1					
							•											
																		-
Sesamum																		
																		-
Mustard																		
															•			
							••-		•		•		•					
Taria																		-
Toria																		
Linseed																		
							•		•		1		1					
Sunflower							1											
																		+
Soybean																		
eeyseun																		
		d out based total of				l	ll.				1			1				

\* 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			eld (q/ha)		% Increase	:	omics of c (Rs./	demonstra ′ha)	tion	E	conomics (Rs./	of check ha)	
Сгор	Area	demonstrated	Variety	Farmers	Area (ha)		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)
Pigeonpea																		
Blackgram																		
Greengram																		
Chickpea																		
Fieldpea																		
Lentil																		
Horsegram																		

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

## FLD on Other crops

Category & Crop	Thematic	Name of the	No. of	Area			eld (q/ha)		% Change	Ot Parar	her neters	Econo	omics of o (Rs./	demonstr /ha)	ation	Econ	omics of	check (R	.s./ha)
Crop	Area	technology	Farmers	(ha)	High	Dem Low	o Average	Check	in Yield	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cereals							, incluge												
Paddy																			
Waterlogged Situation																			
Coarse Rice																			
Scented Rice																			
Wheat																			
					1									1					
Wheat Timely sown																			
Wheat Late Sown																			
Mandua																			
Barley																			
Maize																			
Amaranth																			
Millets																			
Jowar																			
															1				<u> </u>

												23
Bajra												
Barnyard millet												
millet												-
Finger millet												
Vegetables												
Vegetables Bottlegourd												
Bittergourd												
<b>.</b>												
Cowpea		 									 	
Chongogourd												
Spongegourd												
5.0												
Petha												
Tomato												
						 					 	-
Frenchbean												
Capsicum												
		 		•	•	 •			 		 	
Chilli												
Brinjal												
Vegetable pea												
<b>J</b>												
Softgourd									 		 	
Congodia												
Okra									 		 	
Colocasia (Arvi)												
	L	 	L			 :	<u>.</u>	. <u>:</u>	 	1	 	 4

									24
									-
Broccoli									
			 		 				-
Cucumber									
Onion									
Coriender									
Lettuce									
Cabbage									
Cauliflower									1
Elephant fruit									
Flower crops Marigold									
Marigold									
Dala									
Bela									
Tuboroco									
Tuberose									4
Oladialus							•		
Gladiolus									
Fruit crops Mango									
Strawberry									
									-
Guava									
									-
Banana			 	 					

													25
D													
Papaya													
Muskmelon					•					 			
Watermelon													
Spices & condiments													
condiments													
Ginger													
Garlic													
Turmeric													
Commercial													
Crops Sugarcane													
Sugarcane										 			
Potato													
Medicinal &													
aromatic													
plants Mentholment						 		 	 	 			
wentholment										 			
Kalmegh													
Ashwagandha													
Fodder Crops													
Sorghum (F)													
Cowpea (F)										 			
Maiza (E)													
Maize (F)													
	.ii	l.	<u>i</u>	i	<u>i</u>	 	L	 i	 	 	i	<u>.</u>	

Lucern										
Berseem										
Oat (F)										

\* 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		% change	Other pa		Econom	ics of dem			E	conomics (Rs	.)	
		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																	
Manada a Cara																	
Vaccination																	

-		 	
	1 1 1		
			1 1 1

\* 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	Major parameters % chan in majo emons Chack parameters			rameter	Econo	mics of der	nonstratio	n (Rs.)	I		s of check s.)	
Calegory	area	demonstrated	Farmer	units	Demons ration	Check	parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps																	
Composite fish culture																	
Feed Manageme nt																	

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

#### FLD on Other enterprises

Category	Name of the technology	No. of Farmer	No.of units	Major par	ameters	% change in major	Other p	arameter	Econom	ics of dem Rs./	onstration unit	(Rs.) or		Economic (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																
Aproducio																
Maize Sheller																

Value Addition									
Vermi Compost									
			•						

#### FLD on Women Empowerment

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

#### FLD on Farm Implements and Machinery

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

#### FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology	No. of Farmer	No. of Units	Yield	(Kg)	% change	Other p	arameters	Ecoi	nomics of c (Rs./		ion	E	Economics (Rs./I		
		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 2020)

Crop technology Hyl			Area			ha)		0/ 1	Econo	mics of dem	onstration (Rs.	./ha)
technology	Hybrid Variety	NO. OI Farmers	Area (ha)		Demo		Chask	% Increase	Gross	Gross	Net Deturn	BCR
ucinolistiateu	Valiety	i unici o	(iiu)	High	Low	Average	Спеск	in yield	Cost	Return	Net Return	(R/C)
					•					•		
											-	
										•		
										•		
					•					•		
										•		
										•		
	•				•	•				•		
		technology       Hybrid Variety         Image: I	technology demonstrated       Hybrid Variety       No. of Farmers         Image: Im	technology demonstrated       Hybrid Variety       No. of Farmers       Area (ha)         Image: I	technology demonstrated       Hybrid Variety       No. of Farmers       Area (ha)       Image: marger	technology Hybrid No. of Area Demo	Hybrid demonstrated         No. of Farmers         Area (ha)         Image (ha)         Image (ha)         Image (ha)           High         Low         Average           Image (ha)         Image (ha)         Image (ha)         Image (ha)         Image (ha)           Image (ha)         Image (ha)         Image (ha)         Image (ha)         Image (ha)           Image (ha)         Image (ha)         Image (ha)         Image (ha)         Image (ha)           Image (ha)         Image (ha)         Image (ha)         Image (ha)         Image (ha)           Image (ha)         Image (ha)         Image (ha)         Image (ha)         Image (ha)           Image (ha)         Image (ha)         Image (ha)         Image (ha)         Image (ha)           Image (ha)         Image (ha)         Image (ha)         Image (ha)         Image (ha)           Image (ha)         Image (ha)         Image (ha)         Image (ha)         Image (ha)           Image (ha)         Image (ha)         Image (ha)         Image (ha)         Image (ha)           Image (ha)         Image (ha)         Image (ha)         Image (ha)         Image (ha)           Image (ha)         Image (ha)         Image (ha)         Image (ha)         Image (ha)	technology Hybrid No. of Area Demo Check	technology Hybrid No. of Area Demo % Increase in vield	technology Hybrid No. of Area Demo % Increase Gross	technology Hybrid No. of Area Demo % Increase Gross Gross Gross	technology Hybrid No. of Area Demo % Increase Gross Gross Net Peturn

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

## III. Training Programme

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

Thematic area	No. of	urses Others SC/ST Grand T								
	courses	Male	Others Female	Total	Male	SC/ST Female	Total	( Male	Female	al Total
I Crop Production		Maic	Temate	Total	Whate	remarc	Total	Whate	Temate	Iotai
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total										
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										<b> </b>
Off-season vegetables										
Nursery raising										<b> </b>
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
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				ł – – –			ł – – –			
Plant propagation techniques				ł – – –			ł – – –			
Others (pl specify)										
Total (b)										
c) Ornamental Plants				1			1			
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)				1	1		1			
e) Tuber crops				1	1		1			
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)										

