PROFORMA FOR PREPARATION OF ANNUAL REPORT (April-2017-March-2018)

APR SUMMARY

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

1. Training Programmes

Clientele	No. of	Male	Female	Total	
	Courses			participants	
Farmers & farm women	43	533	329	862	
Rural youths	6	91	23	114	
Extension functionaries	1	-	20	20	
Sponsored Training	4	82	18	100	
Vocational Training					
Total					

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	65	26	
Pulses			
Cereals	18	7.2	
Vegetables			
Other crops	10	0.2	10
(Kitchen Garden)			
Hybrid crops			
Total	83	33.2	
Livestock & Fisheries			
Other enterprises			
Total			
Grand Total	83	33.2	10

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	5	15	15
Livestock			
Various enterprises			
Total			
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total			

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	898	5852
Other extension activities	519	962
Total	1417	6814

5. Mobile Advisory Services

		Type of Messages							
Name of KVK	Message Type	Crop	Livesto ck	Weath er	Mark e- ting		Other enterpri se	Tot al	
	Text only	22	1					23	
KVK, Delhi	Voice only Voice & Text both								
	Total Messages	22	1					23	
	(379 3	967					476 0	

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	108.09	429120.00
Planting material (No.)	1645	2290.00
Bio-Products (kg)		
Livestock Production (No.)		
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	252	
Water	102	
Plant	131	
Total	485	

8. HRD and Publications

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

DETAIL REPORT OF APR-2017-18

1. GENERAL INFORMATION ABOUT THE KVK

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

1:1: Name and address of NVIV with pin	orio, iax aria	O IIIaii	
Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Nafed complex,	011-	011-	kvkujwa@yahoo.com
Village & Post -Ujwa, Nazafgarh,	65638199	28525129	
New Delhi - 110073			Website: <u>www.kvkdelhi.org</u>

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

Address	Telephone		E mail		
	Office	FAX			
National Horticultural Research	011-28522211,	011-28525129	delhi@nhrdf.com		
& Development Foundation	28524150				
(NHRDF), 47, Pankha Road					
Institutional Area, Janakpuri,					
New Delhi, Pin: 110058					

1.3. Name of the Programme Coordinator with phone, mobile No & e-mail

Name of the Programme Coordinator	Telephone / Con	Telephone / Contact			
	Residence Mobile Email				
Dr.P.K.Gupta	011- 28080454	8888867619	drpkgupta11@gmail.com		

1.4. Year of sanction: 1995

1.5. Staff Position (as on 31th March, 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Design -ation	Discip-line	Pay Scale (Rs.)	Pres ent basic (Rs.)	Date of joining	Perman -ent /Temp- orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Programme Coordinator	Dr.P.K. Gupta	PC	Horticulture	37400- 67000 + 9000	4640 0/-	28/2/17	Temp.	Gen	8888867619	47	kvkujwa@y ahoo.com
2	Subject Matter Specialist	Ritu Singh	SMS (H.Sc)	Home Science	15600- 39100 + 5400	2998 0/-	10.02.05	-do-	Gen	9818550652	44	-do-
3	Subject Matter Specialist	Rakesh Kumar	SMS (Hort)	Horticulture	15600- 39100 + 5400	2998 0/-	22.09.05	-do-	Gen	9313047633	42	-do-
4	Subject Matter Specialist	Dr. D. K. Rana	SMS (PP)	Plant Pathology	15600- 39100 + 5400	2584 0/-	5.05.10	-do-	Gen	9310904705	43	-do-
5	Subject Matter Specialist	Vacant*	SMS (AH)	Animal Husbandry	15600- 39100 + 5400		-	-do-	-	-	-	-do-
6	Subject Matter Specialist	Vacant*	SMS (AE)	Agriculture Extension	15600- 39100 + 5400		-	-do-	-	-	-	-do-
7	Subject Matter Specialist	Vacant*	SMS (Agro)	Agronomy	15600- 39100 + 5400		-	-do-	-	-	-	-do-
8	Programme Assistant	Brijesh	PA (SS)	Soil Science	9300- 34800 + 4200	1476 0/-	17.02.14	-do-	Gen	7065787046	35	-do-
9	Computer Programmer	Manju	PA (Comp)	Computer Science	9300- 34800 + 4200	1765 0/-	2.05.08	-do-	Gen	9718666917	36	-do-
10	Farm Manager	Vacant*	Farm Manager	Agriculture	9300- 34800 + 4200		-	-do-	-	-	-	-do-
11	Accountant / Superintendent	V. K. Dixit	OSCA	Administra tion and accounts	9300- 34800 + 4200	2365 0/-	21.10.05	-do-	Gen	9911395569	55	-do-
12	Stenographer	Atma Ram	Store Keeper	Administra tion	5200- 20200 + 1900	1115 0/-	10.02.05	-do-	Gen	9013553955	50	-do-
13	Driver	Rajesh Kumar	Driver	Jeep Driver	5200- 20200 + 1900	1050 0/-	02.02.05	-do-	Gen	9899426775	43	-do-
14	Driver	Krishan	Driver	Tractor Driver	5200- 20200 + 1900	1013 0/-	02.05.08	-do-	Gen	8506920345	47	-do-
15	Supporting staff	Vacant*	Attendant	Administra tion	5200- 20200 + 1800		-	-	-	-	-	-do-
16	Supporting staff	Ramesh Chander	Attendant	Administra tion	5200- 20200 + 1800	9200	10.02.05	-do-	Gen	9560290407	46	-do-

1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	0.5
2.	Under Demonstration Units	1.0
3.	Under Crops	12.0
4.	Orchard/Agro-forestry	0.4
5.	Others (specify) Onion Storage Structure	1.0

1.7. Infrastructural Development:

A) Buildings

		Source			Stage			
		of		Complete			Incompl	lete
S. No.	Name of building	funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m	Status of construction
1.	Administrative Building	ICAR	17.2.2011	548.3	54,38,664/-			
2.	Farmers Hostel							
3.	Staff Quarters (6)							
4.	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor	ICAR	17.2.2011	222.3	1,92,031/-			
8	Farm godown	ICAR	31.3.2011	35.0	1,99,869/-			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	1997	231242	1047**	-
Scooter	1995	21818	200*	-
Motorcycle	2000	47063	51784	-
Jeep	2005	491892	229910	-
Jeep	2017	800000	11874	Excellent
Tractor	2017	700000	233	Excellent

^{*}Meter is not working

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Air conditioner - 1	1999	27500	Not Working
Harrow – 1	1999	8600	Working
Refrigerator - 1	1999	9400	Not Working
Casstte Amplifier Player	1999	4370	Working
Over Head Projector - 1	1995	23520	Working
Slide Projector - 1	1995	11200	Working
Video Cassette Recorder - 1	1997	13000	Working
Television - 1	1997	19890	Working
Fax Machine - 1	1997	13000	Working
Type writer - 1	1996	9855	Working
Seed drill machine - 1	1997	6150	Working
Computer - 2	2000	49500	Not working
Computer -1	2010	25725	Working
Computer -1	2011	24210	Working
Computer -2	2017	80850	Working
Photocopier machine – 1	1998	116610	Working
CD player – 1	2002	8628	Working
Video camera – 1	2002	59990	Not Working
Digital Still camera – 1	2006	24900	Not Working
LCD multi media player	2007	97000	Working
Speaker Sound Colum- 2	1999	2043	Working
R.O1	2014	15500	Working

