PROFORMA FOR ANNUAL REPORT 2014-15

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Nafed complex, Village & Post -Ujwa, New Delhi - 110073	011-65638199	011-28525129	*kvkujwa@yahoo.com* *Website: www.kvkdelhi.org*

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

Address	Telephone		E mail
	Office	FAX	
National Horticultural Research & Development Foundation (NHRDF), Chitegaon Phata, Post: Darna Sangavi Taluka: Niphad , Distt. Nashik, Maharashtra, Pin: 422003	02550-237551, 237816, 202422	02550-237947	*nhrdf_nsk@sancharnet.in* *nasik@nhrdf.com*

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Sh. R. K. Yadav	Nil	9818087979	rkyadavdelhi@rediffmail.com

1.4. Year of sanction: 1995

1.5. Staff Position (as on 31st March 2015)

Sl. No.	Sanctioned post	Name of the incumbent	Age	Discipline with highest degree obt.	Pay Band & Grade Pay (Rs.)	Present basic (Rs.)	Date of joining in KVK	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	R. K.Yadav	57	Agriculture Engineering	37400-67000 +GP 9000	53820	14.12.06	Temporary	Others
2	Subject Matter Specialist	Ritu Singh	41	Home Science	15600-39100 +GP 5400	27420	10.02.05	-do-	-do-
3	Subject Matter Specialist	Dr. D. K. Rana	39	Plant Pathology	15600-39100 +GP 5400	23640	5.05.10	-do-	-do-
4	Subject Matter Specialist	Rakesh Kumar	40	Horticulture	15600-39100 +GP 5400	27420	22.09.05	-do-	-do-
5	Subject Matter Specialist	Dr. Himanshu Pandey	36	Animal Husbandry	15600-39100 +GP 5400	21000	9.06.08	-do-	-do-
6	Subject Matter Specialist	Dr. Y.P. Singh	38	Agriculture Extension	15600-39100 +GP 5400	24350	12.05.08	-do-	-do-
7	Subject Matter Specialist	Vacant*	-	Agronomy	15600-39100 +GP 5400	-	-	-	-
8	Programme Assistant	Brijesh Yadav	32	Soil Science	9300-34800 +GP 4200	13500	17.02.14	-do-	-do-
9	Computer Programmer	Manju	34	Computer Science	9300-34800 +GP 4200	16140	2.05.08	-do-	-do-
10	Farm Manager	M.P.Singh	49	Agriculture	9300-34800 +GP 4200	17780	28.02.05	- do-	-do-
11	Accountant / Superintendent	V. K. Dixit	52	Administration and accounts	9300-34800 +GP 4200	21640	21.10.05	-do-	-do-
12	Stenographer	Atma Ram	47	Administration	5200-20200 +GP 1900	10190	10.02.05	-do-	-do-
13	Driver	Rajesh Kumar	40	Jeep Driver	5200-20200 +GP 1900	9320	02.02.05	-do-	-do-
14	Driver	Krishan	44	Tractor Driver	5200-20200 +GP 1900	9260	02.05.08	-do-	-do-
15	Supporting staff	Mahavir Singh	50	Administration	4440- 7440 +GP 1300	7950	10.02.05	-do-	-do-
16	Supporting staff	Ramesh Chander	43	Administration	4440- 7440 + GP 1300	7950	10.02.05	-do-	-do-

*Application s received in response to advertisement in Employment News & Indian Express

6. Total land with KVK (in ha) :**14.9**

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)	1.0

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	17.2.2011	548.3	54,38,664/-			
2.	Farmers Hostel							
3.	Staff Quarters							
	1							
	2							
	3							
	4							
	5							
	6							
4.	Demonstration Units							
	1							
	2							
	3							
	4							
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**	Not good
Scooter	1995	21818	200*	Not good
Motorcycle	2000	47063	51784	Not good
Jeep	2005	491892	202692	Not good

*Meter replaced; **Meter not working

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Air conditioner - 1	1999	27500	Working
Harrow – 1	1999	8600	Working
Refrigerator - 1	1999	9400	Good
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

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	Good
LCD multi media player	2007	97000	Good
Speaker Sound Colum- 2	1999	2043	Working
Microphone-1	1999	1278	Working
Heat Convector	2000	1875	Working
Cultivator-1	1997	1672	Working
Tractor trolly-1	1998	11000	Working
Screen-1	1995	1120	Working
Modem-1	1999	3900	Not Working
Modem-1	2007	2850	Working
Printer -1	2009	1850	Working
Printer -1	2010	7035	Working
UPS-1	2009	1700	Working
UPS-2	2009	6195	Working
UPS -1	2011	1785	Working
Soil Testing kit-1	2009	1000	Working
Scanner -1	2010	4148	Working
Speaker-1	2010	1733	Working
Photocopier Machine-1	2011	97165	Working
Gen Set -1	2011	59000	Working
Laptop -1	2011	36170	Working
Submercible Pump-1	2011	148713	Working
Small autoclave	2012	59805	Working
Hot air oven	2012	40014	Working
Laminar flow	2012	70110	Working
Colony counter	2012	5472	Working
BOD incubator	2012	95760	Working
Microscope	2012	35850	Working
Refrigerator	2012	34000	Working
Electric balance	2012	44000	Working
Water distillation	2012	29500	Working
pH meter	2012	17500	Working
EC meter	2012	18700	Working
Spectrophotometer	2012	34800	Working
Flame photometer	2012	54000	Working
Computer	2012	34000	Working
Air conditioner	2012	39000	Working
Laptop	2012	37000	Working
UPS	2012	2200	Working
Sprit lamp-2	2012	150	Working
Hygrometer	2012	450	Working
Insect collection box	2012	1720	Working
Planker (wood pata with chain)	2012	2300	Working

1.8. A). Details SAC meeting* conducted in the year 2014-15

Sl. No.	Date	Name and Designation of Participants	No. of absentees	Salient Recommendations	Action taken
1.	11.6.2014	• Dr. Bijender Singh President, NHRDF • Dr. R. P. Gupta Director, NHRDF • Dr. S. Prabhukuamar, Zonal Project Director, Zonal Project Directorate, Zone –I, ICAR • Dr. S.S. Siwach Director, Extension CCSHAU, Hisar • Dr. B.S. Sheokand Director Extension Eductation LLR UAS, Hissar • Sh. Dalbir Singh & Sh. CP Singh, Office of the Joint Director (Agriculture) Govt. NCT, Delhi • Dr. Sahdev Singh Directorate of Animal Husbandry, Delhi -110005 • Mrs. Veena Sehgal Doordarshan Kendra, New Delhi-110001 • Dr. BP Upadhyay, Office of the Director (Fisheries) Govt. of NCT, Delhi • Sh. AP Saini, Office of Director (Hort), Delhi • All india radio Aakashwani Bhawan, Sansad Marg, New Delhi- 110 001 • Sh. Kunal Gahlot, Head Bhoomi Putra Kisan Club • Sh. Raghunath Singh, Head New Dabur Kisan Club, Ghumenhera, New Delhi • Sh. Ram Kumar, Dabur Kisan Club, V ill. Galibpur, • Mrs. Ritu Singh SMS (HS), KVK, Ujwa, New Delhi • Sh. Rakesh Kumar SMS(Hort.), KVK, Ujwa, New Delhi • Dr. H. Pandey SMS(AH), KVK, Ujwa, New Delhi	3	The Action Taken Report should have complete details of follow up of the issues describing concrete steps involving technical, administrative and financial issues and its outcome.	Noted for compliance
				Presentation should be made in Hindi language so that the Hon'ble Farmer Members of the Committee should also get themselves acquainted with the activities of the KVK, Ujwa.	Noted for compliance
				Issue of establishment of a Demonstration Unit on Fisheries should be re-examined based on the discussions held in the meeting and, its technicalities and economics should also be further discussed with the concerned scientists and action be taken accordingly.	SMS (AH) Visited CIFE Rohtak & discuss with Dr. V.Harikrishna , Incharge about Technical and economic points
				KVK should give the details of the activities and programmes undertaken for promoting IPM in Yamuna River bed. The details of impact of the activities should also be given.	FLD (6) & Training (1) conducted in yumana river bed during the year 2014-15
				The KVK should take the help of Dept. of Agriculture, NCT, Delhi, if required, for sampling of the vegetables from the Yamuna River bed area and send to the H.Q. of the NHRDF for testing of pesticide residues.	• Contacted Dept of agriculture and State Grading Laboratory (F&V), Directorate of Agriculture Marketing, Govt. of NCT of Delhi regarding the sample size etc List of vegetables (Summer season) being sent to HQ NHRDF, Nasik for further necessary action

		• Dr. Devender Rana SMS (PP), KVK, Ujwa, New Delhi • Mr. Jitender Kumar SMS (Agro.)), KVK, Ujwa, New Delhi • Sh. Brijesh yadav, PA (SS), KVK, Ujwa, New Delhi • Sh. V. K. Dixit OSCA , KVK, Ujwa, New Delhi • Sh. R. K. Yadav, PC, KVK, Ujwa, New Delhi		The concerned S.M.S. of the KVK should visit the websites of IIVR, IIHR, IARI and CCSHAU, see the vegetable hybrids developed by them and find out the recommended hybrids of different vegetables for NCT, Delhi. Accordingly, the Project Co-ordinator, KVK, Ujwa should approach to the concerned institutes for supply of a particular vegetable seed by mentioning the name of the hybrid. The Centers of the NHRDF should be requested for pursuance with the nearby institutes for supply of the seed. The cost of the hybrid seed, if any, will be paid by the KVK after getting invoice from the concerned institute / SAU.	Visit to website & nearest institute IARI, Pusa regarding hybrid vegetables for OFT & FLD. Pusa Kartik Sanker Cauliflower taken under FLD
				KVK should survey the areas where they are going to take up the FLDs on nutritional aspects of kitchen-gardening, find out the deficiency of nutrition amongst the villagers and accordingly include the vegetables in its kitchen-gardening	Based on the surved data on nutritional status of NCT Delhi of rural population FLD conducted focusing growing of those fruits & vegetables like palak, dhania, radish, methi, sarson, cabbage,lemon, papaya etc) rich in nutrients(iron & vit. A) required in the area
				For improving the breeds of milch animals, it was suggested to identify good bulls in the area and encourage its owners and cattle farmers to arrange servicing of cows/buffaloes with the bulls.	• Identified Murrah buffalo bull in village Dichaukalan • Kvk conducted animal breed improvement campaign in three villages of Delhi • After campaign some farmers reach to

					dichaukalan for serving of buffaloes
				The KVK should conduct FLDs on seed production of improved varieties by following the Seed Village Concept.	FLD conducted in different villages for seed production
				It was also suggested that since the land cost of NCT is very high, it would not be advisable to take up the FLDs on general crops like cereals and oil seeds. Therefore, the FLDs should be taken on high value vegetable crops which will give more income to the farmers. The KVK should select such crops accordingly.	Arrange awareness programme i.e. field visit, trainings, distributed extension literature about grow more vegetable & flowers.
				Presentation should be made in Hindi language and it should be subject-wise ensuring that it is having the prospective of farmers.	Noted for compliance
				The soil should be tested before arranging the OFT/FLD on nutritional aspects	Soil sample collected for soil test before conduct OFT & FLD
				Trichoderma viride should be taken as a treatment for control of damping off in tomato instead of *Trichoderma harzinium.*	OFT conducted on *Trichoderma harzinium.*
				Wheat variety PBW-343, which is susceptible to rust disease should be discouraged amongst the farmers by the KVK.	Introduced newly released variety HD 2967 & WH 1105
				Include Karknath or Vanraja in FLDs on Backyard Poultry instead of Rodowhite.	Vanraja included in FLD Backyard Poultry instead of Rhodowhite
				KVK should open one counter in Bagwani Bhawan of the NHRDF to sell different kinds of seeds to help the urban people of Delhi for growing better quality vegetables in their kitchen-gardens.	Action taken
				The KVK should compile the details of its activities and achievements made in the last 20 years and publish the same as an official document.	Compiled the information

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

2. DETAILS OF DISTRICT (2014-15)

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

S. No	Farming system/enterprise	
1	Irrigated (borewell)	Bajra/Fodder-Mustard/Wheat; Paddy-wheat;

		Vegetables-Vegetables
2	Irrigated (canal)	Paddy-wheat, Vegetable-Vegetable
3	Tank Irrigated	-
4	Rainfed	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, high temperature during summer (up to 48 degree C) Very low temperature during winter (up to 2 degree C), frost occur once or twice in the season.
2	**Agro ecological situation**	**Characteristics**
	Agro-eco situation-9 Agro-ecological region -4, Agro-ecological sub region -4.1	Alluvial derived soil comprise the northern Indo-Gangatic plains

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 range of crops can be grown but constraint is saline irrigation water.	49702

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

S. No	Crop	Area (ha)	Production (Qtls)	Productivity (Qtls /ha)
1.	I. Paddy	6068	296520	43.22
	II. Wheat	19450	848020	43.60
	III. Barley	65	1830	28.28
	IV. Bajra	1519	38150	18.78
	V. Maize	37	8280	19.50
	VI. Jowar	3319	300820	9.66
	VII. Gram	44	530	14.77
	VIII. Potato	689	146520	164.48
	IX. Oilseed	950	*	*
	X. S. Cane	3	2260	752.35
	Total	**32144**	**1642930**	**1094.64**
2.	Vegetable (Gross area)+	13280	145900	*
3.	Flowers (Gross area)+	5500	104370	*

Source: Development Department, Govt. of NCT Delhi; * Data not available in the Department; + source NHB.