								32
g) Medicinal and Aromatic Plants	1 1						I	52
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			 					
Production and use of organic inputs	<b>├</b> ────							
Management of Problematic soils			 					
Micro nutrient deficiency in crops								1
Nutrient Use Efficiency Balance use of fertilizers			 					<u></u>
Soil and Water Testing	┼───┼							
Others (pl specify)								
Total								
IV Livestock Production and Management	┠────┤		-		-			<u> </u>
Dairy Management	<u>                                     </u>							
Poultry Management								
Piggery Management								
Rabbit Management	<u>├</u> ───┤		 			1	1	<u> </u>
Animal Nutrition Management								
Disease Management								
Feed & fodder technology								
Production of quality animal products								
Others (pl specify)								
Total								
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			 					<u></u>
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	<u> </u>							ł
Women empowerment								
Location specific drudgery reduction technologies			 					
Rural Crafts			 					
Women and child care		-		-				
Others (pl specify)								
Total								
VI Agril. Engineering			 					
Farm Machinary and its maintenance								
Installation and maintenance of micro irrigation								
systems		 						
Use of Plastics in farming practices		 						
Production of small tools and implements								
Repair and maintenance of farm machinery and								
implements	<b>↓</b> ↓							<b> </b>
Small scale processing and value addition	$\vdash$							
Post Harvest Technology	───┤							
Others (pl specify)	<b>├───</b> ┤		 					ļ
Total	┟────┤							
VII Plant Protection	<b>├───</b> ┤		 					ļ
Integrated Pest Management	┟────┤							
Integrated Disease Management	╂────┼							<u> </u>
Bio-control of pests and diseases	┼───┼							
Production of bio control agents and bio pesticides								
Others (pl specify)	├							
Total	├							+
10001	LL		 l		<u> </u>	1	I	

							33
VIII Fisheries	1 1	1 1	1	l			55
Integrated fish farming							
Carp breeding and hatchery management							
Carp fry and fingerling rearing							
Composite fish culture							
Hatchery management and culture of freshwater							
prawn							
Breeding and culture of ornamental fishes							
Portable plastic carp hatchery							
Pen culture of fish and prawn							
Shrimp farming							
Edible oyster farming							
Pearl culture							
Fish processing and value addition							
Others (pl specify)							
Total							
IX Production of Inputs at site							
Seed Production							
Planting material production							
Bio-agents production							
Bio-pesticides production							
Bio-fertilizer production							
Vermi-compost production							
Organic manures production							
Production of fry and fingerlings							
Production of Bee-colonies and wax sheets							
Small tools and implements							
Production of livestock feed and fodder							
Production of Fish feed							
Mushroom Production							
Apiculture							
Others (pl specify)							
Total							
X Capacity Building and Group Dynamics							
Leadership development							
Group dynamics							
Formation and Management of SHGs							
Mobilization of social capital							
Entrepreneurial development of farmers/youths							
WTO and IPR issues							
Others (pl specify)							
Total							
XI Agro-forestry							
Production technologies							
Nursery management							
Integrated Farming Systems							
Others (pl specify)							
Total							
GRAND TOTAL	1	1					