	1,000		6
Water Cooler-1	1999	20000	37 . 777 11
F: D: (4) 1 1 1 1	2014	11250	Not Working
Finger Print Attendance Machine-1	2014	11250	Working
Heat Convector-2	2014 2011	1800 11200	Working
Refrigerator-1	2011	6100	Working Not Working
Room Cooler-1 Room Cooler-3	2000	20402	Not Working
	2012	1800	Working
Telephone-1	2013		Working
Printer-1 Printer-1	2012	5350 15044	Working
UPS-1	2017	2100	Working Not Working
UPS-2	2013	4106	Working
Trolly-1	2017	158832	Working
Plastic palates-8	2016	29560	Working
Water Cooler with RO-1	2016	42550	Working
Desert Cooler-4	2010	18000	Not Working
Desert Cooler-5	2014	25594	Working
Microphone-1	1999	1278	Working
Heat Convector	2000	1875	Working
Cultivator-1	1997	1672	Working
Tractor trolly-1	1997	11000	Working
Screen-1	1995	1120	Working
Modem-1	1999	3900	Not Working
Modem-1	2007	2850	Not Working Not Working
Printer -1	2007	1850	Not Working Not Working
Printer -1	2010	7035	Working
UPS-1	2009	1700	Not Working
UPS-2	2009	6195	Not Working
UPS -1	2011	1785	Not Working
Soil Testing kit-1	2009	1000	Working
Scanner -1	2010	4148	Working
Speaker-1	2010	1733	Working
Photocopier Machine-1	2011	35000	Working
Gen Set -1	2011	59000	Working
Laptop -1	2011	36170	Working
Submercible Pump-1	2011	148713	Not Working
Submercible Pump-1	2016	84714	Working
Small autoclave-1	2012	67280	Working
Hot air oven-1	2012	45016	Working
Laminator flow -1	2012	78874	Working
Colony counter-1	2012	6156	Working
B.O.D. incubator-1	2012	107730	Working
Microscope-1	2012	37822	Working
Refrigerator -1	2012	32600	Working
Electric balance-1	2012	42750	Working
Water distillation-1	2012	25650	Working
pH meter-1	2012	19687	Working
EC meter-1	2012	21038	Working
Spectrophotometer-1	2012	39150	Working
Flame photometer-1	2012	60750	Working
Computer-1	2012	34000	Working
Air conditioner -1	2012	33975	Working
Laptop-1	2012	37000	Working
UPS-1	2012	2199	Not Working
Sprit lamp-2	2012	157	Working
Hygrometer-1	2012	473	Working
Planker (wood pata with chain)	2012	2300	Not Working
Planker (wood pata with chain)	2016	8947	Working
Mrida Parikshak Soil Testing Mini Lab	2015	75000	Not Working
Mrida Parikshak Soil Testing Mini Lab	2017	90300	Working
Tata Photon Max Wifi	2016	1300	Working

Fire Extinguisher-3	2018	6372	
			Working
Air sky connection chennal-1 set	2018	1600	Working
Head Phone-1	2017	400	Working

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

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

2. DETAILS OF DISTRICT (2017-18)

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

S. No	Farming system/enterprise			
1	Irrigated (bore well) Bajra/Fodder-Mustard/Wheat; Paddy-wheat; Vegetables-Vegetables			
2	Irrigated (canal) Paddy-wheat, Vegetable-Vegetable			
3	Tank Irrigated	-		
4	Rain fed	Fallow-Mustard		
5	Enterprises	Animal Husbandry/Poultry/Mushroom/Bee keeping		

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

S. No	Agro-climatic Zone	Characteristics
1	Trans- Gangatic Plains region (Zone VI)	Semi-Arid, Low rainfall, temperature vary (2 - 48 °C),
		frost occur once or twice in the year.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Inceptisols and entisol	Sandy loam - Loam, Light texture, low water holding capacity, wide	49702
		range of crops can be grown but constraint is saline irrigation water.	

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

S. No	Crop	Area (ha)	Production (MTs)	Productivity (Qtls /ha)
1.	Paddy	5973	25891	43.4
	Wheat	19622	87182	44.4
	Barley	64	186	29.06
	Bajra	1497	3278	21.9
	Maize	35	783	22.37
	Jowar	3193	3067	0.96
	Gram	41	54	13.1
	Potato	436	9273	21.26
	Oilseed	3628	4527	12.5
	S. Cane			
2.	Vegetable (Gross area)+	22387	391901	175.0
3.	Flowers (Gross area)+	5995		

Source: Development Department, Govt. of NCT Delhi.

2.5. Weather data

Month	Rainfall (mm)	Mean monthly Temperature		Mean monthly Relative Humidity (%)	
		Minimum	Maximum	Morning	Evening
April, 2017	15	22.44	37.5	65.3	23.6
May, 2017	34.5	26.2	39.9	66.1	27.6
June, 2017	233.7	26.7	36.8	74.7	40.29
July, 2017	132.5	27.49	35.44	88.8	59.74
August, 2017	109	27.4	34.9	87.5	61.74
September, 2017	-	25.6	33.1	89.2	54.6
October, 2017	-	19.33	33.5	86.8	34.2
November, 2017	3	13.3	36.2	92.3	40.7
December, 2017	9.5	9.24	23.59	92.3	46.2
January, 2018	-	7.1	22.1	97.2	59.2
February, 2018	-	10.7	25.1	93	43.5
March, 2018	-	16.7	32.7	84.0	31.3
Total	628.7	232.2	390.83	1017.2	528.67

Mean	52.39	19.35	32.57	84.8	44.05

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

Category	Population	Production	Productivity				
Cattle 86411							
Crossbred 48012		576144lit.	12 lit/animal/day				
Indigenous	19055	95275 lit.	5 lit/animal/day				
Buffalo	162142	1297136 lit.	8 lit/animal/day				
Sheep							
Crossbred	620	9300 kg meat	15 kg/animal				
Indigenous	312	3744 kg meat	12 kg/animal				
Goats	30470	262042 kg meat	8.6 kg/animal				
Pigs							
Crossbred							
Indigenous							
Rabbits							
Poultry							
Hens	30742	46113kg meat	1.5 kg/bird				
Desi							
Improved							
Ducks							
Turkey and others							

Category	Area	Production	Productivity
Fish	11 ha.	16500 kg./year	1500 kg./ha/year
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

2.7 Details of Operational area / Villages (2017-18)

Taluka Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Najafgarh, Narela Alipur Narela Alipur Alipur	Ghumenhera Shikarpur, Kanganheri Dariya pur kalan, Tigipur	Crop: Wheat, Mustard, Paddy, Bajra, Fodder, vegetables, Enterprise: Dairy animals & value addition /agril produce	 Poor soil fertility & Imbalance use of fertilizer Water salinity Disease & pest infestation. Low productivity in dairy animals. Endo-ecto parasites in animals. Nutritional deficiency in vegetable crops Post harvest losses in cereals, millets, fruits and vegetables crops. Drudgery and safety concerns in farm work. Wide spread nutrient deficiency among rural youths & rural women. Nursery raising in open condition 	 Soil fertility management. Performance of salt tolerant varieties Integrated disease & pest management. Balance feeding in dairy animals. Integrated Nutrient Management in vegetables. Value addition of locally grown crops. Location specific drudgery reduction. Nutritional awareness among masses Nursery raising in protected condition Popularization of improved varieties of wheat, mustard & vegetables Promotion of organic farming