2.5. Weather data

Month	*Rainfall (mm)*	*Mean monthly Temperature ^{0} C*		*Mean monthly Relative Humidity (%)*	
		Minimum	*Maximum*	*Morning*	*Evening*
April, 2014	0	19.7	34.6	64.1	24.1
May	22	24.2	38.3	51,1	20.2
June	32.5	28.6	41.5	32.0	66.2
July	134	27.3	36.2	56.4	84.4
August	101	26.7	36.1	51.5	80.9
September	53.5	25.5	34.3	53.8	87.0
October	0	21.3	32.1	42.0	85.9
November	0	18.4	29.6	30.2	86.1
December	6.0	8.7	21.5	44.6	90.0
January, 2015	15	8.6	18.1	58.5	97.3
February.	0	12.5	25.9	44.0	91.6
March	87	15.5	26.6	50.5	93.4
Total	**451**	**237.0**	**374.6**	**578.7**	**907.2**
Mean	**NA**	**19.8**	**31.2**	**48.2**	**75.6**

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

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Najafgarh Narela Shahadra	Najafgarh, Palam Alipur Narela Shahadra	Kair, Shikarpur, Ghogha, Tigipur, Samaspur Jagir	Wheat, Paddy, Bajra, Fodder, Mustard , vegetables & Dairy animals	• Salinity of water. • Poor soil fertility & health • Disease & pest infestation. • Low productivity in dairy animals. • Post harvest losses in cereals and vegetables crops. • Wide spread micro-nutrient deficiency among rural youths & rural women. • Endo-ecto parasites in animals. • Drudgery and safety concerns in farm work. • Poor adaptability of seed treatment. • Non availability of quality seeds and agricultural inputs.	• Integrated disease & pest management. • Weed management. • Popularization of improved varieties of Paddy, wheat & mustard • Soil fertility management. • Integrated Nutrient Management in vegetables. • Balance feeding in dairy animals. • Location specific drudgery reduction. • Value addition of locally grown crops. • Nutritional awareness

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Wheat & Mustard	Popularization of HYV, Water salinity management, Weed management, Storage loss minimization techniques
Paddy	Weed management, Integrated Pest Management, Nutrient Management
Vegetables (cucurbits, cauliflower, onion & tomato)	Integrated Pest Management, Post harvest management, weed and Nutrient Management, seed treatment, nursery raising
Animal Husbandry	Nutrient, Disease & Feed Management in milch animals
Fruits (aonla, karonda, guava & papaya)	Selection of good planting material, disease management & value addition
Women in Agriculture	Popularization of location specific drudgery reducing tools, preservation of fruits & vegetables, strengthening of SHG's, Health and nutrition awareness and promotion of kitchen garden
Agri-based enterprise	Entrepreneurship development in agriculture (value addition, dairy, nursery raising of vegetable crops, mushroom cultivation & bee keeping) strengthening of farmers clubs & SHG's

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2014-15

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
13	10	39	37	153	259	153	259

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	57	53	1140	1098	367	2245	4615	16334
Rural youth	13	12	260	380				
Extn. Functionaries	7	15	140	368				

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
225	Under process	Nil	Nil

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	*Achievement*	*Target*	*Achievement*
-	-	-	-

3.B. Abstract of interventions undertaken

S. No	*Thrust area*	*Crop/ Enterprise*	*Identified Problem*	*Interventions*										
				Title of OFT if any	*Title of FLD if any*	*Number of Training (farmers)*	*Number of Training (Youths)*	*Number of Training (extension personnel)*	*Extension activities (No.)*	*Supply of seeds (Qtl.)*	*Supply of planting materials (No.)*	*Supply of livestock (No.)*	*Supply of bio products*	
													No.	*Kg*
1.	Popularization of improved varieties	Mustard, Carrot, cauliflower Wheat	Low productivity of prevailing Varieties in Wheat, mustard, cauliflower & carrot	-	Improved variety of mustard, Improved variety of carrot, Improved variety of cauliflower Varietal evaluation of wheat (var. WH1105, var.DBW88 , HD3086. HD 2967, var HD2857, HD2894	3	-	5	31	1.4 0.1 0.002 12	-	-	-	-

	Promotion of Integrated pest Management Technology	Paddy, Wheat, Cauliflower & Tomato	Low yield, poor quality and pesticide residue in produce	Management of Bakanae disease (*Fusarium monilifome*) in Paddy Management of Rust (*Puccinia striiformis*.) in wheat (*Triticum aestivum*). (Var. WH-711) Management of damping off disease in tomato nursery & seedling	IPM in paddy, IDM in Mustard IPM in cauliflower	7	-	6	42	-	-	-	5 10 10	25 40 85

	Judicious use of Chemicals for Weed Management	Onion	High cost of labour and Improper use of chemicals for weed control	To assess the efficacy of oxyfluorfen 23.5 % EC & Quizalofop Ethyl 5 % EC weedicide as early post emergence in onion	-	1	-	1	7	-	-	-	-	-
	Promoting improved crop production technologies	Wheat & paddy	Low yield and high cost of production of cereals	Use of zinc sulphate to resist khaira disease in paddy crop.	-	-	-	-	5	-	-	-	-	-
	Promoting integrated nutrient management technologies	onion	Low yield and high cost due to Imbalanced use of nutrients	Response of wettable sulfar on increasing yield in rabi onion	-	1	-	1	7	-	-	-	-	-
	Feeding and Health management in livestock	• Buffaloes & cows •	• Low milk production & heavy worm infestation in buffaloes	• Deworming of buffaloes	• Calcium supplementation for buffaloes	6	-	1	5	-	-	-	-	-

	Poultry management	• Poultry	• Low income of marginal farmers	-	• Promotion of backyard poultry through improved breed	-	-	-	5	-	-	200 chicks of vanaraja		
	Entrepreneurship development on Agri-based enterprises	Employment generation	Low skill and low Employment rate In rural youth	-	-	2	12	-	15	-	-	-	-	-
	Food & Nutrition Security	Fruits & vegetables	Poor knowledge on post harvest management practices, kitchen gardening & lack of awareness on entrepreneurship development in value addition of horticultural crops	Acceptability of bajra biscuits in different ratio	Kitchen gardening for nutritional security Popularization of evaporative cooled vegetable vending cart	5	6	3	26	0.003	2000	-	-	-

3.1 Achievements on technologies assessed and refined

A.1 Abstract of the number of technologies **assessed*** in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management					1					**1**
Integrated Crop Management										
Integrated Nutrient Management					1					**1**
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction					1					**1**
Farm machineries										
Value addition					1					**1**
Integrated Pest Management										
Integrated Disease Management	3				1					**4**
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	**3**				**5**					**8**

* *Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro situation.*

A.2. Abstract of the number of technologies **refined*** in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient										

Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

***** *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*

A.3. Abstract of the number of technologies **assessed** in respect of livestock / enterprises

Thematic areas	**Cattle**	**Poultry**	**Sheep**	**Goat**	**Piggery**	**Rabbitary**	**Fisheries**	**TOTAL**
Evaluation of Breeds								
Nutrition Management		1						1
Disease of Management	1							1
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL	1	1						**2**

A.4. Abstract on the number of technologies **refined** in respect of livestock / enterprises

Thematic areas	**Cattle**	**Poultry**	**Sheep**	**Goat**	**Piggery**	**Rabbitry**	**Fisheries**	**TOTAL**
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

3.2. Achievements on technologies Assessed and Refined

3.2.1. Technologies Assessed under various Crops

Thematic areas	*Crop*	*Name of the technology assessed*	*No. of trials*	*Number of farmers*	*Area in ha (Per trail covering all the Technological Options)*
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					
Mushroom cultivation					
Total					

3.2.2. Technologies Refined under various Crops

Thematic areas	*Crop*	*Name of the technology assessed*	*No. of trials*	*Number of farmers*	*Area in ha (Per trail covering all the Technological Options)*
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					

Thematic areas	*Crop*	*Name of the technology assessed*	*No. of trials*	*Number of farmers*	*Area in ha (Per trail covering all the Technological Options)*
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total					

3.2.3. Technologies assessed under Livestock and other enterprises

Thematic areas	*Name of the livestock enterprise*	*Name of the technology assessed*	*No. of trials*	*No. of farmers*
Evaluation of breeds				
Nutrition management				
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total				

3.2.4. Technologies Refined under Livestock and other enterprises

Thematic areas	*Name of the livestock enterprise*	*Name of the technology assessed*	*No. of trials*	*No. of farmers*
Evaluation of breeds				
Nutrition management				
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total				

B. Details of each On Farm Trial to be furnished in the following format

A. Technology Assessment

Trial 1

1)	Title	:	Response of wettable sulphur on increasing yield in Rabi onion (*Allium cepa, var. Bhadurgarh local*)
2)	Problem diagnose/defined	:	Nutrient deficiency, Low yield of onion
3)	Details of technologies selected for assessment /refinement	:	T_0- Farmer's Practice (no use of wettable sulphur) T_1- Wettable Sulphur @ 1.0 % T_2 -Wettable Sulphur @ 2.0 % **(**Folier spray of wettable sulphur 15, 30, 45, 60 after DAT)
4)	Source of technology	:	Recommendation of NHRDF
5)	Production system thematic area	:	Paddy-Rabi onion system
6)	Thematic area	:	Nutrient Management
7)	Performance of the Technology with performance indicators	:	In progress
8)	Final recommendation for micro level situation	:	-
9)	Constraints identified and feedback for research	:	-
10)	Process of farmers participation and their reaction	:	-

B). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Rabi Onion, Var. Bahadurgarh local	irrigated	Nutrient deficiency, Low yield of onion	11) Response of wettable sulphur on increasing yield in Rabi onion (*Allium cepa*)	03	T_0- Farmer's Practice (no use of wettable sulphur)	Yield (qt./ha)	-	Crop is well condition & bulb formation stage	-
					T_1- wettable Sulphur @ 1.0 %	Yield (qt./ha)			
					T_2 - wettable Sulphur @ 2.0 %	Yield (qt./ha)			

**** No. of farmers***

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T_0- Farmer's Practice (no use of wettable sulphur)	-	-	-
T_1- wettable Sulphur @ 1.0 %	-	-	-
T_2 - wettable Sulphur @ 2.0 %	-	-	-

****Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.***

***** Give details of the technology assessed or refined and farmer's practice***

Trial 2

1)	Title	:	To assess the efficacy of oxyfluorfen 23.5%EC and Quizalofop Ethyl 5% EC weedicide as early post emergence in rabi onion
2)	Problem diagnose/defined	:	Weed infestation, Low yield of onion
3)	Details of technologies selected for assessment /refinement	:	T_1- Farmer's Practice (Pendimethlil one hand weeding) T_2- Oxyfluorfen 23.5%EC @ 1ml/L water + Quizalofop Ethyl 5%EC @ 2ml/L water at 30-35 days after DAT
4)	Source of technology	:	NHRDF
5)	Production system thematic area	:	Paddy-Rabi onion
6)	Thematic area	:	Weed Management
7)	Performance of the Technology with performance indicators	:	-------In progress--------
8)	Final recommendation for micro level situation	:	-
9)	Constraints identified and feedback for research	:	-
10)	Process of farmers participation and their reaction	:	-

B). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Rabi Onion Var. Bhadurgarh local	irrigated	Weed infestation Low yield of onion	Weed management in rabi onion	03	T_1- Farmer's Practice (Pendimethlil one hand weeding)	Weed control efficiency % Yield (qt./ha)	-	Crop is well condition ,weed free & bulb develop & formation stage	-
					T_2- Oxyfluorfen 23.5%EC @ 1ml/Lwater + Quizalofop Ethyl 5%EC @ 2ml/L water 30-35 days after DAT	Weed control efficiency % Yield (qt./ha)	-		

**** No. of farmers***

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T_1- Farmer's Practice (Pendimethlil one hand weeding)			
T_2- Oxyfluorfen 23.5%EC @ 1ml/Lwater + Quizalofop Ethyl 5%EC @ 2ml/L water 30-35 days after DAT			

****Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.***

***** Give details of the technology assessed or refined and farmer's practice***

Trial 3

1) Title : Management of Bakanae disease (*Fusarium monilifome*) in Paddy (Oriza Sativa)

2) Problem diagnose/defined : Low yield due to Bakanae disease of rice

3) Details of technologies selected for assessment /refinement :

T_0- No seed treatment (Farmer's practice)

T_1- Seed treatment with Carbandazim (50 WP) 10g + 1g Streptocycline / 10kg seed and uprooting of seedling after wetting.