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

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

Others (r) specify)         I										34
TotalImage: sector of the sector	thers (pl specify)			l		l			l	
in Vegetable Crops         in         in<         in<         in<         in<         in<         in<         i										
Production of low value and high values crops         Image	Horticulture									
Off-scoor vegetables         Image is a strain of the set of the se	Vegetable Crops									
Nursery mising         Imagement of contrasts         Imagement contrasts         Imagement contrasts         <										
Exote vegetables         Image of the second se										
Expon potential vegetables         Image: Conting and Structure Control of Control of Structure Control of Control of Structure Control of Contro of Contro of Control of Control of Control of Contro of Control										
Grading and standardization         Image: Constraint of the standardization         Image: Constraint of the standardization           Others (u) specify)         Image: Constraint of the standardization         Image: Constraint of the standardization         Image: Constraint of the standardization           Di Preist         Image: Constraint of the standardization         Image: Constraint of the standardization         Image: Constraint of the standardization           Management of Occhards         Image: Constraint of the standardization         Image: Constraint of the standardization         Image: Constraint of the standardization           Rejuvenation of old orchards         Image: Constraint of the standardization         Image: Constraint of the standardization         Image: Constraint of the standardization           Rejuvenation of old orchards         Image: Constraint of the standardization         Image: Constraint of the standardization         Image: Constraint of the standardization           Marce origination recharing stants         Image: Constraint of the standardization         Image: Constraint of the standardization         Image: Constraint of the standardization           Propage: Constraint of particle of the standardization         Image: Constraint of the standardization         Image: Constraint of the standardization         Image: Constraint of the standardization           Propage: Constraint of particle of the standardization         Image: Constraint of the standardization         Image: Constraint of the standardization </td <td></td>										
Protective cultivation         Image: set of the set of sectors of sectors of the set of sectors of										
Others (p) specify)         Image in the second				 						
Total (a)Image of the second seco										
b) Prais         Image of the second sec										
Training and Pruning         Image of the second secon										
Layout and Management of Orchards										
Cultivation of Fruit         Imagement of young plants/orchards         Imagement of young plants/orchards         Imagement of young plants/orchards           Repvenation of old orchards         Imagement of young plants/orchards         Imagement of young plants/orchards         Imagement of young plants/orchards           Micro irriguiton systems of orchards         Imagement of young plants         Imagement of young plants         Imagement of young plants           C Otramental Plants         Imagement of potted plants         Imagement of young plants         Imagement of young plants           Export potential of ornamental plants         Imagement of potted plants         Imagement of young plants         Imagement of young plants           Propagation techniques of Ornamental Plants         Imagement of young plants         Imagement of young plants         Imagement of young plants           Production and Management technology         Imagement of young plants         Imagement of young plants         Imagement of young plants           Others (pl specify)         Imagement technology         Imagement technology         Imagement technology         Imagement technology           Production and Management technology         Imagement technology         Imagement technology         Imagement technology           Processing and value addition         Imagement technology         Imagement technology         Imagement technology           Production a										
Management of young plants/orchards         Image of the second plants of the second plant propagation techniques         Image of the second plant plant plants         Image of the second plants           Rejuvenation of old orchards         Image of the second plant plant plants         Image of the second plants										
Rejuvenation of old orchards   <										
Export potential futures         Image: Constraint of the systems of orchards         Image: Constraint of the systems of orchards         Image: Constraint of the systems of orchards         Image: Constraint of the systems of the										
Micro irrigation systems of orchards         Image: Constraint of the										
Plant propagation techniques         Image: state of the state o	licro irrigation systems of orchards									
Others (p) specify)         Image and the second secon	lant propagation techniques									
c) Ornamental Plants             Nursery Management of potted plants             Export potential of onamental plants              Propagation techniques of Ornamental Plants	thers (pl specify)									
Nursery Management         Image of potted plants				 						
Management of potted plants               Export potential of ornamental plants										
Export potential of ornamental plants               Propagation techniques of Ornamental Plants <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
Propagation techniques of Ornamental Plants         Image: Control of Control										
Others (pl specify)         Image: Constraint of the specify of										
Total ( c)         Image: Constraint of the second sec										
d) Plantation crops										
Production and Management technology         Image: specify of the specify of t				 						
Processing and value addition       Image: Constraint of the second										
Others (pl specify)         Image: specify of the										
Total (d)         Image: Constraint of the second seco				 						
e) Tuber crops </td <td></td>										
Production and Management technology										
Processing and value additionImage: Constraint of the section of the se										
Others (pl specify)Image: specify of the										
Total (e)Image: state of the sta	6									
f) Spices										
Production and Management technologyProcessing and value addition </td <td></td>										
Processing and value additionImage: Constraint of the second										
Others (pl specify)Image: technologyImage: technology $g)$ Medicinal and Aromatic PlantsImage: technologyImage: technologyNursery managementImage: technologyImage: technologyPost harvest technology and value additionImage: technologyImage: technologyOthers (pl specify)Image: technologyImage: technologyTotal (g)Image: technologyImage: technologyGT (a-g)Image: technologyImage: technologyIII Soil Health and Fertility ManagementImage: technologySoil fertility managementImage: technologyIntegrated water managementImage: technologyIntegrated Nutrient ManagementImage: technologyImage: technologyImage: technologyIntegrated Nutrient ManagementImage: technologyImage: techn										
g) Medicinal and Aromatic PlantsNursery management </td <td></td>										
Nursery management </td <td>otal (f)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	otal (f)									
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Post harvest technology and value additionOthers (pl specify)Total (g)GT (a-g)III Soil Health and Fertility ManagementSoil fertility management02 $36$ -Integrated water management02 $36$ -Integrated Nutrient Management03 $54$ -Others of organic inputs02 $36$ -Management of Problematic soils02 $36$ -Micro nutrient deficiency in crops0118-Nutrient Use Efficiency02 $34$ -Matriert Testing02 $36$ -Others (pl specify)										
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Production and use of organic inputs $02$ $36$ - $36$ $04$ - $04$ $40$ -Management of Problematic soils $02$ $36$ - $36$ $04$ - $04$ $40$ -Micro nutrient deficiency in crops $01$ $18$ - $18$ $02$ - $02$ $20$ -Nutrient Use Efficiency $02$ $34$ - $34$ $06$ - $06$ $40$ -Balance use of fertilizers $02$ $34$ - $34$ $06$ - $06$ $40$ -Soil and Water Testing $02$ $36$ - $36$ $04$ - $04$ $40$ -Others (pl specify) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>40</td>								-		40
Management of Problematic soils         02         36         -         36         04         -         04         40         -           Micro nutrient deficiency in crops         01         18         -         18         02         -         02         20         -           Nutrient Use Efficiency         02         34         -         34         06         -         06         40         -           Balance use of fertilizers         02         34         -         34         06         -         06         40         -           Soil and Water Testing         02         36         -         36         04         -         04         40         -           Others (pl specify)										60
Micro nutrient deficiency in crops         01         18         -         18         02         -         02         20         -           Nutrient Use Efficiency         02         34         -         34         06         -         06         40         -           Balance use of fertilizers         02         34         -         34         06         -         06         40         -           Soil and Water Testing         02         36         -         36         04         -         04         40         -           Others (pl specify) <td< td=""><td></td><td>-</td><td></td><td></td><td>-</td><td></td><td>-</td><td>-</td><td></td><td>40 40</td></td<>		-			-		-	-		40 40
Nutrient Use Efficiency         02         34         -         34         06         -         06         40         -           Balance use of fertilizers         02         34         -         34         06         -         06         40         -           Soil and Water Testing         02         36         -         36         04         -         04         40         -           Others (pl specify)		-						-		20
Balance use of fertilizers         02         34         -         34         06         -         06         40         -           Soil and Water Testing         02         36         -         36         04         -         04         40         -           Others (pl specify) <t< td=""><td></td><td>-</td><td></td><td></td><td>_</td><td></td><td>-</td><td></td><td></td><td>40</td></t<>		-			_		-			40
Soil and Water Testing         02         36         -         36         04         -         04         40         -           Others (pl specify) <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>40</td>		-								40
Others (pl specify)										40
		02	50	50	54		57	10		10
Total         18         320         320         40         40         360		18	320	 320	40		40	360		360
IV Livestock Production and Management     IV				 		1			1	
Dairy Management										
Poultry Management										