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Wheat & Mustard	Popularization of HYV, Water salinity management, Weed management,
	Grain Storage management, soil fertility management
Paddy	Weed management, Integrated Pest Management, Nutrient Management, soil
	fertility management
Vegetables (cucurbits,	Soil fertility management, Integrated Pest Management, Biological control of
cauliflower, onion, leafy &	pest & diseases, Post harvest management, weed and Nutrient Management,
tomato)	seed treatment, nursery raising, promotion of organic farming.
Animal Husbandry	Nutrient, Disease & Feed Management in milch animals
Fruits (aonla, karonda,	HYV, IPM, Value Addition
guava & papaya)	
Women in Agriculture	Women empowerment, preservation of fruits & vegetables, strengthening of
	SHG's, Health and nutrition awareness and promotion of kitchen
	garden/terrace garden in rural & urban areas.
Agri-based enterprise	Entrepreneurship development in agriculture (value addition, dairy, nursery
	raising of vegetable crops, mushroom cultivation, vermin -compost & bee
	keeping) & market linkage

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2017-18

OFT (Technology Assessment and Refinement)					FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2				
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
8	6	24	15	40	33.2	140	98	

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)						Extension Activities			
		3					4		
Number of Courses			Number of Participants		Number of activities		Number of participants		
Clientele	Targets	Achieveme nt	Targets	Achieveme nt	Targets	Achiev ement	Targets	Achiev ement	
Farmers	65	43	1300	862	433	1417	4400	6814	
Rural youth	5	6	115	114					
Extn. Functionaries	8	1	160	20					

	Seed Production	(Qtl.)	Planting material (Nos.)				
	5		6				
		Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers		
129	108.09	1478	-	1645	35		

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 Nutricut Management	Wheat	Application of fertilizers on soil test basis NPK & Zn + Biofertilizers	3	3
Integrated Nutrient Management	Tomato	Performance evaluation of NAA & CaCl ₂ on nutrient uptake, growth & yield of tomato	3	3
Varietal Evaluation				
Integrated Pest Management	Wheat	Seed treatment with Imidacloroprid 17.8SL @ 3.5ml/kg seed	3	3
Integrated Crop Management				
Integrated Disease Management	Tomato	Seed treatment with <i>trichoderma viride</i> @ 5g/kg seed, soil treatment @ 10g/m² nursery area with decompose FYM + dripping off seedling in 5 gm/ water solution for 15 min before transplanting	3	3
Small Scale Income Generation Enterprises				
Weed Management	Onior	Performance evaluation of oxyfluroben 23.5% and quizalofop ethyle 5% EC weedicide for weed control in onion	3	3
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Post Harvest Technology / Value addition				
Drudgery Reduction	Wheat	Assessment of Capron to protect the workers during harvesting, threshing & winnowing	2	5
Storage Technique				
Others (Pl. specify)				
Total			17	17

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 1 est 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)

WEED MANAGEMENT

Problem definition: Heavy infestation of weed in onion

Technology assessed or refined (as the case may be): Weed control measures on onion yield in Delhi KVK, Ujwa conduct On-farm trial on chemical weed management in onion. The results Broad leaf and grassy weeds were controlled 67.66 and 88.66 per cent and increase yield 217.66 & 241.66 qt/ha (11.02%) respectively.

Table Effect of oxyflurofen 23.5% and quizalofop ethyle 5% EC on weed control and yield at onion

Technology Option	No. of trials	Yield (qt./ha)	Increase in yield (%)	Net Return (Rs./ha)	B:C Ratio
T ₁ - Farmer's Practice (Pendimethilin one hand weeding)		217.66	-	101628/-	1:2.401
T_2 - Oxyfluorfen 23.5%EC @ 150ml/ha + Quizalofop	3	241.66	11.02	193328/-	1:2.612
Ethyl 5%EC @750ml/ha 45 days after DAT					

INTEGRATED PEST MANAGEMENT

Problem definition: Heavy infestation of termite in wheat effecting in a yield loss of 8.1% and income loss of Rs.6720/ha

Technology Assessed or Refined (as the case may be): Termite Management in Wheat

Wheat is an important cereal crop of Delhi. However, there is high incidence of termite resulting in yield loss. The refined technology of seed treatment with imidacloprid @ 3.5ml/kg seeds reduced the percentage of insect infestation incidence from 9.20 to 4.10 and yield was increased by 8.1 per cent.

Table Effect of imidacloprid in control of termite in wheat

Technology Option	No. of trials	Infestation of Insect (%)	Yield (kg/ha)	% Increase in yield over farmer's practice
T_{l} - No seed treatment (Farmer's practice)		9.20	4740	
T ₂ - Seed treatment with Chloropyriphos 20EC @ 4.5 ml/kg seed	3	5.30	5080	6.8%
T ₃ - Seed treatment with Imidacloroprid 17.8 SL @ 3.5 ml/kg seed		4.10	5160	8.1%

INTEGRATED DISEASE MANAGEMENT

Problem definition: Heavy incidence of damping off disease in tomato effecting in a yield loss of 13.97 % and income loss of Rs.35000/ha

Technology Assessed or Refined (as the case may be): Damping off Disease Management in Tomato

Tomato is an important vegetable crop of Delhi. However, there is high incidence of damping off disease in tomato resulting in yield loss. The refined technology of Seed treatment with Trichoderma viride @ 5g/kg seed, soil treatment @ $10g/m^2$ nursery area with decomposed FYM + dipping of seedling in 5g/liter water solution for 15 minutes before transplanting reduced the percentage of disease incidence from 11.9 to 3.9 and yield was increased by 13.97 per cent.

Table Effect of imidacloprid in control of termite in wheat

Technology Option	No. of trials	Incidence of disease (%)	Yield (kg/ha)	% Increase in yield over farmer's practice
<i>T₁</i> :-Farmer's Practice (no seed and soil treatment)	3	11.9	21570	
<i>T₂:</i> -Seed treatment with <i>Trichoderma viride</i> @ 5g/kg. seed and soil treatment @ 10g/m²nursery area with decomposed FYM		5.4	23520	8.29

<i>T</i> ₃ -Seed treatment with <i>Trichoderma viride</i> @ 5g/kg. seed and soil treatment @ 10g/m²nursery area with decomposed FYM	3.9	25080	13.97
+ dipping of seedling in 5g/liter water solution for 15 minutes	3.7	25000	
before transplanting.			

NUTRIENT MANAGEMENT

Problem definition: Lower productivity and profitability in tomato cultivation due to poor flower setting and physiological disorder (Blossom end rot)

Technology Assessed or Refined (as the case may be): Nutrient management in tomato

KVK, Ujwa conduct On-farm trial on Nutrient management in tomato. The application of NAA 0.02%+ CaCl2 0.5% at the time of first flower blooming resulted in control blossom end rot and higher yield (234 qt/ha) as compare to control (210 qt/ha).

Table Effect of oxyflurofen 23.5% and quizalofop ethyle 5% EC on weed control and yield at onion

Technology Option	No. of trials	Plant height at flowering stage	Yield (qt./ha)	Increase in yield (%)	Net Return (Rs./ha)	B:C Ratio
T ₁ : Farmer's Practice (No use of growth regulator)	2	143.3	210.33	-	69098/-	1:2019
T_2 - NAA 0.02%+ CaCl2 0.5% at the time of first flower blooming	3	168.0	234.00	6.68	99300/-	1:253

INTEGRATED NUTRIENT MANAGEMENT

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

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

KVK, Ujwa assess the technology of integrated nutrient management by the application of effect of fertilizer on the soil test basis N (a) 60 kg, P(a) 24kg, K(a)15kg & Zinc 10 kg / acre + Bio fertilizers (Liquid NPK & Zinc) over the farmers practice.

Table Performance of wheat to integrated nutrient management

Technology Option	No. of trials	Yield q t./ha	Increase in yield (%)	Net Return (Rs./ha	B:C Ratio
T_1 – Farmer's Practice (N&P)		47.20	-	44630	2.34
T_2 – Application of fertilizer on the soil test basis N, P, K & Zinc + Bio fertilizers (Liquid NPK & Zinc)	3	5020	6.35	49530	2.49

Drudgery Reduction

Problem definition: Traditionally the cover used by farm women protects them partially against the dust during harvesting, threshing and winnowing.