T_2- Seed treatment with Carbandazim (50 WP) 10g + 1g Streptocycline / 10kg seed and uprooting of seedling after wetting & dipping of seedling root in 0.01% Carbandazim + 0.001% Streptocycline solution for 20 min before transplanting

4) Source of technology : HAU, Hisar

5) Production system thematic area : Paddy-wheat

6) Thematic area : Integrated Disease Management

7) Performance of the Technology with performance indicators : Seed treatment with Carbandazim (50 WP) 10g + 1g Streptocycline / 10kg seed and uprooting of seedling after wetting & dipping of seedling root in 0.01% Carbandazim + 0.001% Streptocycline solution for 20 min before transplanting resulted in lowest (0.91%) disease incidence and highest (49.13 qt/ha) yield followed by Seed treatment with Carbandazim (50 WP) 10g + 1g Streptocycline / 10kg seed and uprooting of seedling after wetting (2.33% disease incidence and 47.47 qt/ha yield). The disease incidence was highest (6.58%) and yield was lowest (44.47 qt/ha) in without seed treatment.

8) Final recommendation for micro level situation : -

9) Constraints identified and feedback for research : -

10) Process of farmers participation and their reaction : Technology of T_2 is most effective and Farmers of the area agree to practice the seed and seedling treatment is easy and cheap method for management of diseases

B). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Paddy (Oryza sativa)	irrigated	Low yield due to Bakanae disease of rice	Management of Bakanae disease (*Fusarium monilifome*) in Paddy (Oryza sativa)	03	T_0- No seed treatment (Farmer's practice)	Bakanae disease incidence (%) Yield (qt/ha)	T_0 – 6.58 T_0 – 44.47	The disease incidence was lowest (0.91%) and highest (49.13 qt/ha) yield in T_2 followed by T_1 (2.33% disease incidence and 47.47 qt/ha yield).	Technology of T2 is most effective and Farmers of the area agree to practice the seed and seedling treatment is easy and cheap method for management of diseases
					T_1- Seed treatment with Carbandazim (50 WP) 10g + 1g Streptocycline /10kg seed and uprooting of seedling after wetting	Bakanae disease incidence (%) Yield (qt/ha)	T_1- 2.33 T_1 - 47.47		
					T_2- Seed treatment with Carbandazim (50 WP) 10g + 1g Streptocycline /10kg seed and uprooting of seedling after wetting & dipping of seedling root in 0.01% Carbandazim + 0.001% Streptocycline solution for 20 min before transplanting	Bakanae disease incidence (%) Yield (qt/ha)	T_2 - 0.91 T_2 -49.13		

**** No. of farmers***

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio	
11	12	13	14	
T_0- T_0- No seed treatment (Farmer's practice)	-	T_0 – 89954	3.60:1	Rs65078 /- per
T_1- Seed treatment with Carbandazim (50 WP) 10g + 1g Streptocycline / 10kg seed and uprooting of seedling after wetting	CCS HAU, Hisar	T_1– 98354	3.85:1	Rs.75718/- per
T_2- Seed treatment with Carbandazim (50 WP) 10g + 1g Streptocycline / 10kg seed and uprooting of seedling after wetting & dipping of seedling root in 0.01% Carbandazim + 0.001% Streptocycline solution for 20 min before transplanting	-	T_2 – 103002	3.98:1	- Rs.82938/- p ha.

Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.

****** Give details of the technology assessed or refined and farmer's practice***

Trial 4

1)	Title	:	Management of Rust (*Puccinia striiformis*.) in wheat (*Triticum aestivum*). (Var. WH-711)
2)	Problem diagnose/defined	:	Low yield and quality due to infestation of rust disease in wheat
3)	Details of technologies selected for assessment /refinement	:	T_0- Spray of Diethan M45 @ 2gm/L water (Farmer's practice) T_1- Spray of Propaconazole @ 0.1% (1 ml/liter water) after disease appearance T_2- Spray of Propaconazole @ 0.12% (1.2 ml/liter water) after disease appearance
4)	Source of technology	:	Indian Agriculture Research Institute, New Delhi
5)	Production system thematic area	:	Rice-wheat, bajra-wheat
6)	Thematic area	:	Integrated Disease Management
7)	Performance of the Technology with performance indicators	:	Application of Propiconazole (0.12%) resulted in 2.0% disease incidence and 41.33 qt/ha total yield followed by Propiconazole (2.83% disease incidence and 40.73 qt/ha yield
8)	Final recommendation for micro level situation	:	-
9)	Constraints identified and feedback for research	:	-
10)	Process of farmers participation and their reaction	:	The spray of Propaconazole for management of rust disease in wheat is effective and got higher yield. Farmers show interest in further use

B). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Wheat	Irrigated	Low yield and quality due to rust disease in wheat	Management of Rust (*Puccinia striiformis*.) in wheat (*Triticum aestivum*). (Var. PBW-343)	3	T_0- No use of fungicides (Farmer's practice)	Disease incidence (%) Yield (qt/ha)	T_0– 5.58 T_0 – 39.86	Application of Propiconazole (0.12%)resulted in 2.0% disease incidence and 41.33 qt/ha total yield followed by Propiconazole (2.83% disease incidence and 40.73 qt/ha yield	The spray of Propaconazole(0.12%) for management of rust disease in wheat is effective and got higher yield.
					T_1- Spray of Propaconazole @ 0.1% (1 ml/liter water) after appearance	Disease incidence (%) Yield (qt/ha)	T_1– 2.83 T_1 – 40.73		
					T_2- Spray of Propaconazole @ 0.12% (1.2 ml/liter water) after appearance	Disease incidence (%) Yield (qt/ha)	T_2– 2.0 T_2– 41.33		

**** No. of farmers***

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T_0- No use of fungicides (Farmer's practice)	39.86	40351	2.32:1
T_2- Spray of Propaconazole @ 0.1% (1 ml/liter water) after appearance	40.73	41895	2.37:1
T_3- Spray of Propaconazole @ 0.12% (1 ml/liter water) after appearance	41.33	42960	2.41:1

****Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.***

***** Give details of the technology assessed or refined and farmer's practice***

Trial 5

1)	Title	:	Use of zinc sulphate to resist khaira disease in paddy crop.
2)	Problem diagnose/defined	:	Paddy crop damage by khaira disease has been observed in the area.
3)	Details of technologies selected for assessment /refinement	:	T_0 – Farmers Practice (No use of Zinc Sulphate) T_1 - Spray of Zinc Sulphate (33%) @ 0.5 % Concentration.. T_2 - Basal Doses of Zinc Sulphate were given @ 25 kg/hectare First Spray 40 days after transplantation and Second Spray after 60 days after transplantation in Paddy Crop.
4)	Source of technology	:	Division of Soil Science and Agricultural Chemistry, IARI, Pusa New Delhi.
5)	Production system thematic area	:	Wheat-paddy
6)	Thematic area	:	Integrated Disease Management
7)	Performance of the Technology with performance indicators	:	-
8)	Final recommendation for micro level situation	:	NA
9)	Constraints identified and feedback for research	:	Application of $ZnSO_4$ is favorable to control khaira disease in paddy due to deficiency of Zn in soil therefore, zinc should be applied in soil.
10)	Process of farmers participation and their reaction	:	Khaira disease is common in different parts of the country. In Delhi region farmers also face this problem. Farmers require economical chemical of $ZnSO_4$ and easily availability in the market.

B). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Paddy (Oryza sativa)	Irrigated	Occurance of Khaira Disease in paddy crop	Use of zinc sulphate to resist khera disease in paddy crop	3	T_0- Farmers Practice	Incedence of Khaira disease Yield (q/ha)	T_0 -19.3 T_0 -45.60	Application of $ZnSO_4$ (Basal dose) @ 25kg/ha and yield of 47.40 q/ha followed by spray of ZnSO4 (0.5%) & yield of 46.20 q/ha.	$ZnSO_4$ is easily available at reasonable rate in market.
					T_1- Spray ZnSo4 (0.5%)	Incedence of Khaira disease Yield (q/ha)	T_1 – 7.60 T_1 - 46.20		
					T_2- Basel dose ZnSo4	Incedence of Khaira disease Yield (q/ha)	T_2 -5.60 T_2 - 47.40		

**** No. of farmers***

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T_0- Farmers Practice	45.60	68255	2.86:1
T_1- Spray ZnSo4 (0.5%)	46.20	69635	2.90:1
T_2- Basel dose ZnSo4 (25kg/ha)	47.40	72395	2.97:1

****Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.***

***** Give details of the technology assessed or refined and farmer's practice***

Trial 6

1) Title : Use of dewormer in buffaloes
2) Problem diagnose/defined : Low milk yield due to high worm infestation
3) Details of technologies selected for assessment /refinement :

T_0- No use of deworming
T_1- 2 times deworming at an interval of 6 months
T_2- 4 times deworming at an interval of 3 months

4) Source of technology : HAU, Hisar
5) Production system thematic area : Buffaloes
6) Thematic area : Disease Management
7) Performance of the Technology with performance indicators : Milk yield of buffalo were increased 6.85 liter (7.03%) in T2 compared to 6.70 (4.68%) liter in T1 & 6.40 in T0.
8) Final recommendation for micro level situation : NA
9) Constraints identified and feedback for research : In initial phase buffaloes refused to consume direct dewormer.
10) Process of farmers participation and their reaction : In initial phase of trail farmer's were facing problem of dysentery and low milk yield but after use of dewormer buffaloes milk yield increased and get rid of dysentery -

B). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Buffaloes	-	Low milk yield due to high worm infestation	Use of dewormer in buffaloes	03	T_0- No use dewormer	Milk Yeild L/day	6.40	Milk yield of buffalo were increased 6.85 liter (7.03%) in T2 compared to 6.70 (4.68%) liter in T1 & 6.40 in T0.	In initial phase of trail farmer's were facing problem of dysentery and low milk yield but after use of dewormer buffaloes milk yield increased and get rid of dysentery
					T_1- 2 times deworming at an interval of 6 months	Milk Yeild L/day	6.70		
					T_2- 4 times deworming at an interval of 3 months	Milk Yeild L/day	6.85		

**** No. of farmers***

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T_0- No use Use of dewormer	6.40 l/day	91.00	1.55:1
T_1- 2 times deworming at an interval of 6 months	6.70 l/day	102.50	1.61:1
T_2- 4 times deworming at an interval of 3 months	6.88 l/day	108.00	1.65:1

****Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.***

***** Give details of the technology assessed or refined and farmer's practice***

Trial 7

1)	Title	:	Supplementation of growth promoter in broiler poultry
2)	Problem diagnose/defined	:	Slow weight gain of birds due to nutritional deficiency
3)	Details of technologies selected for assessment /refinement	:	T_0- No use of growth promoter T_1- Vitamin A (50 ml/ 1000 birds) for 15 days T_2- Vitamin A 50 ml + Vitamin B complex 70 ml/1000 birds for 15 days
4)	Source of technology	:	CARI, Barielly
5)	Production system thematic area	:	Broiler birds
6)	Thematic area	:	Nutrition Management
7)	Performance of the Technology with performance indicators	:	Weight gain of broiler birds were increased 1692 kg (17.5%) as compared to 1575 kg (9.37%) T1and 1440 kg T0.
8)	Final recommendation for micro level situation	:	NA
9)	Constraints identified and feedback for research	:	No problem identified during supplementation of growth promoter to birds
10)	Process of farmers participation and their reaction	:	Growth promoter is capable to enhance the weight of birds-

B). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Broiler birds	-	Slow weight gain of birds due to nutritional deficiency	Supplementation of growth promoter in broiler poultry	03	T_0- No use Of growth promoter	Weight gain kg/1000 birds	1440 kg	Weight gain of broiler birds were increased 1692 kg (17.5%) as compared to 1575 kg (9.37%) T1and 1440 kg T0.	Growth promoter is capable to enhance the weight of birds
					T_1- Vitamin A (50 ml/1000 birds per day)	Weight gain kg/1000 birds	1575 kg		
					T_2- Vitamin A 50 ml/1000 birds + B-complex70 ml/1000 birds per day	Weight gain kg/1000 birds	1692 kg		

**** No. of farmers***

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T_0- No use Use of dewormer	1440 kg / 1000 bird	47960/-	1.54:1
T_1- 2 times deworming at an interval of 6 months	1575 kg/1000 bird	40500/-	1.47:1
T_2- 4 times deworming at an interval of 3 months	1692 kg /1000 bird	33500/-	1.41:1

****Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.***

***** Give details of the technology assessed or refined and farmer's practice***

Trial 8

1) Title : Management of damping off (Pythium aphenidematun) disease in tomato (Lycopersicon esclentum) nursery
2) Problem diagnose/defined : Damping off disease
3) Details of technologies selected for assessment /refinement :

T_0- Farmer's Practice (no seed and soil treatment)
T_1- Seed treatment with *Trichoderma virdi*@ 5g/kg. seed and soil treatment @ 10g/m^2nursery area with decomposed FYM
T_2- Seed treatment with *Trichoderma virdi* @ 5g/kg. seed and soil treatment @ 10g/m^2nursery area with decomposed FYM + dipping of seedling in 5g/liter water solution for 15 minutes before transplanting.

4) Source of technology : NCIPM, Pusa, New Delhi
5) Production system thematic area : Vegetable
6) Thematic area : Integrated Disease Management
7) Performance of the Technology with performance indicators : Decrease plant infestation and increase yield due to bio fungicide Trichoderma viride
8) Final recommendation for micro level situation : NA
9) Constraints identified and feedback for research : NA
10) Process of farmers participation and their reaction : Seed and soil treatment is effective for seedling stage

B). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Tomato (Lycopersicon esclentum)	Irrigated	Damping off	Management damping off (Pythium aphenidematun) disease in tomato nursery	3	T_0- Farmer's Practice (no seed and soil treatment)	Yield q/ha Incidence %	T_0- 259.8 T_0- 12.5%	Decrease plant infestation and increase yield due to bio fungicide Trichoderma viride	-
					T_1- Seed treatment with *Trichoderma harzanium* @ 5g/kg. seed and soil treatment @ 10g/m^2nursery area with decomposed FYM	Yield q/ha Incidence %	T_1- 267.46 T_1-6.2		
					T_2- Seed treatment with *Trichoderma harzanium* @ 5g/kg. seed and soil treatment @ 10g/m^2nursery area with decomposed FYM + dipping of seedling in 5g/liter water solution for 15 minutes before transplanting.	Yield q/ha Incidence %	T_1- 267.46 T_1-6.2		

**** No. of farmers***

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
Farmer's Practice (no seed and soil treatment)	259.8	190300	3.73:1
Seed treatment with *Trichoderma harzanium* @ 5g/kg. seed and soil treatment @ 10g/m^2nursery area with decomposed FYM	267.46	197960	3.84:1
Seed treatment with *Trichoderma harzanium* @ 5g/kg. seed and soil treatment @ 10g/m^2nursery area with decomposed FYM + dipping of seedling in 5g/liter water solution for 15 minutes before transplanting.	270.70	201200	3.89:1

Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.

****** Give details of the technology assessed or refined and farmer's practice***

Trial 9

1)	Title	:	Use of wheel hoe weeder in cauliflower weeds
2)	Problem diagnose/defined	:	Weed infestation, high cost & drudgery in manual weeding
3)	Details of technologies selected for assessment /refinement	:	A simple low cost wheel hoe has been assessed to reduce the drudgery and labour cost in Culiflower crop. T_0- Farmer's Practice (Hand weeding) T_1- Weedicide spray + one hand weeding at 45 DAT T_2- Weedicide spray + weeding by wheel hoe weedicide
4)	Source of technology	:	Indian Agriculture Research Institute, New Delhi
5)	Production system thematic area	:	Irrigated
6)	Thematic area	:	Drudgery Reduction
7)	Performance of the Technology with performance indicators	:	Use of wheel hoe had recorded drudgery (mandays in one ha per weeding) and save Rs.9200 Per weeding in one ha.
8)	Final recommendation for micro level situation	:	To be assessed Constraints identified and
	feedback for research	:	-
9)	Constraints identified and feedback for research	:	-
10)	Process of farmers participation and their reaction	:	Due to its easy operation and no maintenance cost there is good demand for the implement

B). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Cauliflower	Irrigated	Weed infestation, high cost & drudgery in manual weeding	Wheel hoe weeder in cauliflower weed	3	T1: Farmer's practice(hand weeding)	Weeding cost Rs/ha: Labour Used (No./ha):	Rs.15000/ha 50/ha	Use of wheel hoe recorded reduced drudgery (10 mandays in one ha per weeding) and save Rs.9200 per weeding in one ha	Due to its easy operation and no maintenance cost there is good demand for the implement.
					T2- Weedicide spray+one hand weeding at 45 DAT	Weeding cost Rs/ha: Labour Used (No./ha):	Rs. 9300/ha 25/ha		
					T3- Weedicide spray+weeding by wheel hoe weeder	Weeding cost Rs/ha: Labour Used (No./ha):	Rs. 4800/ha 10/ha		

**** No. of farmers***

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1- Hand weeding	50	-	-
T2- Weedicide spray+ one hand weeding at 45 daysDAT	25	-	-
T3- Weedicide spray+ weeding by wheel hoe weeder	10	-	-

****Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.***

***** Give details of the technology assessed or refined and farmer's practice***

Trial 10

1) Title : Acceptability of bajra biscuit in different ratio
2) Problem diagnose/defined : Poor consumption of bajra
3) Details of technologies selected for assessment /refinement : A simple low cost technology has been assessed to popularize the consumption of bajra in biscuit form using different combination.

   T_0- Farmer's Practice (Wheat biscuit)
   T_1- Wheat (50%) + Bajra (50%)
   T_2- Wheat (20%)+ Bajra (60%) + Besan (20%)

4) Source of technology : CCS HAU, Hisar
5) Production system thematic area : Irrigated
6) Thematic area : Value Addition
7) Performance of the Technology with performance indicators : It was observed that bajra+wheat biscuit in 50% combination (T2) was liked very much by 85% in taste respondents as compared to wheat biscuit which was liked very much by 80% followed by T3 (bajra+besan+wheat) which was only liked by 60% of the respondents.
8) Final recommendation for micro level situation : To be assessed
9) Constraints identified and feedback for research : -
10) Process of farmers participation and their reaction : There is good demand for biscuit in wheat+bajra combination.

B). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Bajra	Irrigated	Poor consumption of bajra	Acceptability of bajra biscuit in different ratio	3	T1:Farmer's Practice (Wheat biscuit)	Organoleptic acceptability in terms of taste (%) Organoleptic acceptability in terms of colour (%)	80% 70%	Bajra biscuit in combination of 50% each in bajra+ wheat combination was liked by the majority in terms of taste (85%) as well as colour (80%)	Majority of the population showing keen interest in bajra+wheat biscuit in 50% combination each.
					T2- Wheat (50%) + Bajra (50%)	Organoleptic acceptability in terms of taste (%) Organoleptic acceptability in terms of colour (%)	85% 80%		
					T3- Wheat (20%) + Bajra (60%)+Besan (20%)	Organoleptic acceptability in terms of taste (%) Organoleptic acceptability in terms of colour (%)	60% 50%		

**** No. of farmers***

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1- Farmer's Practice (Wheat biscuit)	-	-	-
T2- Wheat (50%) + Bajra (50%)	-	-	-
T3- Wheat (20%) + Bajra (60%)+Besan (20%)			

****Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.***

***** Give details of the technology assessed or refined and farmer's practice***

B. Technology Refinement

Trial 1

1. Title : Improved nutrient management for control of reddening in cotton **

2. Problem diagnose/defined : Magnessium deficiency and low productivity of cotton grown rainfed black soils of central Amaravati district**

3. Details of technologies selected for assessment/refinement:

i. 40 kg N + 30 kg P2O5 - Farmers Practice**
ii. 50:25:25 NPK/ha + 2% Urea spray at flowering stage + 0.2 % magnesium sulphate (one spray) and 2% DAP +0.2% magnesium sulphate at boll formation stage (two spray) – Recommended practice**
iii. 50:25:25 NPK/ha + spraying of soluble fertilizer 19:19:19 NPK @ 1% + 0.2% magnesium sulphate at square formation and flowering stage (two spray) and spray of soluble fertilizer 12:61:00 @ 1% +0.2% magnesium sulphate at boll formations stage (two spray) – Refined Practice**

4. Source of technology : Dr. P.D. K.V Akola**

5. Production system thematic area : Rainfed cotton based system (Cotton – Bengalgram System)

6. Thematic area : Integrated nutrient management**

7. Performance of the Technology with performance indicators : The refined practice of nutrient management had less incidence of reddening of leaves (13 per plant), more number of bolls (22) and higher yield (11.75 q/ha) as compared to other treatments of nutrient management.

8. Final recommendation for micro level situation : Application of 50:25:25 NPK/ha + spraying of soluble fertilizer 19:19:19 NPK @ 1% + 0.2% magnesium sulphate at square formation and flowering stage (two spray) and spray of soluble fertilizer 12:61:00 @ 1% +0.2% magnesium sulphate at boll formations stage (two spray) may be recommended for control of reddening in cotton on rainfed medium black soils of central Amaravati**

9. Constraints identified and

feedback for research : Mention the specific constraints and feedback

10. Process of farmers participation and their reaction : Briefly mention the extent, level and process of farmers participation in planning, execution, monitoring, evaluation of the trial and their reaction towards the performance, efficacy, adoptability etc. of the improved technology refined

2). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology refined	Parameters	Data on the parameter	Results of refinement	Feedback from the farmer	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11
Cotton	Rainfed	Magnesium deficiency and low productivity	Improved nutrient management for control of reddening in cotton **	5		Days to 50% maturity, no. of bolls/plant, no. of red leaves/plant				

**** No. of farmers***

Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15
1. 40 kg N + 30 kg P2O5 - Farmers Practice**			
2. 50:25:25 NPK/ha + 2% Urea spray at flowering stage + 0.2 % magnesium sulphate (one spray) and 2% DAP +0.2% magnesium sulphate at boll formation stage (two spray) – Recommended practice**			
3. 50:25:25 NPK/ha + spraying of soluble fertilizer 19:19:19 NPK @ 1% + 0.2% magnesium sulphate at square formation and flowering stage (two spray) and spray of soluble fertilizer 12:61:00 @ 1% +0.2% magnesium sulphate at boll formations stage (two spray) – Refined practice**			

****Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.***

***** Give details of the technology assessed or refined and farmer's practice***

PART 4 - FRONTLINE DEMONSTRATIONS

4.A. Summary of FLDs implemented during 2014-15

Sl. No.	*Category*	*Farming Situation*	*Season and Year*	*Crop*	*Variety/ breed*	*Hybrid*	*Thematic area*	*Technology Demonstrated*	*Area (ha)*		*No. of farmers/ demonstration*			*Reasons for shortfall in achievement*
									Proposed	*Actual*	*SC/ST*	*Others*	*Total*	
1.	Oilseeds	Irrigated	Rabi 2014-15	Mustard	P-Vijay	-	IDM	IDM in mustard	4	4	-	10	10	
2.		Irrigated	Rabi 2014-15	Mustard	P-Vijay	-	Varietal evaluation	Improved variety of mustard – Pusa Vijay	-	8	6	14	20	
3.		Irrigated	Rabi 2014-15	Mustard	CS-56	-	Varietal evaluation	Improved variety of mustard – CS-56	20	20	10	40	50	
4.	Pulses	Irrigated	Kharif 2014-15	Guar	HG-365	-	Varietal evaluation	Improved variety of Guar HG 365	2	2	1	4	5	
5.		Irrigated	Kharif 2014-15	Guar	HG- 2-20	-	Varietal evaluation	Improved variety of Guar HG 2-20	2	2	1	4	5	
6.	Cereals	Irrigated	Kharif 2014-15	Paddy	Pusa-1509	-	Varietal evaluation	Improved variety of paddy – Pusa 1509	-	16	5	35	40	
		Irrigated	Kharif 2014-15	Paddy	Pusa-1121	-	Complete P&P	Improved variety of paddy – Pusa 1121	-	8	4	16	20	
		Irrigated	Kharif 2014-15	Paddy	Pusa-1121	-	IPM	IPM in paddy	-	2	2	3	5	
		Irrigated	Rabi 2014-15	Wheat	HD-3086	-	Varietal evaluation	HYV of wheat- HD 3086	-	2.4	-	6	6	
		Irrigated	Rabi 2014-15	Wheat	WH 1105	-	Bio-fertilizers	HYV of wheat- WH 1105 with bio-fertilizers (Azotobactor+ PSB)	-	2.0	-	5	5	
		Irrigated	Rabi 2014-15	Wheat	DBW 88	-	ICM	HYV of wheat- DBW 88 under tillage with rotavator	-	3.0	2	5	7	
		Irrigated	Rabi 2014-15	Wheat	HD-2967	-	Varietal evaluation	HYV of wheat- HD 2967	-	2.4	-	6	6	
		Irrigated	Rabi 2014-15	Wheat	HD-2851	-	Varietal evaluation	HYV of wheat- HD 2851	-	1.2	-	3	3	

Sl. No.	*Category*	*Farming Situation*	*Season and Year*	*Crop*	*Variety/ breed*	*Hybrid*	*Thematic area*	*Technology Demonstrated*	*Area (ha)*		*No. of farmers/ demonstration*			*Reasons for shortfall in achievement*
									Proposed	*Actual*	*SC/ST*	*Others*	*Total*	
		Irrigated	Rabi 2014-15	Wheat	HD-2894	-	Varietal evaluation	HYV of wheat- HD 2894	-	1.2	-	3	3	
7.	Millets													
8.	Vegetables	Irrigated	Kharif 2014-15	Carrot	Pusa Vrishti	-	Varietal evaluation	Improved variety of carrot– Pusa Vrishti	-	2	-	5	5	
		Irrigated	Kharif 2014-15	Cauliflower	Pusa Kartik Sanker	-	Varietal evaluation	Improved variety of cauliflower– Pusa Pusa Kartik Sanker	-	0.4	-	4	4	
		Irrigated	Rabi 2014-15	Cauliflower	Girija	Hybrid	IPM	Integrated pest Management of Cauliflower	4	4	1	9	10	-
9.	Flowers													
10.	Fruit													
11.	Spices and condiments													
12.	Commercial													
13.	Medicinal and aromatic													
14.	Fodder													
15.	Dairy	Irrigated	Kharif 2014	Buffalo	Local		Nutrition management	Calcium Supplementation to buffaloes	20 no	20 no	02	18	20	
16.	Poultry	Irrigated	Rabi 2014	Poultry	Vanraja		Breed management	Performance of Backyard poultry evaluation	12 no	12 no	04	08	12	
17.	Piggery													
18.	Sheep and goat													
19.	Button mushroom													

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
20.	Vermicompost													
21.	IFS													
22.	Apiculture													
23.	Implements	Irrigated	Rabi-kharif 2014-2015	Vegeatbles	-	-	Post harvest management	Popularization of evaporative cooled vegetable vending cart	-	-	-	3	3	In progress
24.	Others (specify) Nutrional Kitchen Gardeneing	Irrigated	Kharif 2014-15	Kharif season vegetable	Pusa kitchen garden kit	-	Nutritional Gardening	Kitchen gardening for nutritional security	0.2	0.2	-	10	10	-
25.		Irrigated	Rabi 2014-15	Rabi season vegetable	Pusa kitchen garden kit	-	Nutritional Gardening	Kitchen gardening for nutritional security	0.2	0.2	-	10	10	-

4.A. 1. Soil fertility status of FLDs plots during 2014-15

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Status of soil (Kg/ha)			Previous crop grown
									N	P	K	
	Oilseeds	Irrigated	Rabi 2014-15	Mustard	P-Vijay	-	IDM	IDM in mustard	-	12.5	114.8	Fallow
		Irrigated	Rabi 2014-15	Mustard	P-Vijay	-	Varietal evaluation	Improved variety of mustard – Pusa Vijay	-	12.5	114.8	fallow
		Irrigated	Rabi 2014-15	Mustard	CS-56	-	Varietal evaluation	Improved variety of mustard – CS 56	-	12.5	114.8	fallow
	Pulses	Irrigated	Kharif 2014-15	Guar	HG-365	-	Varietal evaluation	Improved variety of Guar HG 365	-	-	-	wheat
		Irrigated	Kharif 2014-15	Guar	HG- 2-20	-	Varietal evaluation	Improved variety of Guar HG 2-20	-	-	-	wheat
	Cereals	Irrigated	Kharif 2014-15	Paddy	Pusa-1509	-	Varietal evaluation	Improved variety of paddy – Pusa 1509	-	-	-	Wheat
		Irrigated	Kharif 2014-15	Paddy	Pusa-1121	-	Complete	Improved variety of paddy –	-	-	-	Wheat

Sl. No.	*Category*	*Farming Situation*	*Season and Year*	*Crop*	*Variety/ breed*	*Hybrid*	*Thematic area*	*Technology Demonstrated*	*Status of soil (Kg/ha)*			*Previous crop grown*
									N	*P*	*K*	
							P&P	Pusa 1121				
		Irrigated	Kharif 2014-15	Paddy	Pusa-1121	-	IPM	IPM in paddy	-	15.82	85.12	wheat
		Irrigated	Rabi 2014-15	Wheat	HD-3086	-	Varietal evaluation	HYV of wheat- HD 3086				
		Irrigated	Rabi 2014-15	Wheat	WH 1105	-	Bio-fertilizers	HYV of wheat- WH 1105 with bio-fertilizers (Azotobactor+ PSB)	-	-	-	Fallow
		Irrigated	Rabi 2014-15	Wheat	DBW 88	-	ICM	HYV of wheat- DBW 88 under tillage with rotavator	-	-	-	Fallow
		Irrigated	Rabi 2014-15	Wheat	HD-2967	-	Varietal evaluation	HYV of wheat- HD 2967	-	-	-	Fallow
		Irrigated	Rabi 2014-15	Wheat	HD-2851	-	Varietal evaluation	HYV of wheat- HD 2851	-	-	-	Fallow
		Irrigated	Rabi 2014-15	Wheat	HD-2894	-	Varietal evaluation	HYV of wheat- HD 2894	-	-	-	Fallow
	Millets											
	Vegetables	Irrigated	Kharif 2014-15	Carrot	Pusa Vrishti	-	Varietal evaluation	Improved variety of carrot– Pusa Vrishti	-	21.4	262.0	wheat
		Irrigated	Kharif 2014-15	Cauliflower	Pusa Kartik Sanker	-	Varietal evaluation	Improved variety of cauliflower– Pusa Pusa Kartik Sanker	-	19.45	245.10	wheat
		Irrigated	Rabi 2014-15	Cauliflower	Girija	Hybrid	IPM	Integrated pest management of Cauliflower	-	19.45	245.10	Vegetables
	Flowers											
	Fruit											
	Spices and condiments											
	Commercial											
	Medicinal and aromatic											
	Fodder											
	Plantation											
	Dairy											
	Poultry											
	Piggery											
	Sheep and goat											
	Button mushroom											
	Vermicompost											

Sl. No.	*Category*	*Farming Situation*	*Season and Year*	*Crop*	*Variety/ breed*	*Hybrid*	*Thematic area*	*Technology Demonstrated*	*Status of soil (Kg/ha)*			*Previous crop grown*
									N	*P*	*K*	
	IFS											
	Apiculture											
	Implements											
	Others (specify) Nutritional Gardening	Irrigated	Kharif 2014-15	Kharif season vegetable	Pusa kitchen garden kit	-	Nutritional Gardening	Kitchen gardening for nutritional security	-	5.25	114.8	Fallow
		Irrigated	Rabi 2014-15	Rabi season vegetable	Pusa kitchen garden kit	-	Nutritional Gardening	Kitchen gardening for nutritional security	-	6.10	198.7	Kharif vegetables

B. Results of Frontline Demonstrations

4.B.1. Crops

Crop	*Name of the technology demonstrated*	*Variety*	*Hybrid*	*Farming situation*	*No. of Demo.*	*Area (ha)*	*Yield (q/ha)*				*% Increase*	**Economics of demonstration (Rs./ha)*				**Economics of check (Rs./ha)*			
							Demo			*Check*		*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*	*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*
							H	L	A										
Oilseeds	IDM in Mustard	P-Vijay	-	Irrigated	10	4	16.5	14.3	15.6	12.2	12.2	16250	49920	33670	3.07:1	16500	39040	22540	2.36:1
	Varietal Evaluation	P.Vijay	-	Irrigated	20	8	18.0	14.5	17.0	13.5	25.9	16050	57800	41750	3.6:1	15800	45900	30100	2.9:1
	Varietal Evaluation	CS-56	-	Irrigated	50	20	17.5	13.75	15.5	13.5	14.81	16050	52700	36650	3.2:1	15800	45900	30100	2.9:1
Pulses	Varietal Evaluation	HG 365	-	Irrigated	5	2	7.90	7.20	7.69	7	9.8	18700	46140	27440	2.46:1	19000	42000	23000	2.21:1
	Varietal Evaluation	HG 2-20	-	Irrigated	5	2	8.15	7.60	7.50	7.10	5.63	18700	47400	28700	2.53:1	18800	42600	23800	2.26:1
Cereals	Varietal Evaluation	Pusa-1509	-	Irrigated	40	16	58.75	47.5	51.0	48.0	6.25	34562	142800	108238	4.13:1	34062	153600	119538	4.13:1
	Complete P&P	Pusa-1121	-	Irrigated	20	8	53.75	47.5	49.5	48.0	3.13	34562	158400	123838	4.58:1	34062	153600	119538	4.58:1
	IPM	Pusa-1121	-	Irrigated	5	2	48.10	46.90	47.61	45.15	5.45	34562	133308	98746	3.86:1	34960	126420	91460	3.62:1

Crop	*Name of the technology demonstrated*	*Variety*	*Hybrid*	*Farming situation*	*No. of Demo.*	*Area (ha)*	*Yield (q/ha)*				*% Increase*	**Economics of demonstration (Rs./ha)*				**Economics of check (Rs./ha)*			
							Demo			*Check*		*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*	*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*
							H	L	A										
	HYV of wheat- HD 3086	HD-3086	-	Irrigated	6	2.4	40	38.5	39.43	37.6	4.86	33000	57173	27173	1.73:1	33000	54520	21520	1.65:1
	HYV of wheat- WH 1105 with bio-fertilizers (Azotobactor+ PSB)	WH-1105	-	Irrigated	5	2	50	48.4	49.10	37.5	30.9	33100	71195	38095	2.15:1	33000	54375	21375	1.64:1
	HYV of wheat- DBW 88 under tillage with rotavator	DBW-88	-	Irrigated	7	3	42.5	41.30	41.87	37.0	13.16	33000	60711	27711	1.83:1	33000	53650	20650	1.62:1
	HYV of wheat- HD 2967	HD-2967	-	Irrigated	6	2.4	50.30	48.80	49.40	37.60	31.38	33000	71630	38630	2.17:1	33000	54520	21520	1.65:1
	HYV of wheat- HD 2851	HD-2851	-	Irrigated	3	1.2	39.5	38.20	38.5	37.0	4.05	33000	55825	22825	1.69:1	33000	53650	20650	1.62:1
	HYV of wheat- HD 2894	HD-2894	-	Irrigated	3	1.2	38.70	37.60	38.1	37.0	2.97	33000	55245	22245	1.67:1	33000	53650	20650	1.62:1
Millets																			
Vegetables	Varietal Evaluation	Pusa Vrishti	-	Irrigated	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	Varietal Evaluation	Pusa Kartik Sanker	-	Irrigated	4	0.4	148	131	139	134	3.73	62500	208500	146000	3.3:1	65000	201000	136000	3.09:1
	Integrated pest Management of Cauliflower	Girija	Hybrid	Irrigated	10	4	330	300	311.5	486	8.18	66240	311500	245260	4.7:1	69100	286000	216900	4.1:1
Flowers																			
Fruit																			

Crop	*Name of the technology demonstrated*	*Variety*	*Hybrid*	*Farming situation*	*No. of Demo.*	*Area (ha)*	*Yield (q/ha)*				*% Increase*	**Economics of demonstration (Rs./ha)*				**Economics of check (Rs./ha)*			
							Demo			*Check*		*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*	*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*
							H	L	A										
Spices and condiments																			
Commercial																			
Medicinal and aromatic																			
Fodder																			

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST ; H – Highest Yield, L – Lowest Yield A – Average Yield

Data on additional parameters other than yield (viz., reduction of percentage in weed/pest/ diseases etc.)