Pagery Management         Description         Description <thdescription< th=""></thdescription<>											35
Rabik NangementImage is a set of the set	Piggery Management	l	1			1			l		
Animal NumberImage<											
Feak & folder technologyImage of the sectorImage of											
Production of quality animal productsImage: Section of quality animal productsImage: Section of quality and quality											
Others (c) specify)         Image: Control of the second seco											
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nutrition gardening         Image: Section of the											
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det de la point de											
efficiency dieImage in the processingImage in the processing of cookingImage in the processing of cooking<											
Minimization of nutrient loss in processingImage of the second of the secon	Designing and development for high nutrient										
Processing and cooking Cender maintstrange of hybrid Storage loss minimization techniquesImage of hybrid Cender maintstrange Maintstrange of hybrid Cender Maintstrange M											
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Storage loss minimization techniquesImage of the second secon											
Value additionImage and the set of the se											
Women empowermentImage: Constant specific drudgery reduction technologiesImage: Constant specific druggery reduction technologi											
Location specific drudgery reduction technologiesImal CarfisImal Carfis<											
Rural CraftsImage: Second											
Women and child careImage: Section of the											
Others (pl specify)       Image: Control of the second secon											
Total         Image: Constraint of the second s											
VI.Agril. EngineeringImage: Second Secon											
Farm Machinary and its maintenanceImage and the stallation and maintenance of micro irrigation systemsImage and the system											
Installation and maintenance of micro irrigation systems       Image: Systems											
systemsImage: system											
Production of small tools and implementsImage of small and maintenance of farm machinery and implementsImage of small and machinery and implementsImage of small and machinery and implementsImage of small and small	-										
Repair and maintenance of farm machinery and implementsImage and maintenance of farm machinery and implementsImage and implementsImage and											
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Post Harvest Technology         Image: Constraint of the section											
Others (pl specify)Image of the second s	Small scale processing and value addition										
Total         Image Network         Network <td></td>											
VII Plant ProtectionImagementOHImagementOHTTTOHSImagementOHTTTOHSSS<											
Integrated Pest Management         04         72         -         72         08         -         08         80         -         80           Integrated Disease Management         04         72         -         72         08         -         08         80         -         80           Bio-control of pests and diseases         04         72         -         72         08         -         08         80         -         80           Production of bic control agents and bio         pesticides         04         72         -         72         08         -         08         80         -         80           Others (pl specify)         05         90         -         90         10         -         100         100         -         100           Total         21         378         378         42         42         420<											
Integrated Disease Management         04         72         -         72         08         -         08         80         -         80           Bio-control of pests and diseases         04         72         -         72         08         -         08         80         -         80           Production of bio control agents and bio pesticides         04         72         -         72         08         -         08         80         -         80           Others (pl specify)         05         90         -         90         10         -         100         100         -         100           Total         21         378         378         42         42         420         420         420           VIII Fisheries         1         1         1         100         -         100         -         100         -         100         100         -         100         100         -         100         100         100         -         100         100         -         100         100         100         100         100         100         100         100         100         100         100         100         100 <t< td=""><td></td><td>04</td><td>72</td><td></td><td>72</td><td>08</td><td></td><td>08</td><td>80</td><td></td><td>80</td></t<>		04	72		72	08		08	80		80
Bio-control of pests and diseases0472-7208-0880-80Production of bio control agents and bio pesticides0472-7208-0880-80Dthers (pl specify)00590-9010-10100-100Total21378378424242420420420VIII Fisheries100Carp breeding and hatchery management <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Production of bio control agents and bio pesticides0472-7208-0880-80Others (pl specify)0590-9010-1010010100											
pesticides0472-7208-0880-80Others (pl specify)0590-9010-10100.100Total21378423784242420420420VIII Fisheries-37842-10100.100.100Integrated fish farming100100-100100.420Carp breeding and hatchery management100100100100.100		01	12		12	00		00	00		00
Others (pl specify)0590-9010-10100-100Total21378378424242420420VIII Fisheries100-100-100-100-100-100-100-100-100100-100-100100-100100-100100-100100-100100-100100-100100-100100-100100-100100-100		04	72	-	72	08	-	08	80	-	80
Total213783784242420420VIII FisheriesII <tdi< t<="" td=""><td></td><td>05</td><td>90</td><td>-</td><td>90</td><td>10</td><td>-</td><td>10</td><td>100</td><td>-</td><td>100</td></tdi<>		05	90	-	90	10	-	10	100	-	100
Integrated fish farmingImage of the second seco		21	378		378	42		42	420		420
Carp breeding and hatchery managementImage: Carp fry and fingerling rearingImage: Carp fry and finder fry fry and game fry and culture of freshwaterImage: Carp fry and finder fry fry and finder fry fry and fry	VIII Fisheries										
Carp fry and fingerling rearingImage: Composite fish cultureImage: Composi											
Composite fish cultureImage: Seed ProductionImage: Seed Pro											
Hatchery management and culture of freshwater prawnImage with the second secon											
prawnImage: set of the set of											
Breeding and culture of ornamental fishesImage: constraint of the second se											
Portable plastic carp hatcheryImage: Constraint of the productionImage: Constraint of the product of											
Pen culture of fish and prawnImage: Constraint of the const											
Shrimp farmingImage: Shrimp farming<											
Edible oyster farmingImage: selectionImage: selection											
Pearl cultureImage: style sty											
Fish processing and value additionImage: second											
Others (pl specify)Image: specify of the specific the spec											
TotalImage: Constraint of Constra											
IX Production of Inputs at siteImage: sit							1		1		
Seed ProductionImage: Seed Production											
Planting material productionImage: Constraint of the second s											
Bio-pesticides production	Planting material production										
Bio-fertilizer production											
	Bio-fertilizer production										

										36
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs	01	18	-	18	02	-	02	20	-	20
Mobilization of social capital										
Entrepreneurial development of farmers/youths	01	18	-	18	02	-	02	20	-	20
WTO and IPR issues										
Others (pl specify)										
Total	02	36		36	04		04	20		20
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	41	738	-	738	82	-	82	820	-	820

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

Thematic area	No. of									
	courses		Others			SC/ST		(	Frand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total										
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
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										

			37
Plant propagation techniques	1	1 1	57
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			
Processing and value addition			
Others (pl specify)			
Total (d)			
e) Tuber crops			
Production and Management technology			
Processing and value addition			
Others (pl specify)     Image: Constraint of the specify of the specific of the spec			
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)			
III Soil Health and Fertility Management     02     36     -     36     04     -	04 40		40
Soil fertility management0236-3604-Integrated water management0236-3604-	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		40
Integrated water management 02 50 - 50 04 - 1 Integrated Nutrient Management 03 54 - 54 06 -	04 40		60
Production and use of organic inputs 02 36 - 36 04 -	04 40	_	40
Management of Problematic soils 02 36 - 36 04 -	04 40	-	40
Micro nutrient deficiency in crops 01 18 - 18 02 -	02 20	-	20
Nutrient Use Efficiency         02         34         -         34         06         -	06 40		40
Balance use of fertilizers         02         34         -         34         06         -	06 40		40
Soil and Water Testing         02         36         -         36         04         -	04 40	-	40
Others (pl specify)	40 260		260
Total1832032040IV Livestock Production and Management </td <td>40 360</td> <td></td> <td>360</td>	40 360		360
Dairy Management			
Poultry Management			
Piggery Management			
Rabbit Management			
Animal Nutrition Management			
Disease Management			
Feed & fodder technology			
Production of quality animal products			
Others (pl specify)			
Total			
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			
Minimization of nutrient loss in processing			
Minimization of nutrient loss in processing			
Minimization of nutrient loss in processing       Image: Constraint of the second			
Minimization of nutrient loss in processing			