Technology Assessed or Refined (as the case may be): Use of specially design capron

KVK, Ujwa conduct On-farm trial on assess the effect of specially design capron to protect the worker during harvesting and threshing operation in wheat crop. The results indicated that the use of specially design capron is useful for farm women as it protected mouth, eyes, hair and cloths as well.

Table Effect of capron

Technology Option	No. of trials	Results	Farmers feedback
T_1 : Farmer's Practice (Traditional apron)		Improve tool factor in the	Farmers appreciated the
T_2 - NAA 0.02%+ CaCl2 0.5% at the time of	2	capron were found very	technology.
first flower blooming		useful for the users.	

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2015-16 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	Horizonta	spread of techr	nology
					No. of villages	No. of farmers	Area in ha
1	Mustard	Varietical Evaluation	Improved variety of mustard	Availability of variety seed by HAU, Literature on package & practices	7	50	20
2	Mustard	Integrated disease management	IDM in Mustard	Availability of product used in IDM by State Govt & Demonstration	4	15	6
3	Paddy	Integrated pest management	IPM in paddy	Availability of product used in IPM by State Govt & Demonstration	3	10	4
4	Wheat	Varietical Evaluation	HYV of wheat- WB 02	Availability of variety seed by DWR	1	2	0.8
5	Wheat	Varietical Evaluation	HYV of wheat WB- 02 with bio- fertilizers (Azotobactor+ PSB)	Availability of variety seed by DWR	1	2	0.8
6	Wheat	Varietical Evaluation	HYV of wheat WB 02 under tillage with rotavator	Availability of variety seed by DWR	1	1	0.4
7	Wheat	Varietical Evaluation	HYV of wheat- HPBW 01	Availability of variety seed by DWR	2	4	1.6
8	Wheat	Varietical Evaluation	HYV of wheat HPBW 01 with biofertilizers (Azotobactor+ PSB)	Availability of variety seed by DWR	2	4	1.6
9	Wheat	Varietical Evaluation	HYV of wheat HPBW 01 under tillage with rotavator	Availability of variety seed by DWR	3	5	2.0
10	Rabi season vegetable	Nutritional Security	Kitchen gardening for nutritional security	Nil	5	10	0.2

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

b. Details of FLDs implemented during 2017-18 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

	SI. No.	Crop	Thematic area	Technology Demonstrated	Season and year	` '			No. of farmer demonstratio	Reasons for shortfall in achievement	
						Proposed	Actual	SC/ST	Others	Total	
1		Mustard	<i>Variet</i> ical Evaluation	Improved variety of mustard	Rabi 2017-18	-	20	-	10	10	
2		Mustard	Integrated disease management	IDM in Mustard	Rabi 2017-18	6	6	6	44	50	
3		Paddy	Integrated pest management	IPM in paddy	Kharif 2017-18	4	4	-	10	10	
4		Wheat	<i>Variet</i> ical Evaluation	HYV of wheat- WB 02	Rabi 2017-18	-	0.8	-	2	2	
5		Wheat	<i>Variet</i> ical Evaluation	HYV of wheat WB- 02 with bio- fertilizers (Azotobactor+ PSB)	Rabi 2017-18	-	0.8	-	2	2	
6		Wheat	<i>Variet</i> ical Evaluation	HYV of wheat WB 02 under tillage with rotavator	Rabi 2017-18	-	0.4	-	1	1	
7		Wheat	<i>Variet</i> ical Evaluation	HYV of wheat- HPBW 01	Rabi 2017-18	-	1.6	1	3	4	
8		Wheat	<i>Variet</i> ical Evaluation	HYV of wheat HPBW 01 with bio-fertilizers (Azotobactor+ PSB)	Rabi 2017-18	-	1.6	-	4	4	
9		Wheat	<i>Variet</i> ical Evaluation	HYV of wheat HPBW 01 under tillage with rotavator	Rabi 2017-18	-	2.0	1	4	5	
10		Rabi season vegetable	Nutritional Security	Kitchen gardening for nutritional security	Rabi 2017-18	0.2	0.2	-	10	10	

Details of farming situation

Crop	Season arming situation (RF/Irrigated)		ning situation F/Irrigated) Soil type		Status of soil		ious crop	ing date	est date	onal rainfall (mm)	rainy days
	S	Farmir (RF/	У	N	Р	K	Previous	Sowing	Han	Seaso (No. of
Mustard	Rabi	Irrigated	Saline	M	М	M	Fallow	8/10/2017	14/3/2018	13mm	1 day
Mustard	Rabi	Irrigated	Saline	M	М	M	Fallow	6/10/2017	17/3/2018	13mm	1 day
Paddy	Kharif	Irrigated	Saline	M	М	M	Wheat	7/11/2017	8/4/2018	41.2 mm	7 day
Wheat	Rabi	Irrigated	Saline	M	М	M	Fallow	7/11/2017	8/4/2018	13mm	1 day
Wheat	Rabi	Irrigated	Saline	M	М	M	Fallow	7/11/2017	8/4/2018	13mm	1 day
Wheat	Rabi	Irrigated	Saline	M	М	M	Fallow	7/11/2017	8/4/2018	13mm	1 day
Wheat	Rabi	Irrigated	Saline	M	M	M	Fallow	7/11/2017	8/4/2018	13mm	1 day
Wheat	Rabi	Irrigated	Saline	M	М	M	Fallow	7/11/2017	8/4/2018	13mm	1 day
Wheat	Rabi	Irrigated	Saline	М	М	M	Fallow	7/11/2017	8/4/2018	13mm	1 day
Rabi season vegetable	Rabi	Irrigated	Saline	М	М	М	Fallow			13mm	1 day

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	RH 749 is high yielding variety of Mustard for timely sown condition and perform better in the area.
2	Occurrence of stem rot in Mustard at maturity, its control measure should be search out.
3	The non availability of gypsum and single super phosphate in the market.
4	HPBW-1 & WB -2 is high yielding variety of Wheat for timely sown condition and perform better in the area.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Farmers appreciated wheat variety HPBW-1 & WB -2 as it was yielding than the other variety used by farmers of the area.
2	Farmers appreciated wheat variety RH-749 as it was yielding than the other variety used by farmers of the area.
3	Use of Bio fertilizer in wheat has shown good impact.
4	Bio-fertilizers, Gypsum, Single Super Phosphate should easily be made available at Government agencies/centers.

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	1	27/2/2018	51	
2	Farmers Training	1	20/1/2018	19	
3	Media coverage	2	9/10/2017		
			1/3/2018		
4	Training for extension functionaries	-	-	-	
5	Kisan Gosthi	1	7/10/2017	52	

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

_		technology		No. of	Area			eld (q/ha)		. %	Econ	omics of (Rs.)	demonstra /ha)	tion	E	conomics (Rs.		
Crop	Thematic Area	demonstrated	Variety	Farmers	(ha)	High	Den Low		Check	Increase in yield	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Groundnut								_										
Sesamum																		
Mustard	<i>Variet</i> ical Evaluation	Improved variety of mustard	RH 749	50	20	28.8	23.4	26.55	23.1	12.99	19800	97719	77920	4.8947	19950	83160	63210	4.1684
	Integrated Disease Management	IDM in Mustard	RH 749	15	6	29.7	26.5	27.40	23.1	15.69	19800	98640	78840	4.9818	19950	83160	63210	4.1684
Toria																		
Linseed																		
Sunflower																		
Soybean																		