Data on other parameters in relation to technology demonstrated					
Crop	***Technology to be demonstrated***	***Variety/ Hybrid***	***Parameter with unit***	***Demo***	***Check***

4.B.2. Livestock and related enterprises

Type of livestock	*Name of the technology demonstrated*	*Breed*	*No. of Demo*	*No. of Units*	*Yield (l/day)*				*% Increase*	**Economics of demonstration Rs./unit)*				**Economics of check (Rs./unit)*			
					Demo			*Check if any*		*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*	*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*
					H	L	A										
Dairy	Calcium supple-mentation to buffaloes	Local	20	20	9.2	6.6	7.9	7.0	12.85	150.5	355.5	205	2.36:1	145.0	315.0	170.0	2.17:1
Poultry	Performance of Backyard poutry through improved breed	Vanraja	12	12	FLD in Progress (Egg production in initial stage)					FLD in Progress (Egg production in initial stage)				FLD in Progress (Egg production in initial stage)			
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl. specify)																	

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

Data on additional parameters other than yield (viz., reduction of percentage diseases, increase in conceiving rate, inter-calving period etc.)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	***Demo***	***Check if any***

4. B.3. Fisheries

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m^2)	Yield (q/ha)				% Increase	*Economics of demonstration Rs./unit) or (Rs./m2)				*Economics of check Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Common carps																	
Others (pl.specify)																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST
H-High L-Low, A-Average

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	***Demo***	***Check if any***

4.B.4. Other enterprises

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m^2}	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)				*Economics of check (Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Button mushroom																	
Vermicompost																	
Apiculture																	
Others (pl.specify) Nutrional Gardening Kharif	Kitchen gardening for nutritional security	Pusa kitchen garden kit	10	200	148	126	135	-	-	1250/ unit	4050/ unit	2800/ unit	3.2 4:1	-	-	-	-
Others (pl.specify) Nutrional Gardening Rabi	Kitchen gardening for nutritional security	Pusa kitchen garden kit	10	200	180	165	170	-	-	1250/ unit	5100/ unit	3850/ unit	4.0 8:1	-	-	-	-

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST
H-High L-Low, A-Average

Data on additional parameters other than yield (viz., additional income realized, employment generation, quantum of farm resources recycled etc.)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	***Demo***	***Local***

4.B.5. Extension and Training activities under FLD

Sl.No.	*Activity*	*No. of activities organised*	*Number of participants*	*Remarks*
1	Field days			
		1	1	
	Mustard	1	41	
	Wheat	1	50	
	Calcium Supplementation	1	50	
	Kitchen gardening			
2	Farmers Training –			
		2	25	
	Mustard	1	18	
	Wheat	1	17	
	IPM in paddy	1	18	
	IPM in mustard	1	19	
	IPM in cauliflower	2	34	
	Kitchen gardening	2	39	
	Calcium Supplementation			
3	Media coverage :			
		1		
	Mustard	1	50	
	Kitchen gardening	1	50	
	Calcium Supplementation		17	
4	Training for extension functionaries	-		
5	Others :			
	Kisan Gosthi :	1		
	Mustard	1	50	
	Wheat	1	25	
	Feeding Mineral Mixture to dairy animal		54	

5. Achievements on Training (Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit) :

A) **ON Campus**

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Water management										
Seed production										
Nursery management	1	14	-	14	4	-	4	18	-	18
Integrated Crop Management										
Fodder production										
Production of organic inputs										
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization										
Protective cultivation (Green Houses, Shade Net etc.)										
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										
c) Ornamental Plants										
Nursery Management	1	16	-	16	4	-	4	20	-	20
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants	1	4	-	4	16	-	16	20	-	20
d) Plantation crops										
Production and Management technology										
Processing and value addition										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
f) Spices										
Production and Management technology										
Processing and value addition										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition	1	30	40	70	-	-	-	30	40	70
III Soil Health and Fertility Management										
Soil fertility management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of										

Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Soil and Water Testing										
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Disease Management										
Feed management	1	17	-	17	-	-	-	17	-	17
Production of quality animal products										
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	9	11	20	-	-	-	9	11	20
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Storage loss minimization techniques	1	-	16	16	-	-	-	-	16	16
Value addition										
Income generation activities for empowerment of rural Women	1	-	24	24	-	6	6	-	30	30
Location specific drudgery reduction technologies										

Rural Crafts										
Women and child care										
VI Agril. Engineering										
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										
VII Plant Protection										
Integrated Pest Management	2	32	-	32	2	-	2	34	-	34
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										

Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
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										
X Capacity Building and Group Dynamics										
Leadership development	1	6	-	6	12	-	12	18	-	18
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming										

Systems										
TOTAL	**11**	**128**	**91**	**219**	**34**	**6**	**40**	**162**	**97**	**259**
(B) RURAL YOUTH										
Mushroom Production	1	15	1	16	5	-	5	20	1	22
Bee-keeping	1	17	3	20	3	-	3	20	3	23
Integrated farming										
Seed production										
Production of organic inputs	1	13	1	14	5	1	6	18	2	20
Integrated Farming										
Planting material production										
Vermi-culture										
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit production										
Repair and maintenance of farm machinery and implements										
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Value addition	1	-	20	20	-	4	4	-	24	24
Production of quality animal products										
Dairying	1	31	14	45	3	3	6	34	17	51
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1	18	-	18	4	-	4	22	-	22
Ornamental fisheries										
Para vets										
Para extension workers										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling										

rearing										
Small scale processing	1	2	21	23	-	1	1	2	22	24
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
TOTAL	**7**	**96**	**60**	**156**	**20**	**9**	**29**	**116**	**69**	**185**
(C) Extension Personnel										
Productivity enhancement in field crops	2	50	-	50	-	-	-	50	-	50
Integrated Pest Management	3	75	-	75	-	-	-	75	-	75
Integrated Nutrient management	2	50	-	50	-	-	-	50	-	50
Rejuvenation of old orchards										
Protected cultivation technology	1	25	-	25	-	-	-	25	-	25
Formation and Management of SHGs										
Group Dynamics and farmers organization	1	25	-	25	-	-	-	25	-	25
Information networking among farmers										
Capacity building for ICT application	1	25	-	25	-	-	-	25	-	25
Care and maintenance of farm machinery and implements										
WTO and IPR issues										
Management in farm animals										
Livestock feed and fodder production	1	25	-	25	-	-	-	25	-	25
Household food security	1	20	-	20	-	-	-	20	-	20
Women and Child care	2	-	48	48	-	-	-	-	48	48
Low cost and nutrient efficient diet designing	1	25	-	25	-	-	-	25	-	25
Production and use of organic inputs										
Gender mainstreaming through SHGs										
TOTAL	15	320	48	368	-	-	-	320	48	368

B) **OFF Campus**

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	1	17	-	17	4	-	4	21	-	21
Resource Conservation Technologies										
Cropping Systems	1	11	-	11	10	-	10	21	-	21
Crop Diversification										
Integrated Farming										
Water management										
Seed production										
Nursery management										
Integrated Crop Management										
Fodder production										
Production of organic inputs										
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	4	66	-	66	11	-	11	77	-	77
Off-season vegetables										
Nursery raising	1	14	-	14	6	-	6	20	-	20
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization										
Protective cultivation (Green Houses, Shade Net etc.)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	1	18	-	18	2	-	2	20	-	20
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										

Micro irrigation systems of orchards										
Plant propagation techniques										
c) Ornamental Plants										
Nursery Management	1	16	-	16	2	-	2	18	-	18
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
f) Spices										
Production and Management technology										
Processing and value addition										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology	1	22	-	22	-	-	-	22	-	22
Post harvest technology and value addition										
III Soil Health and Fertility Management										
Soil fertility management	1	17	-	17	3	-	3	20	-	20
Soil and Water Conservation										
Integrated Nutrient Management	5	78	-	78	17	-	17	95	-	95
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient										

deficiency in crops										
Nutrient Use Efficiency										
Soil and Water Testing	2	30	-	30	6	-	6	36	-	36
IV Livestock Production and Management										
Dairy Management	1	7	-	7	12	-	12	19	-	19
Poultry Management										
Piggery Management	1	9	-	9	11	-	11	20	-	20
Rabbit Management										
Disease Management	3	35	-	35	22	1	23	57	1	58
Feed management	4	24	31	55	15	-	15	39	31	70
Production of quality animal products										
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet	1	-	24	24	-	-	-	-	24	24
Designing and development for high nutrient efficiency diet	1	-	33	33	-	7	7	-	40	40
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Storage loss minimization techniques	1	-	18	18	-	2	2	-	20	20
Value addition										
Income generation activities for empowerment of rural Women										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child										

care										
VI Agril. Engineering										
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										
VII Plant Protection										
Integrated Pest Management	6	89	-	89	22	-	22	111	-	111
Integrated Disease Management	1	19	-	19	-	-	-	19	-	19
Bio-control of pests and diseases	1	15	-	15	2	-	2	17	-	17
Production of bio control agents and bio pesticides										
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster										

farming										
Pearl culture										
Fish processing and value addition										
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										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics	1	16	-	16	4	-	4	20	-	20
Formation and Management of SHGs										
Mobilization of social capital	1	17	-	17	3	-	3	20	-	20
Entrepreneurial development of farmers/youths	2	24	-	24	23	-	23	47	-	47
WTO and IPR issues										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
TOTAL	**42**	**544**	**106**	**650**	**175**	**10**	**185**	**719**	**116**	**835**

(B) RURAL YOUTH										
Mushroom Production										
Bee-keeping										
Integrated farming										
Seed production										
Production of organic inputs										
Integrated Farming										
Planting material production										
Vermi-culture										
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit production										
Repair and maintenance of farm machinery and implements										
Nursery Management of Horticulture crops	1	26	-	26	3	-	3	29	-	29
Training and pruning of orchards										
Value addition	4	29	127	156	2	8	10	31	135	166
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Para vets										
Para extension workers										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Small scale										

processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
TOTAL	**5**	**55**	**127**	**182**	**5**	**8**	**13**	**60**	**135**	**195**
(C) Extension Personnel										
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Formation and Management of SHGs										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Care and maintenance of farm machinery and implements										
WTO and IPR issues										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Women and Child care										
Low cost and nutrient efficient diet designing										
Production and use of organic inputs										
Gender mainstreaming through SHGs										
TOTAL										

C) Consolidated table (ON and OFF Campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	1	17	-	17	4	-	4	21	-	21
Resource Conservation Technologies										
Cropping Systems	1	11	-	11	10	-	10	21	-	21
Crop Diversification										
Integrated Farming										
Water management										
Seed production										
Nursery management	1	14	-	14	4	-	4	18	-	18
Integrated Crop Management										
Fodder production										
Production of organic inputs										
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	4	66	-	66	11	-	11	77	-	77
Off-season vegetables	1	14	-	14	6	-	6	20	-	20
Nursery raising										
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization										
Protective cultivation (Green Houses, Shade Net etc.)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	1	18	-	18	2	-	2	20	-	20
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation										

systems of orchards										
Plant propagation techniques										
c) Ornamental Plants										
Nursery Management	2	32	-	32	6	-	6	38	-	38
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants	1	4	-	4	16	-	16	20	-	20
d) Plantation crops										
Production and Management technology										
Processing and value addition										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
f) Spices										
Production and Management technology										
Processing and value addition										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology	1	22	-	22	-	-	-	22	-	22
Post harvest technology and value addition	1	30	40	70	-	-	-	30	40	70
III Soil Health and Fertility Management										
Soil fertility management	1	17	-	17	3	-	3	20	-	20
Soil and Water Conservation										
Integrated Nutrient Management	5	78	-	78	17	-	17	95	-	95
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										