Lacation specific drudgery eduction technologies         Image and balls care         Image and balls car											38
Rund Lorants         Image of the second	Location specific drudgery reduction technologies	1									30
Women and child care         Image: Control of the set of specify)         Image											·
Total         Image: Constraint Product of Transmission Products											
VI Agrit. Engineering         Ima Machinary and its maintenance	Others (pl specify)										
Harm Machinary and its maintenance         Image											
Installation and maintenance of micro irrigation systems         Image of the systems         Image of th	VI Agril. Engineering										
systems         Image number of the systems         Image numerof the systems         Image number of the	Farm Machinary and its maintenance										
Use of Plantics in farming practices         Image: Constraint Cons	Installation and maintenance of micro irrigation										
Production of small tools and implements         Image and maintenance of fram machinery and implements         Image and maintenance of fram machinery and implements         Image and maintenance of fram machinery and machinery andimachinery and machinery and machinery and machinery and											
Repair and maintenance of farm machinery and implements         Implements											
implements         Impleme											
Post Harvest Technology         Image: Control of the second											I
Others (p)         Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>											
Total         Image and the second secon	Post Harvest Technology										
VII Flant Protection         0         72         72         08         08         80         88           Integrated Disease Management         04         72         72         08         08         80         88           Bio control of pests and diseases         04         72         72         08         08         80         88           Bio control of pests and diseases         04         72         72         08         08         80         88           Others (pt specify)         05         90         -90         10         100         100         100           Total         21         378         378         42         42         420         420           Carp breeding and hachery management         0	Others (pl specify)										
Integrated Pest Management         04         72         .         72         08         .00         80         .80           Bio-control of perst and diseases         04         72         .72         08         .08         80         .80           Production of bio control agents and bio         04         72         .72         08         .08         80         .80           Production of bio control agents and bio         04         .72         .72         08         .08         80         .80           Others (pl specify)         05         90         .90         10         .10         10         .00         .10         .10         .00         .10         .10         .00         .10         .10         .00         .10         .10         .00         .10         .10         .00         .10 <td< td=""><td>Total</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Total										
Integrated Disease Management         04         72         .         72         08         .         08         80         .         88           Bio-control opersis and diseases         04         72         .         72         08         .         08         80         .         88           Production of bio control agents and bio         04         72         72         08         .         08         80         .         88           Others (d) Epscify)         05         90         .         90         10         .         10         100         .         100           Total         21         378         378         42         42         42         42         42         42           Carp breeding and hatchery management         .<											
Bio-control of pests and diseases         04         72         .         72         08         .         08         80         .         88           Production of bio control agents and bio         04         72         .         72         08         .         08         80         .         88         00         .         100         100         .         1	Integrated Pest Management	04		-	-	08	-	08	80	-	80
Production of bio control agents and bio         04         72         72         08		04		-		08	-			-	80
presticides         04         72         7         208         80         -         88         80         -         80         0         100		04	72	-	72	08	-	08	80	-	80
Others (pl specify)         05         90         -         90         10         100         -         100           Total         21         378         378         42         42         420         421           Integrated fish farming         378         378         42         42         420         421           Carp freeding and hatchery management         378         378         42         42         420         421           Carp freeding and hatchery management and culture of freshwater prawn         378         42         42         420         420           Breeding and culture of ornamental fishes         2 <th2< th="">         3<!--</td--><td>Production of bio control agents and bio</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th2<>	Production of bio control agents and bio										
Total         21         378         378         42         42         420         420           VIII Fisheries         Integrated fish farming         Image and matchery management         Image and matchery         Image and matchery </td <td>pesticides</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>08</td> <td></td> <td>08</td> <td></td> <td></td> <td>80</td>	pesticides	-	-		-	08		08			80
VIII Fisheries         Image of the stress of the stre	Others (pl specify)	05	90	-	90	10	-	10	100	-	100
Integrated fish farming         Image of the second se		21	378		378	42		42	420		420
Carp breeding and hatchery management         Image: Carp fry and fingerling rearing         Image: Carp fingerling	VIII Fisheries										
Carp fy and fingering raring       Image: Composite fish culture	Integrated fish farming										
Composite fish culture         Image of the second sec	Carp breeding and hatchery management										
Harchery management and culture of freshwater prawn       Image of the second sec	Carp fry and fingerling rearing										
prawn         Image: Constraint of Singles 2000         Image: Cons	Composite fish culture										
Breeding and culture of ornamental fishes       Image: Constraint of the second s	Hatchery management and culture of freshwater										
Portable plastic carp hatchery											i.
Pen culture of fish and prawnImage: Constraint of the second											
Shrimp farming       Image: Shrimp farming       Image: Shrimp farming       Image: Shrimp farming         Edible oyster farming       Image: Shrimp farming       Image: Shrimp farming       Image: Shrimp farming         Pearl culture       Image: Shrimp farming       Image: Shrimp farming       Image: Shrimp farming       Image: Shrimp farming         Others (pl specify)       Image: Shrimp farming       Image: Shrimp farming       Image: Shrimp farming       Image: Shrimp farming         Steed Production of Inputs at site       Image: Shrimp farming       Image: Shrimp farmi	Portable plastic carp hatchery										
Edible oyster farming       Image: Constraint of the second											
Pearl cultureImage: Control of the sector of th											
Fish processing and value addition       Image: Constraint of the second s	Edible oyster farming										
Others (pl specify)         Image: Constraint of the second s											
TotalImage: constraint of the second sec	Fish processing and value addition										
IX Production of Inputs at siteImage: siteImage: siteImage: siteSeed ProductionImage: siteImage: siteImage: siteImage: sitePlanting material productionImage: siteImage: siteImage: siteImage: siteBio-agents productionImage: siteImage: siteImage: siteImage: siteBio-fertilizer productionImage: siteImage: siteImage: siteImage: siteBio-fertilizer productionImage: siteImage: siteImage: siteImage: siteVermi-compost productionImage: siteImage: siteImage: siteImage: siteVermi-compost productionImage: siteImage: siteImage: siteImage: siteProduction of fixer siteImage: siteImage: siteImage: siteImage: siteProduction of livestock feed and fodderImage: siteImage: siteImage: siteImage: siteProduction of Fish feedImage: siteImage: siteImage: siteImage: siteImage: siteMushroom ProductionImage: siteImage: siteImage: siteImage: siteImage: siteOthers (pl specify)Image: siteImage: siteImage: siteImage: siteImage: siteTotalImage: siteImage: siteImage: siteImage: siteImage: siteImage: siteFormation and Management of SHGsImage: siteImage: siteImage: siteImage: siteImage: siteImage: siteFormation of social capitalImage: siteImage: siteImage: sit	Others (pl specify)										
Seed ProductionImage: seed Production											
Planting material productionImage: specific speci	IX Production of Inputs at site										
Bio-agents productionImage: specific productionImage: specific productionImage: specific productionBio-fertilizer productionImage: specific productionImage: specific productionImage: specific productionOrganic manures productionImage: specific productionImage: specific productionImage: specific productionOrganic manures productionImage: specific productionImage: specific productionImage: specific productionProduction of fry and fingerlingsImage: specific productionImage: specific productionImage: specific productionProduction of Bree-colonies and wax sheetsImage: specific productionImage: specific productionImage: specific productionSmall tools and implementsImage: specific productionImage: specific productionImage: specific productionImage: specific productionProduction of Fish feedImage: specific productionImage: specific productionImage: specific productionImage: specific productionMushroom ProductionImage: specific productionImage: specific productionImage: specific productionImage: specific productionOthers (pl specify)Image: specific productionImage: specific productionImage: specific productionImage: specific productionTotalImage: specific productionImage: specific productionImage: specific productionImage: specific productionGroup dynamicsImage: specific productionImage: specific productionImage: specific productionImage: specific productionGroup dynamicsImage: specific product product product pr											
Bio-pesticides productionImage: state of the											
Bio-fertilizer productionImage: Constraint of the second seco											
Vermi-compost productionImage: Comparison of the second secon											
Organic manures productionImage: Constraint of the second sec											
Production of fry and fingerlingsImage: state s											
Production of Bee-colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsSmall tools and implementsImage: colonies and max sheetsImage: colonies and max sheetsImage: colonies and max sheetsProduction of livestock feed and fodderImage: colonies and max sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsProduction of Fish feedImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsProduction of Fish feedImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsMushroom ProductionImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsMushroom ProductionImage: colonies and wax sheetsImage: colonies and wax sheetsOthers (pl specify)Image: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsTotalImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsTotalImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheetsImage: colonies and wax sheets<											
Small tools and implementsImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderProduction of Fish feedImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderProduction of Fish feedImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderMushroom ProductionImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderApicultureImage: constraint of the stock feed and Group DynamicsImage: constraint of the stock feed and Group DynamicsFormation and Management of SHGsImage: constraint of the stock feed and fodderImage: constraint of the stock feed and											
Production of livestock feed and fodderImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderProduction of Fish feedImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderMushroom ProductionImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderApicultureImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderOthers (pl specify)Image: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderMobilization of social capitalImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderMTO and IPR issuesImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fodderImage: constraint of the stock feed and fee											
Production of Fish feedImage: Constraint of SHGsImage: Constraint of SHGs<											
Mushroom ProductionImage: Constraint of the section of t											
ApicultureImage: Constraint of the second secon											
Others (pl specify)Image: constraint of the specify of the specific of the specif											
TotalImage: constraint of the second sec											
X Capacity Building and Group DynamicsImage: Constraint of the second secon											
Leadership developmentImage: selection of social capitalImage: selection of social capitalImage: selection of selection of social capitalImage: selection of sele											
Group dynamicsImage: second secon	X Capacity Building and Group Dynamics										
Formation and Management of SHGs       01       18       -       18       02       -       02       20       -       20         Mobilization of social capital               20       -       20        20        20        20        20        20        20        20         20         20         20          20 </td <td></td>											
Mobilization of social capitalImage: constraint of social capitalImage: constraint of social capitalImage: constraint of social capitalEntrepreneurial development of farmers/youths0118-1802-0220-WTO and IPR issuesImage: constraint of social capitalImage: constraint of social capital<											
Mobilization of social capitalImage: constraint of social capitalImage: constraint of social capitalImage: constraint of social capitalEntrepreneurial development of farmers/youths0118-1802-0220-WTO and IPR issuesImage: constraint of social capitalImage: constraint of social capital<	Formation and Management of SHGs	01	18	-	18	02	-	02	20		20
Entrepreneurial development of farmers/youths         01         18         -         18         02         -         02         20         -           WTO and IPR issues         Image: Constraint of the second se	Mobilization of social capital										
WTO and IPR issues       Image: Constraint of the system       Image: Constand of the system       Image: Co	Entrepreneurial development of farmers/youths	01	18	-	18	02	-	02	20	-	
Total         02         36         36         04         04         20         20	WTO and IPR issues										
	Others (pl specify)										
XI Agro-forestry		02	36		36	04		04	20		20
	XI Agro-forestry										