^{*} 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	•	nomics of (Rs.		tion	ı	Economics (Rs.		
Crop	Area	demonstrated	Variety	Farmers	(ha)	High	Dem Low	no Average	Check	in yield	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (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 &	Thematic	Name of the	No. of	Area		Yie	d (q/ha)		% Change		her neters	Ecoi	nomics of (demonstra /ha)	tion	Eco	nomics of	check (Rs.	./ha)
Crop	Area	technology	Farmers	(ha)	Hinh	Demo		Check	in Yield	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
Cereals					High	LOW	Average					Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Paddy	Integrated pest managemen t	IPM in paddy	10	4	50.20	47.10	49.40	47.10	6.4	49.40	47 .10	53200	163020	109820	3.06	45100	155430	101230	2.86
Waterlogged Situation																			
Coarse Rice																			
Scented Rice																			
Coomed race																			
Wheat																			
Wheat Timely sown	Varietical Evaluation	HYV of wheat- WB 02	2	0.8	48.10	48.90	48.50	44.20	8.86	48.50	44.20	34200	96480	77600	4.821	34250	88320	54070	2.578
	Varietical Evaluation	HYV of wheat WB- 02 with bio-fertilizers (Azotobactor+ PSB)	2	0.8	50.20	49.60	49.90	44.20	11.42	49.90	44.20	34200	99000	79840	2.894	34250	88320	54070	2.578
	<i>Variet</i> ical Evaluation	HYV of wheat WB 02 under tillage with rotavator	1	0.4	49.10	-	-	44.20	9.97	49.10	44.20	34200	97560	78560	2.852	34250	88320	54070	2.578
	<i>Variet</i> ical Evaluation	HYV of wheat- HPBW 01	5	2.0	48.20	46.40	47.60	44.20	7.14	47.60	44.20	34200	94560	60360	2.764	34250	88320	54070	2.578
	<i>Variet</i> ical Evaluation	HYV of wheat HPBW 01 with bio- fertilizers (Azotobactor+ PSB)	4	1.6	49.80	47.30	48.40	44.20	8.93	48.40	44.20	34200	96040	61840	2.808	34250	88320	54070	2.578
	<i>Variet</i> ical Evaluation	HYV of wheat HPBW 01	4	1.6	49.30	47.90	48.10	44.20	8.1	48.10	44.20	34200	95560	61360	2.794	34250	88320	54070	2.578

	under tillage with rotavator										23
Wheat Late Sown											
Mandua											
Barley											
Maize											
Amaranth											
Millets											
Jowar											
JOWAI											
Bajra			 								
Barnyard millet											
millet											
Finger millet											
i iliger illillet											
Vegetables											
Bottlegourd											
Bittergourd											
J											
					 						+
Cowpea											
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Spongegourd											
Petha											
Tomato									<u>:</u>		
Frenchbean											
Capsicum											
Chilli											
Cillii											
Brinjal				 							
Vegetable pea											
Softgourd											
Okra											
OKIG											
0-11-											
Colocasia (Arvi)											
Broccoli											
Broccoii											
Cucumber											
Onion											

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Bela													
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Tuberose													
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Gladiolus													Æ
Giaulolus													
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Fruit crops Mango													A .
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Strawberry													
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Cueva										 		 ļ	
Guava									 	 		 	ļ
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Banana													
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Papaya													
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Muskmelon													<u> </u>
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Watermelon			 											ļ
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Spices & condiments														
Ginger														
Garlic														<u> </u>
Turmeric														
Commercial														
Crops														
Sugarcane														
												 		
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Fodder Crops Sorghum (F)														
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^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

FLD on Livestock

Category	Thematic area	Name of the technology	No. of Farmer	No.of Units (Animal/	Major pa	rameters	% change		arameter		omics of d (Rs	.)		Е	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 Return	BCR (R/C)
Cattle																	
Buffalo																	
Buffalo Calf																	
Dairy																	
- 2,																	
Poultry																	
Sheep & Goat																	
Vaccination																	
]				<u> </u>

^{*} 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	rameters	% change in major	Other pa	rameter	Econo	mics of der	nonstratio	n (Rs.)		(F	s of check Rs.)	
Category	area	demonstrated	Farmer	units	Demons ration	Check	parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Not Poturn	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	Majo parame		% change in major	Other p	arameter	Econo	mics of de or Rs	monstratio ./unit	on (Rs.)			s of check Rs./unit	
	demonstrated			Demo	Chec k	parameter	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oyster Mushroom												, , , , , , , , , , , , , , , , , , ,				X/
Button Mushroom																
Apiculture																
Maize Sheller																
Maize Sheller																
Value Addition																
Vermi Compost																

FLD on Women Empowerment

	Category	Name of	No. of	Name of observations	Demonstration	Check	
		technology	demonstrations				
- 17							
				<u>.</u>	:		
			:	i e e e e e e e e e e e e e e e e e e e		:	
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FLD on Farm Implements and Machinery

ï	Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed obs (outpu hou	t/man	% change in major parameter	Labo	r reductior	n (man day	s)		Cost red /ha or Rs	uction ./Unit etc.)
							Demo	Check	,	Land preparatio n	Sowin g	Weedi ng	Total	Land preparat ion	Labou r	Irrigat ion	Total
ſ																	

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the	No. of Farmer	No. of Units	Yield (K	•	% change		arameters	Ecor	omics of o	lemonstrat ha)	ion	E	Economics (Rs./		
		technology demonstrat ed			Demons ration	Chec k	in yield	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
vegetables crops		:	10	10	143	-	-	143	-	1500/uni t	5400/unit	3900/unit	3.60:1	-	-	-	-

FLD on Demonstration details on crop hybrids (Details of Hybrid FLDs implemented during 2017-18)

	411	11-4-41	Nf			Yield (q/l	na)		0/ 1	Econo	mics of demo	onstration (Rs.	./ha)
Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)		Demo		Check	% Increase in yield	Gross	Gross	Net Return	BCR
	uemonstrateu	varioty	i dilliois	(114)	High	Low	Average	Check	III yiciu	Cost	Return	Net Return	(R/C)
Oilseed crop													
Pulse crop													
Cereal crop													
										•			
Vegetable crop													
Fruit crop													

Other (specify)							

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				I	Participan	ts			
	courses		Others			SC/ST		(Grand 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 conservation										
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	1				_		_			
Exotic vegetables	1	15	-	15	2	-	2	17	-	17
Export potential vegetables										
Grading and standardization	1	12	-	12	5	-	5	17	-	17
Protective cultivation										
Others (pl specify)										
Total (a)	2	27	-	27	7	-	7	34	-	34
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					-					
Plant propagation techniques										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants					-					
Propagation techniques of Ornamental Plants										
Others (pl specify)					-					
Total (c)					-					
d) Plantation crops					-					
Production and Management technology					-					
Processing and value addition					-					
Others (pl specify)					-					
Total (d)					-					
e) Tuber crops					-					
Production and Management technology					-					
Processing and value addition										
Others (pl specify)										
Total (e)					ļ					
f) Spices	1				1					
Production and Management technology	1				1					
									i	i
Processing and value addition										