Nutrient Use Efficiency										
Soil and Water Testing	2	30	-	30	6	-	6	36	-	36
IV Livestock Production and Management										
Dairy Management	1	7	-	7	12	-	12	19	-	19
Poultry Management										
Piggery Management	1	9	-	9	11	-	11	20	-	20
Rabbit Management										
Disease Management	3	35	-	35	22	1	23	57	1	58
Feed management	5	41	31	72	15	-	15	56	31	87
Production of quality animal products										
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	9	11	20	-	-	-	9	11	20
Design and development of low/minimum cost diet	1	-	24	24	-	-	-	-	24	24
Designing and development for high nutrient efficiency diet	1	-	33	33	-	7	7	-	40	40
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Storage loss minimization techniques	2	-	34	34	-	2	2	-	36	36
Value addition										
Income generation activities for empowerment of rural Women	1	-	24	24	-	6	6	-	30	30
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										

VI Agril. Engineering										
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										
VII Plant Protection										
Integrated Pest Management	8	121	-	121	24	-	24	145	-	145
Integrated Disease Management	1	19	-	19	-	-	-	19	-	19
Bio-control of pests and diseases	1	15	-	15	2	-	2	17	-	17
Production of bio control agents and bio pesticides										
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										

Pearl culture										
Fish processing and value addition										
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										
X Capacity Building and Group Dynamics										
Leadership development	1	6	-	6	12	-	12	18	-	18
Group dynamics	1	16	-	16	4	-	4	20	-	20
Formation and Management of SHGs										
Mobilization of social capital	1	17	-	17	3	-	3	20	-	20
Entrepreneurial development of farmers/youths	2	24	-	24	23	-	23	47	-	47
WTO and IPR issues										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
TOTAL	**53**	**672**	**197**	**869**	**213**	**16**	**229**	**885**	**213**	**1098**

(B) RURAL YOUTH										
Mushroom Production	1	15	1	16	5	-	5	20	1	21
Bee-keeping	1	17	3	20	3	-	3	20	3	23
Integrated farming										
Seed production										
Production of organic inputs	1	13	1	14	5	1	6	18	2	20
Integrated Farming										
Planting material production										
Vermi-culture										
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit production										
Repair and maintenance of farm machinery and implements										
Nursery Management of Horticulture crops	1	26	-	26	3	-	3	29	-	29
Training and pruning of orchards										
Value addition	5	29	147	176	2	12	14	31	159	190
Production of quality animal products										
Dairying	1	31	14	45	3	3	6	34	17	51
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1	18	-	18	4	-	4	22	-	22
Ornamental fisheries										
Para vets										
Para extension workers										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Small scale	1	2	21	23	-	1	1	2	22	24

processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
TOTAL	**12**	**151**	**187**	**338**	**25**	**17**	**42**	**176**	**204**	**380**
(C) Extension Personnel										
Productivity enhancement in field crops	2	50	-	50	-	-	-	50	-	50
Integrated Pest Management	3	75	-	75	-	-	-	75	-	75
Integrated Nutrient management	2	50	-	50	-	-	-	50	-	50
Rejuvenation of old orchards										
Protected cultivation technology	1	25	-	25	-	-	-	25	-	25
Formation and Management of SHGs										
Group Dynamics and farmers organization	1	25	-	25	-	-	-	25	-	25
Information networking among farmers										
Capacity building for ICT application	1	25	-	25	-	-	-	25	-	25
Care and maintenance of farm machinery and implements										
WTO and IPR issues										
Management in farm animals										
Livestock feed and fodder production	1	25	-	25	-	-	-	25	-	25
Household food security	1	20	-	20	-	-	-	20	-	20
Women and Child care	2	-	48	48	-	-	-	-	48	48
Low cost and nutrient efficient diet designing	1	25	-	25	-	-	-	25	-	25
Production and use of organic inputs										
Gender mainstreaming through SHGs										
TOTAL	15	320	48	368	-	-	-	320	48	368

Note: Please furnish the details of above training programmes as <u>Annexure</u> in the proforma given below

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off / On Campus)	Number of other participants			Number of SC/ST			Total number of participants		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
16/4/14	PF	Care and management of dairy calves.	AH	Dairy Management	One day	Off campus	7	-	7	12	-	12	19	-	19
03/04/14	PF	Crop residues management	Agro	-	One day	Off campus	17	-	17	4	-	4	21	-	21
17/04/14	PF	Integrated pest management of Okra	PP	IPM	One day	Off campus	16	-	16	4	-	4	20	-	20
29/04/2014	PF	Establishment of medicinal & nutritional kitchen garden	Hort	Production & mgt. tech.	One day	Off campus	22	-	22	-	-	-	22	-	22
30/4/14	PF	Adolescent girls on balanced diet for better health	HS	Design & development for high nutrient efficiency diet	One day	Off campus	-	33	33	-	7	7	-	40	40
02/05/14	PF	Ornamental gardening	Hort	Nursery Mgt	One day	On campus	16	-	16	4	-	16	20	-	20
20/05/14	PF	Technological intervention in paddy crop	AE	Mobilization of social capital	One day	Off campus	17	-	17	3	-	3	20	-	20
23/05/14	PF	Use of pheromone trap in cucurbits	PP	IPM	One day	On campus	14	-	14	2	-	2	16	-	16
29/05/2014	PF	Nursery management of paddy	Agro.	Nursery Mgt	One day	On campus	14	-	14	4	-	4	18	-	18
28/06/14	PF	Establishment of new orchard	Hort	Layout & Mgt. of orchard	One day	Off campus	18	-	18	2	+	2	20	+	20
25/06/14	PF	Production technology of paddy	Agro	Cropping system	One day	Off campus	11	-	11	10	-	10	21	-	21
25/0	PF	Integrated	PP	IPM	One day	Off campus	19	-	19	-	-	-	19	-	19

6/14		disease management in kharif vegetables													
27/06/2014	PF	Vaccination of dairy animals	AH	Disease Mgt.	One day	Off campus	15	-	15	2	-	2	17	-	17
7/06/2014	PF	Safe storage of food grain	HS	Storage loss mini. Techniq ue	One day	Off campus	-	23	23	-	3	3	-	26	26
28/06/2014	PF	Green manuring crops	SS	Soil fertility	One day	Off campus	17	-	17	3	-	3	20	-	20
19/07/14	PF	Kitchen gardening in urban area	HS	House hold food security	One day	Off campus	5	11	16	-	-	-	5	11	16
10/07/14	PF	Production technology of kharif season vegetables	Hort	Production of low & high vale crop	One day	Off campus	14	-	14	2	-	2	16	-	16
30/07/14	PF	Nutritional Garden	HS	House hold food security	One day	On campus	9	11	20	-	-	-	9	11	20
14/07/2014	PF	Feeding of dairy animal during lean period	AH	Feed Mgt	One day	Off campus	-	20	20	-	2	2	-	22	22
17/07/2014	PF	Use of calcium in the ration of dairy animals	AH	Feed Mgt	One day	Off campus	5	11	16	1	-	1	6	11	17
5/07/2014	PF	Management of paddy pest by bio agents	PP	Bio control of pest & disease	One day	Off campus	15	-	15	2	-	2	17	-	17
11/08/14	PF	Nursery raising of kharif season vegetable	Hort	Nursery mgt	One day	Off campus	14	-	14	6	-	6	20	-	20
19/07/14	PF	Marigold Production technology	Hort	Production of low & high vale crop	One day	Off campus	14	-	14	2	-	2	16	-	16
14/08/14	PF	IPM of cucurbits crop	PP	IPM	One day	Off campus	14	-	14	6	-	6	20	-	20

27/08/2014	PF	Method of soil and water sampling	SS	Soil & water testing	One day	Off campus	13	-	13	5	-	5	18	-	18
11.9.2014	EF	Kharif crops	Hort	Productive enhancement in field crops	One day	On campus	25	-	25	-	-	-	25	-	25
12.9.2014	EF	Kharif crops	Hort	Productive enhancement in field crops	One day	On campus	25	-	25	-	-	-	25	-	25
19.9.2014	EF	Organic farming & its certification	Hort	INM	One day	On campus	25	-	25	-	-	-	25	-	25
24/09/2014	PF	Metabolic disease of dairy animals	AH	Disease mgt	One day	Off campus	18	-	18	2	-	2	20	-	20
01/10/2014	PF	Preparation of balanced ration for dairy animals	AH	Feed mgt	One day	On campus	17	-	17	-	-	-	17	-	17
09/10/2014	EF	Sorting, grading postharvest management of horticultural crops	Hort	Household food security	One day	On campus	20	-	20	-	-	-	20	-	20
17/10/2014	EF	Climate change management for livestock	AH	Livestock feed & fodder production	One day	On campus	25	-	25	-	-	-	25	-	25
21/11/2014	EF	Preservation of fruits & vegetables	HS	Low cost & nutrient efficient diet design	One day	On campus	25	-	25	-	-	-	25	-	25
11/1	EF	Low cost	HS	Women & child	One day	On campus	-	24	24	-	-	-	-	24	24

1/2014		nutritious recepies for mother & child		care											
12/11/2014	EF	Low cost nutritious recepies for mother & child	HS	Women & child care	One day	On campus	-	24	24	-	-	-	-	24	24
10/12/2014	EF	Rabi crops	PP	IPM	One day	On campus	25	-	25	-	-	-	25	-	25
11/12/2014	EF	Rabi crops	PP	IPM	One day	On campus	25	-	25	-	-	-	25	-	25
16/12/2014	EF	Safe judicious use of pesticide for food safety & quality with reference to food standard of other countries	PP	IPM	One day	On campus	25	-	25	-	-	-	25	-	25
16/12/2014	EF	Integrated nutrient, pest & disease management in cropping system	PP	INM	One day	On campus	25	-	25	-	-	-	25	-	25
30/12/2014	EF	Use & benefit of sprinkler	Hort	Protected cultivation	One day	On campus	25	-	25	-	-	-	25	-	25

		& drip irrigation & use of net & green house in agricultu re & horticult ure													
15/1 0/20 14	PF	Integrated pest manageme nt in mustard	PP	IPM	One day	On campus	18	-	18	-	-	-	18	-	18
07/1 0/20 14	PF	Production technology of rabi season vegetable	Hort	Producti on of low & high vale crop	One day	Off campus	12	-	12	3	-	3	15	-	15
18/1 0/20 14	PF	Integrated pest manageme nt in Cauliflowe r	PP	IPM	One day	Off campus	11	-	11	8	-	8	19	-	19
08/1 0/20 14- 14/1 0/20 14	RY	Cultivation of White Button Musroom	PP	Mushroo m producti on	seven days	On campus	15	1	16	5	-	5	21	-	21
29/1 1/20 14	PF	Integrated nutrient manageme nt in vegetables	Hort	INM	One day	Off campus	14	-	14	3	-	3	17	-	17
27/1 1/20 14	PF	Entreprene urship developme nt	AE	Entrepre neurship develop ment	One day	Off campus	21	-	21	5	-	5	26	-	26
24/1 1/20 14	PF	Piggery a profitable business to agriculture	AH	Piggery mgt	One day	Off campus	9	-	9	11	-	11	20	-	20
25/1 1/20 14	PF	Processing & marketing of medicinal plant	Hort	PHT & VA	One day	On campus	30	40	70	-	-	-	30	40	70