										39
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	41	738	-	738	82	-	82	820	-	820

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

	No. of		~ .		No. of	Participants			a	
Area of training	Courses	Male	General Female	Total	Male	SC/ST Female	Total	Male	Grand Total Female	Total
Nursery Management of		Male	remaie	Totai	Male	remaie	Total	Male	Feinale	Total
Horticulture crops										
Training and pruning of										
orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs	02	16	-	16	04	-	04	20	-	20
Planting material production	02	10	_	10	04		04	20	_	20
Vermi-culture	01	08	-	08	02	-	02	10	-	10
Mushroom Production	01	08	-	08	02	-	02	10	-	10
	01	08	-	08	02		02	10	-	10
Bee-keeping	01	08	-	08	02	-	02	10	-	10
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	05	40	-	40	10	-	10	50	-	

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

	No. of				No. of	f Participants				
Area of training	Courses		General			SC/ST	1		Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of										
Horticulture crops										<b> </b>
Training and pruning of orchards										
Protected cultivation of										<b> </b>
vegetable crops										
Commercial fruit production										
Integrated farming										<b> </b>
Seed production										<b> </b>
Production of organic inputs										ļ
Planting material production										ļ
Vermi-culture										
Mushroom Production										ļ
Bee-keeping										ļ
Sericulture										ļ
Repair and maintenance of farm										
machinery and implements										
Value addition										<b></b>
Small scale processing										<u> </u>
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		1					
Cold water fisheries										
Fish harvest and processing										
technology										
Fry and fingerling rearing			1							
Any other (pl.specify)										
TOTAL								İ		

## Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off 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	02	16	-	16	04	-	04	20	-	20
Planting material production										
Vermi-culture	01	08	-	08	02	-	02	10	-	10
Mushroom Production	01	08	-	08	02	-	02	10	-	10
Bee-keeping	01	08	-	08	02	-	02	10	-	10
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	05	40	-	40	10	-	10	50	-	

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

	No. of	No. of Participants								
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	05	40	-	40	10	-	10	50	-	50
Integrated Nutrient management	04	32	-	32	08	-	08	40	-	40
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	01	08	-	08	02	-	02	10	-	10
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs	01	08	-	08	02	-	02	10	-	10
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	11	88		88	22		22	110		110

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

	No. of No. of									
Area of training	Courses		General			SC/ST		(	Grand Tota	ıl
		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					
Any other (pl.specify)					
TOTAL					

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

	No. of	No. of Participants								
Area of training	Courses		General			SC/ST		(	Grand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	05	40	-	40	10	-	10	50	-	50
Integrated Nutrient management	04	32	-	32	08	-	08	40	-	40
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	01	08	-	08	02	-	02	10	-	10
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs	01	08	-	08	02	-	02	10	-	10
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	11	88		88	22		22	110		110

### Table. Sponsored training programmes

	No. of Courses				No. of	f Participa	nts			
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										
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										

42

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					

### Name of sponsoring agencies involved

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

	No. of				No. of	Participant	s			
Area of training	Courses		General			SC/ST			Grand Tota	ıl
		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										<u> </u>
Others (pl. specify)										<u> </u>
Total										L
Agricultural Extension					L					ļ
Capacity building and group										
dynamics										L
Others (pl. specify)										
Total				ļ		ļ				ļ
Grand Total										<u> </u>

			No. of	TOTAL
Activities	No. of programmes	No. of farmers	Extension	
			Personnel	
Advisory Services	39	509	10	519
Diagnostic visits	08	38	04	42
Field Day	04	86	02	88
Group discussions	05	60	-	60
Kisan Ghosthi	06	185	10	195
Film Show				
Self -help groups				
Kisan Mela				
Exhibition				
Scientists' visit to farmers field	94	560	15	575
Plant/animal health camps				
Farm Science Club				
Ex-trainees Sammelan				
Farmers' seminar/workshop				
Method Demonstrations				
Celebration of important days	02	225	10	235
Special day celebration				
Exposure visits				
Others (pl. specify)				
Total	156		51	1714

# **IV. Extension Programmes**

## **Details of other extension programmes**

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	10,000(10)
News paper coverage	12
Popular articles	
Radio Talks	
TV Talks	
Animal health amps (Number of animals treated)	
Others (pl. specify)	
Total	10,012