				1			-	-	1	32
g) Medicinal and Aromatic Plants										
N										
Nursery management Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)	2	27	_	27	7	_	7	34	_	34
III Soil Health and Fertility Management		21		21	,		,	34		34
Soil fertility management	1	13	2	15	2	_	2	15	2	17
Integrated water management	1	13		13				13		17
Integrated Nutrient Management										
Production and use of organic inputs	1	18	2	20	2	_	2	20	2	22
Management of Problematic soils			_		_		_		_	
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing	2	30	7	37	4	-	4	34	7	41
Others (pl specify)										
Total	4	61	11	72	8	-	8	69	11	80
IV Livestock Production and Management								İ		
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	1	4	7	11	1	1	2	5	8	13
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	1	4	20	24	_	1	1	4	21	25
Gender mainstreaming through SHGs	1	-	20	24		1	1	-	21	23
Storage loss minimization techniques										
Value addition	1	1	17	18	_	_	_	1	17	18
Women empowerment		-	- 17	10				-	/	
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	3	9	44	53	1	2	3	10	46	56
VI Agril. Engineering				-					-	
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation										
systems	<u> </u>									
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and								T		
implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	3	49	-	49	6	-	6	49	6	55
Integrated Disease Management	1	15	-	15	2	-	2	15	2	17
Bio-control of pests and diseases										
Production of bio control agents and bio										
pesticides										
Others (pl specify)										

Total										33
Total										
VIII Fisheries	4	64	-	64	8	-	8	64	8	72
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										
	12	1/1		217	24	_	26	177	1	2.42
GRAND TOTAL	13	161	55	216	24	2	26	177	65	242

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of				J	Participan	ts			
	courses		Others			SC/ST			Grand 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										

										34
Soil & water conservatioin										
Integrated nutrient management										
Integrated nutrient management Production of organic inputs										
Others (pl specify)										
Total										
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	5	50	-	50	38		38	88	0	88
Off-season vegetables	1	2		2	16		16	18	-	18
Nursery raising	1		_		10		10	10	_	- 10
Exotic vegetables										
Export potential vegetables										
Grading and standardization	1	20	_	20	5		5	25	-	25
Protective cultivation	1									
Others (pl specify)										
Total (a)	7	72	-	72	59	_	59	131	-	131
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	1	18	-	18	4	_	4	22	-	22
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	1	18	-	18	4	-	4	22	-	22
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)		20						4.50		
GT (a-g)	8	90	-	90	63	-	63	153	-	153
III Soil Health and Fertility Management										
Soil fertility management	1	1.0		1.0			_	10		10
Integrated water management	1	16	-	16	2	-	2	18	-	18
Integrated Nutrient Management	2	28	4	32	4	-	4	32	4	36
Production and use of organic inputs	1	5	-	5	15	6	21	20	6	26
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nothing Line ECC along										ļ
Nutrient Use Efficiency	1	-			1.5		1.7	20	+	20
Nutrient Use Efficiency Balance use of fertilizers Soil and Water Testing	1 2	5 20	- 18	5 38	15	- 2	15	20 22	20	20 42

										35			
Others (pl specify)													
Total	7	74	22	96	38	8	46	112	30	142			
IV Livestock Production and Management													
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	1	-	20	20	-	-	-	-	20	20			
Designing and development for high nutrient													
efficiency diet													
Minimization of nutrient loss in processing													
Processing and cooking	1	-	20	20	-	3	3	-	23	23			
Gender mainstreaming through SHGs	2	-	40	40	-	1	1	-	41	41			
Storage loss minimization techniques	2	-	47	47	-	2	2	-	49	49			
Value addition	1	-	31	31	-	1	1	-	32	32			
Women empowerment	1	-	18	18	-	-	-	-	18	18			
Location specific drudgery reduction technologies									ĺ				
Rural Crafts	1	-	24	24	-	4	4	- 1	28	28			
Women and child care	1	-	10	10	-	12	12	-	22	22			
Others (pl specify)													
Total	10	- 1	210	210	-	23	23	-	233	233			
VI Agril. Engineering													
Farm Machinary and its maintenance													
Installation and maintenance of micro irrigation													
systems													
Use of Plastics in farming practices								Ì					
Production of small tools and implements													
Repair and maintenance of farm machinery and													
implements													
Small scale processing and value addition													
Post Harvest Technology													
Others (pl specify)													
Total													
VII Plant Protection													
Integrated Pest Management	5	82	_	82	9	1	10	91	1	92			
Integrated Disease Management		02		02			10	/1	1	72			
Bio-control of pests and diseases													
Production of bio control agents and bio													
pesticides													
Others (pl specify)													
Total	5	82	_	82	9	1	10	91	1	92			
VIII Fisheries	3	02	-	02	,	1	10	71	1)2			
Integrated fish farming													
Carp breeding and hatchery management													
Carp fiveding and flatenery management Carp fry and fingerling rearing													
Composite fish culture													
^													
Hatchery management and culture of freshwater													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
FOLIADIE DIASHE CATD NAICHERV													
		+	ĺ										
Pen culture of fish and prawn													
Pen culture of fish and prawn Shrimp farming													
Pen culture of fish and prawn Shrimp farming Edible oyster farming													
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture													
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition													
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture													

IX Production of Inputs at site										36
0.10.1.6										
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	30	246	232	418	110	32	142	356	264	620

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

Thematic area	No. of	Participants									
	courses	Others			SC/ST			Grand Total			
		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	5	50	-	50	38	-	38	88	-	88	
Off-season vegetables	1	2	-	2	16	-	16	18	-	18	
Nursery raising	1	15	-	15	2	-	2	17	-	17	
Exotic vegetables	1	20	-	20	5	-	5	25	-	25	
Export potential vegetables	1	12	-	12	5	-	5	17	-	17	
Grading and standardization											
Protective cultivation											
Others (pl specify)											
Total (a)	9	99	-	99	66	-	66	165	-	165	

							1			37
b) Fruits										
Twining and Duming										
Training and Pruning Layout and Management of Orchards	1	18		18	4		4	22		22
Cultivation of Fruit	1	18		10	4	-	4	22	-	
Management of young plants/orchards Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	1	18		18	4		4	22		22
c) Ornamental Plants	1	10	-	10	7	-	-	22	-	22
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)	10	117	-	117	70	-	70	187	-	187
III Soil Health and Fertility Management										
Soil fertility management	1	13	2	15	2	-	2	15	2	17
Integrated water management	1	16	-	16	2	-	2	18	-	18
Integrated Nutrient Management	2	28	4	32	4	-	4	32	4	36
Production and use of organic inputs	2	23	2	25	17	6	23	40	8	48
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers	1	5	-	5	15	-	15	20	-	20
Soil and Water Testing	4	50	25	75	6	2	8	56	27	83
Others (pl specify)										
Total	11	135	33	168	46	8	54	181	41	222
IV Livestock Production and Management										
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	1	4	7	11	1	1	2	5	8	13

										38
Design and development of low/minimum cost diet	1	_	20	20	_	_	-	_	20	20
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking	2	4	40	44	-	4	4	4	44	48
Gender mainstreaming through SHGs	2		40	40	_	1	1	-	41	41
Storage loss minimization techniques	2	-	47	47	-	2	2		49	49
Value addition	2	1	48	49			1	1	49	50
				18	-	1				
Women empowerment	1	-	18	18	-	-	-	-	18	18
Location specific drudgery reduction technologies	1		2.4	2.1		4	4		20	20
Rural Crafts	1	-	24	24	-	4	4	-	28	28
Women and child care	1	-	10	10	-	12	12	-	22	22
Others (pl specify)	- 12			2 / 2			2.5	10		• • • •
Total	13	9	254	263	1	25	26	10	279	289
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation										
systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and										
implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	8	131	-	131	15	1	16	140	7	147
Integrated Disease Management	1	15	_	15	2	_	2	15	2	17
Bio-control of pests and diseases		- 10						10		
Production of bio control agents and bio										
pesticides										
Others (pl specify)										
Total	9	146	_	146	17	1	18	155	9	164
VIII Fisheries		170	-	170	17	1	10	133		107
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										3)
ongree of a second of the second										i
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	43	407	287	694	134	34	168	533	329	862