	Message Type	Type of Messages							
Name of KVK		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total	
	Text only	42	-	06	02	32	02	84	
	Voice only								
	Voice & Text both								
	Total Messages	42	-	06	02	32	02	84	
	Total farmers Benefitted	1890		270	90	1440	90	3780	

# V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised	Types of Activities	No. of	Number of	Related crop/livestock technology	
Technology Week		Activities	Participants	Related eropinvestoch teenhologj	
	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

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals						
Oilseeds						
Pulses						
Commercial crops						
Vegetables						
Flower crops						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
L						

Others			
Total			

#### 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	•	ř.				
Vegetable seedlings						
vegetable seedings						
Fruits						
110105						
Ornamental plants						
Ornamental plants						
Medicinal and Aromatic						
Medicinal and Alomatic						
Plantation						
a :						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total						

46

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

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

#### Table: Production of livestock materials

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

# VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

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

# VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted	Date of SAC
Dataganj, Badaun-II	01	9/11/2020

## IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution

# X. PUBLICATIONS

Category	Number	
Books		
Technical bulletins		
Research Paper		
Lead Papers		
Book Chapters		
Popular Articles		
Newsletters		
Technical reports	04	
Others (pl. specify)	10,000	

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

Activities conducted									
No. of Training programmesNo. of Demonstration sNo. of plant materials producedVisit by farmersVisit by offic(No.)(No.)									
			(1100)	(1(00)					

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

#### Introduction of alternate crops/varieties

	1		
Crops/cultivars	Area (ha)	Extent of damage	Recovery of damage through KVK initiatives if any
Total			

#### Major area coverage under alternate crops/varieties

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

#### Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
Total		

#### Animal health camps organised

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

#### Seed distribution in drought hit states

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

### Large scale adoption of resource conservation technologies

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

#### Awareness campaign

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

Total						

50

# 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

# Sample KVK Case study

#### NDR-8501 becoming popular in farmers' for their yielding trait: Ghazipur

**Situation analysis/ Problem statements:-** Mr. Sanjay Singh, village Khajurgaon, Post:Indore block:Mardah, district:Ghazipur, a farmer who was selected for this demonstration. He was earlier involved with local variety of mustard Pusa Bold or Varuna. These varieties were low in yield

**Plan, Implement and Support:-** KVK Ghazipur tries to make them aware regarding scientific cultivation of mustard. That starts from land preparation to harvesting. This KVK has encouraged the farmer for soil testing and on the basis of that farmer was advised for balanced dose of chemical fertilizer with high yielding varieties Pusa Tarak. That was sown on 01-11-2016 with line sowing and fertilizer application was done with basal application in which half dose of nitrogen full dose of SSP and full dose of MOP as recommended. Rest nitrogen used after first irrigation.

**Output:-** Mr. Sanjay Singh adopted the the balanced dose of chemical, fertilizer (N:P:K:S::150:40:40:30) kg/ha in mustard crop as per suggestion of KVK's scientist for his 0.25ha land. His local yield was 3.85 qt with recommended technology. His yield increased by 33.76% with yield 5.15 qt. The economical gain in terms of per unit expenditure gross income, net return and BCR are recorded. Rs 6975, Rs. 18857, Rs. 11882 and 2.70 correspondingly.

**Outcome:-** Mustard crop is the major oilseed crop of the district. KVK Ghazipur conducted 322 demonstrations in 87 villages during 2004-05 to 2016-17 in an area of 89 ha at farmers' field with using HYV NDR-8501, Pusa Tarak and balanced dose of chemical fertilizer (N:P:K:S::150:40:40:30) kg/ha. This variety has been disseminated in 170 villages of the district in area of approximately 900ha. The outcome of this demonstration motivated the farming communities to replace their old varieties, non-descriptive varieties. Mr. Sanjay Singh is very happy on improvement in their income, livelihood and set forth example for others.

**Impact:-** Mr. Sanjay Singh is becoming one of the progressive and learned farmers for others with regards to popularization of Pusa Tarak. This technology helps him for livelihood, empowerment and make him enthusiastic regards oilseed production. He is one of the progressive farmer after a becoming a part of KVK activities and get their effectiveness for his own development. Mr. Sanjay Singh 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



**Mustard Crop Pusa Tarak** 

#### 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	<b>Availability</b> (Please $\sqrt{mark}$ )	Number of ATICs
01	Reception counter		
02	Exhibition / technology museum		
03	Touch screen Kiosk		
04	Cafeteria		
05	Sales counter		
06	Farmer's feedback register		
07	Others if any (please specify)		

# D. Technology information provided

# D.1. Details on technology information

S. No	Information category	Number of ATICs	Total number of	Category of information						
			farmers							
			benefitted							
				Varieties / hybrids	Pest management	Disease management	Agro- techniques	Soil and water conservation	Post Harvest technology and Value addition	Animal Husbandry and fisheries
01	Kisan Call Centre / other Phone calls from farmers									
02	Video shows									
03	Letters received									
04	Letters replied									
05	Training to farmers / technocrats / 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					
		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	02

#### 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** Achievement of Special programmes

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

S. No.	Name of QP/Job role	Duration	No. of			No.	of Partici	pants		
		(hrs)	Courses	SCs	/STs	Ot	hers	Te	otal	TOTAL
			Organised	Male	Female	Male	Female	Male	Female	
1	Agriculture Extension Service Provider	200								
2	Agriculture Machinery Demonstrator	200								
3	Agriculture Machinery Operator	200								
4	Agriculture Machinery Repair and	200								
	Maintenance Service Provider	200								
5	Animal Health Worker	300								
6	Aquaculture Technician	200								
7	Aquaculture Worker	200								
8	Aquarium Technician	200								
9	Artificial Insemination Technician	400								
10	Assistant Gardener	200								
11	Beekeeper	200								
12	Brackwishwater Aquaculture Farmer	210								
13	Broiler Farm Worker	200								
14	Citrus Fruit Grower	200								
15	Community Service Provider	200								
16	Dairy Farmer - Entrepreneur	200								
17	Fish Seed Grower	210								
18	Floriculturist - Open cultivation	200								
19	Floriculturist - Protected cultivation	200								
20	Forest Nursery Raiser	200								
21	Freshwater Aquaculture Farmer	200								
22	Friends of Coconut Tree	200								
23	Greenhouse Operator	200								
24	Group Farming Practitioner	200								

25	Harvesting Machine Operator	200				51
26	Hatchery (Fishery) Production Worker	200				
27	Layer Farm Worker	200				
28	Mango Grower	200				
29	Medicinal Plants Cultivator	200				
30	Micro Irrigation Technician	200				
31	Mushroom Grower	200				
32	Nursery Worker	200				
33	Organic Grower	200				
34	Ornamental Fish Technician	200				
35	Packhouse Worker	200				
36	Quality Seed Grower	200				 
37	Seed Processing Plant Technician	200				 
38	Sericulturist	200				 
39	Service and Maintenance Technician-Farm Machinery	205				
40	Shrimp Farmer	240				
41	Small poultry farmer	240				
42	Soil & Water Testing Lab Analyst	240				
43	Soil & Water Testing Lab Assistant	200				
44	Supply Chain Field Assistant	200				
45	Tea Plantation Worker	200				
46	Tractor Operator	200				
47	Vermicompost Producer	200				
	TOTAL					