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

	No. of				No. of	Participants				
Area of training	Courses	37.1	General	7D ()	37.1	SC/ST	TC 4 1	36.1	Grand Total	75 4 1
Nursery Management of	1	Male 18	Female 2	Total 20	Male 1	Female -	Total 1	Male 19	Female 2	Total 21
Horticulture crops	1	10	2	20	1	-	1	19	2	21
Training and pruning of										
orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production	1	1.6		1.6	2		2	10		10
Vermi-culture	1	16	-	16	2	-	2	18	-	18
Mushroom Production	1	15	2	17	1	-	1	16	2	18
Bee-keeping	1	16	1	17	3	-	3	19	1	20
Sericulture										
Repair and maintenance of										
farm machinery and										
implements										
Value addition	1	8	10	18	1	1	2	9	11	20
Small scale processing	1	10	7	17	-	-	-	10	7	17
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	6	83	22	105	8	1	9	91	23	114

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

	No of				No. of	Participants	6			
Area of training	No. of Courses		General			SC/ST	1		Grand Total	
27	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of										
Horticulture crops										
Training and pruning of										
orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of										
farm machinery and										
implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching								Ì		
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			1					1	1	<u> </u>
Any other (pl.specify)								-		
TOTAL										

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

	N. C				No. of	Participants	i			
Area of training	No. of Courses		General			SC/ST			Grand Total	
_	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of	1	18	2	20	1	-	1	19	2	21
Horticulture crops										
Training and pruning of										
orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture	1	16	-	16	2	-	2	18	-	18
Mushroom Production	1	15	2	17	1	-	1	16	2	18
Bee-keeping	1	16	1	17	3	-	3	19	1	20

Sericulture										
Repair and maintenance of										
farm machinery and										
implements										
Value addition	1	8	10	18	1	1	2	9	11	20
Small scale processing	1	10	7	17	-	-	-	10	7	17
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	6	83	22	105	8	1	9	91	23	114

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

	No. of				No.	of Particip	ants			
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	1	-	20	20	-	-	-	-	20	20
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	1	_	20	20	-	-	-	-	20	20

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

	No. of				No.	of Particip	ants			
Area of training	Courses		General			SC/ST		(Frand 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					

$Training\ programmes\ -\ CONSOLIDATED\ (On\ +\ Off\ campus)$

	No. of				No.	of Particip	ants			
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	1	-	20	20	-	-	-	-	20	20
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	1	-	20	20	-	-	-	-	20	20

Table. Sponsored training programmes

	No. of Courses				No. of	Participa	nts			
Area of training	Courses		General			SC/ST		(Grand Tota	ıl
		Male	Female	Total	Male	Female	Total	Male	Female	Total
										<u> </u>
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)										
Skill development Training Programme on Gardner	4	75	18	93	7	-	7	82	18	100
Skill development Training Programme on Mushroom	1	15	3	18	2	-	2	17	3	20
Total	5	90	21	111	9	-	9	99	21	120
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										
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	5	90	21	111	9	-	9	99	21	120

Name of sponsoring agencies involved: NHRDF under MIDH

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

Area of twaining	No. of	No. of Participants								
Area of training	Courses	General			SC/ST				Grand Tota	
		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					Ì					
Seed production					Ì					
Sericulture										
Mushroom cultivation	 		1						 	
Nursery, grafting etc.									 	
Tailoring, stitching, embroidery,	+		1						 	
dying etc.			1						1	
Agril. para-workers, para-vet training	 		1						 	
Others (pl. specify)	+		1						 	
Total	+		1						 	
Agricultural Extension	+		+						 	
Capacity building and group	+		+						 	
dynamics										

Others (pl. specify)					
Total					
Grand Total					

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	421	839	4	843
Diagnostic visits	131	137	-	137
Field Day	3	102	4	106
Group discussions	2	24	2	26
Kisan Ghosthi	2	126	17	143
Film Show	43	1075	-	1075
Self-help groups	40	487	3	490
Kisan Mela	-	-	-	-
Exhibition	4	1019	11	1030
Scientists' visit to farmers field	205	313	-	313
Plant/animal health camps	-	-	-	- 40
Farm Science Club Ex-trainees Sammelan	2	40		40
Farmers' seminar/workshop	- 1	430	20	450
Method Demonstrations	10	183	6	189
Important Week/Days celebrated	10	165	U	109
1	4	93		93
i. Parthenium Week (1-7Aug., 2017) ii. National Nutrition Week (1-7 Sept., 2017)	3	65	4	69
(r.,	1	250	4	254
iii. World Soil Day (5 Dec, 2017)	1	56	1	57
iv. World Honey Bee Day (19 Aug., 2017)	1	36	4	40
v. World Breast Feeding week (1-7 Aug., 2017)	1	50	1	51
vi. International Yoga Day (21 June, 2017)	1	13	1	14
vii. Mahila Kisan Diwas (15 Oct., 2017)				
Special day celebration	_	1.50	1.0	166
Sankalp se sidhi programme	1	156	10	166
Exposure visits	21	266	-	266
Others (pl. specify)		125		125
Soil testing campaign	6	135	-	135
Farmers visit to KVK	498	492	6	498
Lecture delivered	8	222	6	228
Seed treatment campaign	7	101	-	101
Total	1417	6710	104	6814

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	1
Extension Literature	9
News paper coverage	15
Popular articles	1
Radio Talks	6
TV Talks	22
Animal health amps (Number of animals treated)	-
Others (pl. specify)	-
Total	52

Mobile Advisor Services

N 0	Message Type	Type of Messages								
Name of KVK		Crop	Livestock	Weather	Marke- ting	Aware- ness	Other enterprise	Total		
	Text only	22	1					23		
KVK, Delhi	Voice only									
	Voice & Text both									
	Total Messages	22	1					23		
	Total farmers Benefitted	3793	967					4760		

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

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

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

Production of seeds by the KVKs*

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Wheat	HD 2967				
Oilseeds	Mustard	Pusa Vijay				
Pulses						
Commercial crops						
Vegetables	Palak	Pusa All Green				
	Sarson Sag	Sarson Sag				
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others						
Total						

^{*}Under process

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings	Tomato	A Rakshak	_	1000	2000	
	Brinjal	_	Nav Kiran	350	700	
		K-2		500	1000	
		NHRDF L-28		10kg	1000	
		Pusa Kartik		250	500	
	Cabbage		S-65	350	700	
Fruits	- uccuge				, , , ,	
Ornamental plants						
p.m.s						
Medicinal and Aromatic	Aloe vera			200	200	
Wiedemai and Anomatic	7 Hoc vera			200		
Plantation						
Tantation						
Cuisas						
Spices						
T. 1						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total						

Production of Bio-Products

	Name of the bio-product	Quantity		
Bio Products		Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers				
				1
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	K			
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.)	No. of soil health cards distributed
Soil	252	252	25	-	252
Water	103	103	20	-	-
Plant	131	131	19	-	-
Manure					
Others (pl.specify)					
Total					

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Date of SAC Meeting	Participants
KVK, Ujwa	28/3/2018	17

IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution		
Krishi Vahini	500		

X. PUBLICATIONS

Category	Number
Research Paper	-
Technical bulletins	
Technical reports	3
Others (pl. specify)	
training Mannual	3
Book	2
Popular Articles	1

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

Activities conducted							
No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers	Visit by officials			
	(No.) (No.)						
1	5	-	2300	20			

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

Introduction of alternate crops/varieties

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

Major area coverage under alternate crops/varieties

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

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants	
m · l			
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 d	lays	Farmers f	air	Exhibition		Film sl	now
	No.	No.of	No.	No.of	No.	No.of	No.	No.of	No.	No.of	No.	No.of
		farmers		farmers		farmers		farmers		farmers		farmers
Total												