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

# a) CRM Machinery procured by KVKs

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

# b) IEC activities organized under CRM Project by KVKs

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

# b) Other IEC activities organized under CRM Project by KVKs

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

# 3) Achievement of TSP (Tribal Sub Plan)

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved		in 0.)	of	of trial lkh)	of uins ukh)	of s akh)	oil, t, ples	
No. of Trainings/De mos	No. of Farmers	No. of Trainings/De mos	No. of Women Farmers	No. of Trainings/De mos	No. of Youths	No. of Trainings/De mos	No. of Ext. Person	On-farm trials	Frontline demos	Mobile agro- advisory to farmers	Participants extension activities (N	Production seed (q)	Production Planting mate (Number in la	Production Livestock stra (Number in la	Production ( fingerlings (Number in la	Testing of So water, plan manures sam (Number)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
										<u></u>						

# 4) Achievement of KSHAMTA (Knowledge Systems And Home Based Agricultural Management in Tribal Areas)

Number of Adopted Villages	No. of Act	ivities	No. of farmers benefited				
	Demo	Training	Demo	Training			

## 5) Achievements of SCSP KVKs

	rmer lining	4	en Farmer aining	Rura	l Youths	4	ension sonnel	Number of farmers involved		in ities	in itties seed		of tins lkh)	ı of umber	water, tes (ber)	
No. of Trainings/Dem	No. of Farmers	No. of Trainings/Dem os	No. of Women Farmers	No. of Trainings/Demos	No. of Youths	No. of Trainings/Demos	No. of Ext. Person	On- farm trials	Frontline demos	Mobile agro- advisory to farmers	Participants extension activ (No.)	Production of (q)	Production Planting mate (Number in la	Production o Livestock stra (Number in la	Production o fingerlings (Nui in lakh)	Testing of Soil, <sup>1</sup> plant, manur samples (Num

# 6) Achievement under IFS KVKs

<b>S1.</b>	IFS (Component Name)	No. of IFS	Area (ha)	Number o	f Activities	No. of farmers benefited		
No.		established		Demo	Training	Demo	Training	
1								
2								
3								

# 7) Achievements under Mera Gaon Mera Gaurav (MGMG) project

No. of institutes/ universities involved	Total No of Groups/team formed	No. of Scientists Involved	No. of villages covered	No. of field activities conducted	No. of messages/ advisory sent	Farmers benefited (No.)

# 8) Achievements of Farmers FIRST programme

NRM N	Module	Crop N	Module	Horticultur	e Module	Liv	estock & Pou	ltry	IFS N	Aodel	Extension	n Activities
Demon.	No Farm Families	Demon.	No Farm Families	Demon.	No Farm Families	Demon.	No Farm Families	No of Animals	Demon.	No Farm Families	No. of prog	Farmers

## 9) Activities performed under NARI programme

Activities	Number of activity	No. of farmers/ beneficiaries
OFTs - Nutritional Garden (activity in no. of Unit)		
OFTs - Bio-fortified Crops (activity in no. of Unit)		
OFTs – Value addition (activity in no. of Unit/Enterprise)		
OFTs - Other Enterprises (activity in no. of Unit/Enterprise)		
(activity in no. of Unit/Enterprise)		
FLDs - Nutritional Garden (activity in no. of Unit)		
FLDs – Bio-fortified Crops (activity in no. of Unit)		
FLDs – Value addition (activity in no. of Unit/Enterprise)		
FLD- Other Enterprises (activity in no. of Unit/Enterprise)		
(activity in no. of Unit/Enterprise)		
Trainings		
Extension Activities		
Grand Total		

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

Sample	No. of Samples in lakh	No. of Farmers in lakh	No. of Villages in lakh	Amount realized (Rs. in lakhs)	No. of Soil Health Cards issued (lakhs)
Soil					
Water					
Plant					
Manure					
Total					

# 11) Achievements under NICRA Project

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

# 12) Achievements under ARYA Project

Name of entrepreneurial units	No. of entrepreneurial units established	No. of Training programs	No. of rural	youth trained	No. of youth established units	
	units established	organised	Male	Female	Male	Female
Mushroom production						
Fruits and vegetable						
processing units,						
Horticulture nursery						
Fish farming						
Poultry						
Goat farming						
Piggery						
Duck farming						

Bee keeping				
Others if any				

# 13) Achievements under Rainwater Harvesting Structures

Sr. No.	Activities	Number
1	Training programmes	
2	Demonstration	
3	Plant materials produced	
4	Visit by farmers	
5	Visit by officials	

## 14) Achievements under Pulses Seed Hub programme

Season/Crop	Name of Pulse crop	Variety	Production			Category of seed
			Target (q)	Area sown (ha)	Actual Production (q)	(F/S, C/S)
Kharif	Black gram					
	Green Gram					
	Pigeon pea					
Total (Kharif)						
Rabi	Chick pea					
	Field pea					
	Lentil					

Total (Rabi)				
Summer	Black gram			
Total (Summer)				
Grand Total				

**15)** NEMA (New Extension Methodologies and Approaches)

Name of Crop with variety	No. of districts	No. of Villages selected	No. of Blocks	No. of household selected	
				Adapter household	Non adapter household

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

S.No.	Name of Programme	Number/quantity
1	Plantation by paddy uppulling	
2	DSR	
3	Laser leveler	
4	Training	
5	Kisan Mela	
6	Seminar	
7	Seed production (q)	

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

Name of fodder	Variety	Production (q)	Training courses	No. of farmers benefitted

### 18) Achievements under Swachhata Abhiyan Mission

S.No.	Items	No. of	No. of persons
		Programmes	paticipated
1	Toilet maintenance		
2	Road, drain cleaning		
3	Garbage disposal		
4	Door to door awareness		
5	Awareness campaign		
6	Nookkad Drama		
7	School Drama		
8	School rally		
9	Writing paining slogans		
10	Composting		
11	Other		
12			
13			

# **19)** Achievements under Aspirational District Scheme

Name of programme	Number
Training	
Session No.	
No. of farmers	

Officers/staff involved	
Seed & Plant Distribution	
Programme number	
Seed distribution in q	
No. of plant distributed	
Biological products distributed	
No. of programme organised	
No. of farmers	
Officers/staff involved	
Animal husbandra & fish distribution programme	
Vaccination	
Medicine for control of parasite	
Distribution of mineral mixure	
No. of farmers	
Officers/staff involved	

## XVI Awards

S.No.	Name of Award received	Name of KVK/farmer	Year of Award	Date on which award received

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

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