XIII. DETAILS ON HRD ACTIVITIES

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

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

B. HRD activities organized in identified areas for KVK staff by ATARI

Title of the training programmes	No of program mes	No. of Participan ts	No. of KVKs involved
State level Mid-Review and Planning workshop (2018-19) is scheduled to be held at CCSHAU, Hisar on 4th January 2018.	1	-	
Training on Production Technology for Rabi Oilseeds Crops under National Mission on Oilseed and Oil Palm from 7-8 th December, 2017	1	29	
Sensitization Training on Public Finance Management System for KVKs of Rajasthan, Haryana and New Delhi organized on 9 th November, 2017 at ICAR- ATARI Jodhpur	1	48	
Orientation-cum-sensitization meeting for KVKs of Haryana and Delhi On 30 th June, 2017	1	-	
Total	4	77	

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: KVK, Ujwa, New Delhi Title: Mushroom Production
General information about the farmer:

Sr	Particulars	
No		
1	Name of Farmer	Rajesh Kumar Bhardwaj
2	Father's Name	Abhay Raj
3	Address	Vill and P.O. Wazidpur, District, North Delhi, New Delhi-110062
4	Age(Years)	42
5	Mobile No.	9654745001
6	Qualification	8 th pass
7	Land holding(Acres)	1.0 irrigated

Introduction

Although very little educated yet Sh. Rajesh Kumar Bhardwaj is one of the most progressive farmer in the field of mushroom production. He learnt ABC of farming from his father, who used to grow field crops such as rice, wheat, mustard, paddy and berseem etc. on his whole land to ensure livelihood and family expenditure as well as for the fulfillment of dry and green fodder for animals. In addition to this, he is rearing one cow and one buffalo.

KVK intervention

Sh. Rajesh Kumar Bhardwaj was engaged in traditional farming with his father. He wanted to increase his income by adopting some other business to uplift the livelihood, as the income from his is very low by growing simple food gain crops. During September 2012 he visited KVK Ujwa and discussed his problem with KVK scientists. The Scientist of KVK suggested him to adapt mushroom cultivation as the straw of his farm can be utilize for preparation of compost He attended a training programme for mushroom production which was organized by KVK, Ujwa, new Delhi for farmers in year 2012-13. Scientist of KVK, Ujwa, Delhi provided him the latest technology for the micro-enterprises mentioned above. In the beginning, Mr. Rajesh Kumar Bhardwaj He established a small mushroom production unit during the end of the year 2013 in the area of 62 m².

Output

The average net income from his unit is Rs. Rs. 3.25 lakhs from selling of fresh mushroom per year. The milk obtained from his animals fulfilled his own family needs and provided net annual profit of Rs. 20000/-. He continuously remained in contact with the scientist of KVK, Ujwa for the technical knowhow and line department of Govt. to avail benefit of various schemes and with his great efforts and hard work with timely technical support from KVK his net income is increasing day by day. Now several other farmers of his village and nearby villages (Tigipur, Bhaktwarpur, Palla) taking regular advice from him for mushroom production.

Outcome

In the year 2013-14 Sh Rajesh Kumar Bhardwaj started to prepare the compost using his own farm wheat straw of the and constructed a permanent shed for mushroom cultivation. Presently he has increased his production capacity with an area 4000 m2 and producing tones of mushroom. The marketing was done through direct marketing in local place. The mushroom is being sold @ Rs 100/- kg and earn Rs. 3.5 lacs annually while earlier he was earning only Rs. 70000 to 80,000 annually through traditional farming.

Impact

By adopting the occupation of mushroom he has not only fulfilled the need of his families but also giving the better education to his children and Mushroom production has changed his life by improving his standard of living. Sh. Rajesh Kumar Bharadwaj is completely involved in mushroom cultivation throughout the year. The success may allow him to relish his entrepreneurship skills to go beyond subsistence and local trade.

Sh. Rajesh Kumar Bharadwaj is of the view that one who can take moderate risk and has attitude of sincerity, devotion and commitment to work is bound to get success.

2. Title: Beekeeping

General information about the farmer:

Sr	Particulars	
No		
1	Name of Farmer	Parful Arya
3	Address	Vill and P.O. Pitampura, District- North Delhi, New Delhi-110034
4	Age(Years)	26
5	Mobile No.	9810565790
6	Qualification	B. Tech (IT)

Introduction

Mr. Parful Arya a young beekeeper from Pitampura north Delhi, started beekeeping during his study when getting his education in bachelor of information technology. He has no parental land with him. Since 2015 Mr. Arya doing beekeeping after getting the vocational training from Krishi Vigyan Kendra Delhi.

Intervention

Mr. Parful Arya came in contact with KVK, Ujwa Delhi with problem of unemployment and poor economic status of the family. After meeting the KVK scientist he was motivated to took the training from KVK and then adopt the beekeeping profession. In 2015 he got the training from KVK, Ujwa, Delhi and got the technical knowledge of beekeeping honey processing, packaging, marketing, multiplication of bees, role of honey bee in pollination and crop productivity enhancement etc. Mr. Parful Arya was regularly trained formally as well as informally on various aspect of bee farming.

Output

Mr. Parful Arya started beekeeping using recommended technical practices of KVK with fifty beehives purchased from local beekeeper @ Rs. 2000 in 2015. He gradually increased beehive every year and has increased bee colonies to 300 with the income of Rs. 6.40 lakhs annually by the year 2017-2018. He has refined his skill of honey production, queen rearing, mass multiplication, beekeeping management, other bee product and adopted options that reduced cost of cultivation.

Outcome

About 2-3 family member and relatives are employed round the year in beekeeping profession. Now He is a leading migratory honey cultivator in Dehradun region. He is harvested honey from multiflora like mustard, sunflower and forest plant. He has registered a firm namely M/S little honey industries in North Delhi with net profit of Rs. 6.40 lac.

Impact

Bee farming has brought prosperity in Mr. Parful Arya family and village Pritampura due to adoption of this technology by several farmers / rural youths. The production of mustard, multiflowera, sunflower was increased 15-20% in the village due to pollination by the honey bees. Introduction of medium duration forest plant in the village by villagers for availability of the flora beekeeping increased economics and social status the farmers.

XIII. STATUS REVOLVING FUNDS

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2015 to March 2016	64.39	8.82	4.58	68.63
April 2016 to March 2017	68.63	6.90	1.35	74.18
April 2017 to March 2018	74.18	7.23	2.20	79.21

Note: Themes of livestock FLDs and OFTs for Annual Progress Report 2017-18 The FLDs and OFTs under livestock may be classified as per themes given below for APR

		5 c c c c c c c c c c c c c c c c c c c
SN	Theme	Different aspects to be covered
01	Animal Breeding	Evaluation or introduction of any livestock breed i.e.
	Management	cattle, buffalo, sheep, goat, poultry etc. Improvement in
		fertility, reproductive traits i.e. Age at first calving,
		service period and calving interval etc
02	Animal Nutrition	Feed and fodder trials including feed additives, bypass fat
	Management	and protein, colostrum feeding, mineral mixture, chelated
		mineral mixture, azolla, microbial feeds (probiotics etc),
		urea treated straws and UMMB or feed supplements etc
03	Animal Production	Type of housing provided, manger or water trough etc to
	Management	the livestock for improving animal comfort and measures
		followed for clean milk production etc
04	Health and Disease	Deworming of all categories of livestock for control of
	Management	endo-worms and ecto-parasites, vaccination and to
		reduce the calf mortality, mastitis incidence in livestock
		etc
05	Others, if any	Any other aspect which is not covered under above 4
		themes mentioned can be put in this category.