12/12/2014	PF	INM in vegetable	Hort	INM	One day	Off campus	16	-	16	5	-	5	21	-	21
3/12/2014	PF	Importance of balance fertilizer in rabi crops	SS	INM	One day	Off campus	17	-	17	3	-	3	20	-	20
5/12/2014	PF	IPM in rabi crops	PP	IPM	One day	Off campus	17	-	17	-	-	-	17	-	17
2/1/2015	PF	Production technology of rabi onion	Hort	Production of low & high vale crop	One day	Off campus	16	-	16	4	-	4	20	-	20
20/1/2015	PF	Insect & disease management of wheat	PP	IPM	One day	Off campus	17	-	17	-	-	-	17	-	
21/1/2015	PF	Management of termite	PP	IPM	One day	Off campus	14	-	14	4	-	4	18	-	18
5/1/2015	PF	Use of kisan mobile advisory	AE	Group dynamics	One day	Off campus	16	-	16	4	-	4	20	-	20
21/1/2015	PF	Feed management of dairy animals during winter season	AH	Feed mgt	One day	Off campus	15	-	15	2	-	2	17	-	17
17/1/2015	PF	Nutritional value & processing of mushroom	HS	Storage loss mini. Techniqu e	One day	On campus	-	16	16	-	-	-	-	16	16
21/1/2015	PF	Integrated nutrient management of rabi crop	SS	INM	One day	Off campus	15	-	15	2	-	2	17	-	17
18/2/2015	PF	Micro entrepreneurship promotion in agriculture	AE	Entrepreneurship development	One day	Off campus	3	-	3	18	-	18	21	-	21
23/2/2015	EF	Tips & strategy of extension staff & farmers	AE & PA (comp)	Capacity building for ICT application	One day	On campus	25	-	25	-	-	-	25	-	25

25/2/2015	EF	Good agricultural practices & its certification of extension staff & farmers	AE & PA (comp)	Group dynamics	One day	On campus	25	-	25	-	-	-	25	-	25
26/2/2015	PF	Production technology of Okra	Hort	Production of low & high vale crop	One day	Off campus	18	-	18	2	-	2	20	-	20
19/2/2015	PF	Dewarming of dairy animal	AH	Disease mgt	One day	Off campus	2	-	2	18	1	19	20	1	21
20/3/2015	PF	Farm women on nutrition for better health	HS	Design & development for high nutrient efficiency diet	One day	Off campus	-	24	24	-	-	-	-	24	24
26/2/2015	PF	Development of marketing skills of value added products	HS	Income generation activities for empowerment of rural women	One day	On campus	-	24	24	-	6	6	-	30	30
19/3/2015	PF	Method of soil sampling	SS	Soil & water testing	One day	Off campus	17	-	17	1	-	1	18	-	18
21/3/2015	PF	Improvement of poor quality roughages through urea treatment	AH	Feed Mgt	One day	Off campus	4	-	4	12	-	12	16	-	16
20/3/2015	PF	Sustainable marketing strategies	AE	Leadership development	One day	On campus	6	-	6	12	-	12	18	-	18
25/3/2015	PF	Balanced use of fertilizer in wheat	SS	INM	One day	Off campus	16	-	16	4	-	4	20	-	20

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
					Male	Female	Total	Type of units	Number of units	Number of persons employed	
Fruits & vegetable	9-13/05/14	Preservation and processing of fruits, juices/pulps	Value addition	5	-	26	26	Cottage scale	1	2	-
Fruits & vegetable	26-31/05/14	Entrepreneurship development among women SHG's on preservation and processing of fruit and vegetables	Value addition	6	-	32	32	-	-	2	-
Hort. Crop	24-30/07/14	Landscaping & gardening	Nursery mgt of hort. Crops	7	26	-	26	Small nursery	1	2	-
Fruits & vegetable	6-8/08/14	Fruits& Vegetable preservation	Value addition	3	-	47	47	-	-	-	-
Fruits & vegetable	20-21/08/14	Processing of fruits & vegetable	Value addition	3	-	37	37	-	-	-	-
Dairy animals	5-11/08/14	Dairy farming a profitable Subsidiary business to agriculture	Dairy mgt	7	34	17	51	Small scale	6	10	-
Poultry birds	18-23/09/14	Poultry farming a profitable business to agriculture	Poultry mgt	6	22	-	22	Small scale	2	4	-
Fruits & vegetable	2-3/09/14	Preservation & Processing of fruits & vegetables	Value addition	3	10	38	48	-	-	-	-
Fruits & vegetable	10-16/12/14	Preservation & processing of fruits & vegetable	Value addition	7	2	18	20	Small scale	2	4	-
Bee keeping	8-13/1/15	Bee keeping	Bee keeping	6	20	3	23	Small scale	4	8	-
Vermicompost	12-16/2/15	Production technology of vermi compost & vermi culture	Vermicompost production	5	18	2	20	Small scale	3	3	-

*training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes

Sl.No	Date	Title	Discipline	Thematic area	Duration (days)	Client (PF/RY/EF)	No. of courses	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
								Others			SC/ST			Total				
								Male	Female	Total	Male	Female	Total	Male	Female	Total		
Total																		

6. Extension Activities (including activities of FLD programmes)

Sl. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of activities	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	Field Day	**Calcium Supplementation 2.12.14**	**1**	**-**	**43**	**43**	**-**	**7**	**7**	**-**	**-**	**-**	**-**	**50**	**50**
2.	Field Day	**Wheat 26.3.15**	**1**	**39**	**-**	**39**	**2**	**-**	**2**	**-**	**-**	**-**	**41**	**-**	**41**
3.	Field day	**Nutritional Kitchen Garden 22.1.15**	**1**	**-**	**43**	**43**	**-**	**7**	**7**	**-**	**-**	**-**	**-**	**50**	**50**
	Total		**3**	**39**	**86**	**125**	**2**	**14**	**16**	**-**	**-**	**-**	**41**	**100**	**141**
4.	Kisan Mela	-	-	-	-	-	--	-	-	-	-	-	-	-	-
5.	Kisan Mela	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Total														
6.	Kisan Ghosthi	Kharif Diwas 16.5.14 Supplementation mineral mixture 17.5.14 Sarson ki unnat kheti 1.10.14 Wheat 28.1.14	4	132	-	132	43	-	43	-	-	-	175	-	175
7.	Exhibition	Pusa hort Show 28.2.15 Pusa Kisan Mela 10-12.3.15 Inter Session Meeting, KVK, sikohpur 16-17.2.15	3	5200	600	5800	600	300	900	50	-	50	5850	900	6750
8.	Film Show	• KVK Documentary • Mineral mixture	8	166	20	186	46	2	48	-	-	-	212	22	234

		feeding to animals • Clean milk production • Backyard poultry farming • Poultry farming in rural areas • Bee keeping • White button mushroom cultivation • Onion production													
9.	Method Demonstrations	• Methods of Soil and water sampling 19.04.2014 • Method Demonstration on Straw Combine 03.04.2014 • Method of Tricoderma multiplication with FYM 17.05.2014 • Use of mineral mixture in dairy animals 17.05.2014	8	82	46	128	-	-	-	-	-	-	82	46	128

		• Improvement of nutritional status of wheat straw through urea treatment 17.07.2014 • Fumigation in stored grains 14.07.2014 ▪ Vegetable seedling treatment in bio fungicide 27.11.2014 • Preparation of mushroom pickles & mushroom pakoda. 17/1/2015													
10.	Farmers Seminar	• State Level Seminar 19-20.12.14	1	100	190	290	30	40	70	-	-	-	130	230	360
11.	Workshop	-													
12.	Group meetings	-	21	135	-	135	40	-	40	-	-	-	175	-	175
13.	Lectures delivered as resource persons	-	46	908	813	1721	-	35	35	-	-	-	908	848	1756
14.	Newspaper coverage	• *Vayavsaiek prasikchan sampann*, Dainik Jagaran, New Delhi, on 31.07.2014. • *Bagwani visai par prasikchan sampann,*	7	-	-	-	-	-	--	-	-	--	-	--	-

		Dainik Jagaran, New Delhi, on 1.08.2014. • *Pasupalko ko di vishesagyo ne jankari,* Dainik Jagaran, New Delhi, on 14.08.2014 . • *Murgi palan ka parshiksha n,* Dainik Jagaran, New Delhi, on 24.09.2014 . • *Ujwa mein Musroom utpadan ka diya gaya vyavsaik prashiksha n,* Dainik Jagaran, New Delhi, on 17.10.2014 . • *Kumbh utpadan par sat diwsiya prashiksha n sampann* Hari Bhoomi, New Delhi, on 15.10.2014 . • *Krishi vigyan Kendra mein unnat beij uplabdh,* Dainik Jagaran,													

		New Delhi, on 30.10.2014 .													
15.	Radio talks	▪ Pest Management in cash crop 18.05.2014 ▪ Production technology of Basmati rice 22.05.2014 ▪ Feed & disease management of layer poultry 23.06.2014 ● Kam pani me kharif mausam me ugayi jane wale phasal 17.07.2014 ● Disease and insect control of cucurbits crop 25.08.2014 ● Feed management of dairy animals 29.08.2014 ● Employment generation through food processing 19.08.2014 ● Krishi Vikash me KVK ke bhumika & Paricharcha – Pyaj ki kheti: 5.09.2014 ● Phone in programe on	16												

		livestock management 7.10.2014 • Production of winter season vegetables 11.11.2014 • Sawrojgar ke liye kooshal vikas ki aavshykta 5.12.2014 • Bio security management for poultr: 4.12.2014 ▪ Piggery a profitable subsidiary business 2.1.2015 ▪ Layer poultry management 20.1.2015 ▪ Poultry farming 25.2.2015 ▪ Empowerment of women by KVK, Ujwa 11.3.2015													
16.	TV talks	▪ Integrated insect management of summer vegetable 16.4.2014 ▪ Offseason vegetable cultivation 16/04/2014 ▪ Value addition in Maize, Sweet corn and Baby	25	-	-	-	-	-	-	-	-	-	-	--	-

		corn 10.04.2014 ▪ Value addition in Baby corn 30.04.2014 ▪ Interview on poultry farming 12.5.2014 ▪ Interview on goat farming covered by Krishi 28/05/2014 ▪ Storage of wheat in ahouse for a year 21/05/2014 ▪ Madhumakhi palan ka garmeyo evam barsat mein parbhandhan 11.6.2014 ▪ Earning year long profit by processing of fruits & vegetables 18.6.2014 ▪ *Management of kharif crops during late monsoon* 18.7.2014 ▪ *Boiler poultry management in rainy season* 30/7/2014 ▪ *Management of dairy animals during late monsoon condition* 27/7/2014 ▪ *Management of Pig*													

		Farming 27.8.2014 ▪ *Insect management of cucurbits crop* 13/08/2014 ▪ *Mushroom cultivation & processing* 17.9.2014 ▪ *Poultry farming a profitable business* 06.10.2014 ▪ *Sarson ki unnat kheti* 09.10.2014 ▪ *Value addition in maize* 22.10.2014 ▪ *Question-answer of letters of farmers to animal husbandry* 28.11.2014 ▪ *Mushroom production technology* 6.1.2015 ▪ *Kisan Challen recording of Programme on Scientist & Farmers Questionnaire* 11.2.2015 ▪ *Kisan Challen recording of Programme on Scientist & Farm*													

		women Questionnaire 11.2.2015 ▪ *Programme on Dairy Farming* 26.2.2015 ▪ *Diet for farmer & women* 27.3.2015 ▪ *Short duration vegetable crops sowing after wheat & mustard* 27.3.2015													
17.	Popular articles	▪ Impact of front line demonstration on adoption of improved practices of oilseed crop	1	-	-	-	-	--	-	-	-	-	-	-	-
18.	Extension Literature	▪ Sanshipt Parichay KVK ▪ Bahu upyogi solar dehydrator ▪ Lahsun ki unnta kheti ▪ Pyaj ki unnat kheti ▪ Moong ki vygyanik kheti ▪ Technical bulletin of Bajra Processing ▪ Button musroom ka utpadan ▪ Khumb utpadan	15	2000	50	2050	550	25	575	-	-	-	2550	75	2625

		▪ Kaise kare surkshit khadyan Bandar ▪ Pyaj bhandar ki unnat vidhiya ▪ Susk khetro ke liye awala ki labhkari kheti ▪ Suar palan ▪ Gandha ki unnat utpadan techniki ▪ Gheu ki unnat kheti ▪ Phal sabgiyon ka prirchan													
19.	Advisory Services	-	835	605	-	605	230	-	230	-	-	-	835	-	835
20.	Scientific visit to farmers field	-	117	250	13	263	57	9	66	-	-	-	307	22	329
21.	Farmers visit to KVK	-	952	720	16	736	214	2	216	-	-	-	934	18	952
22.	Diagnostic visits	-	86	175	-	175	60	-	60	-	-	-	235	-	235
23.	Exposure visits	▪ Visit to Layer poultry farm 22/9/2014 ▪ Boiler poultry farm 23/9/2014 ▪ Mushroom unit 13/10/2014	3												
24.	Ex-trainees Sammelan	Ex-trainees Sammelan	1	40	-	40	-	-	-	-	-	-	40	-	40
25.	Soil health Camp	Soil health Camp	1	14	-	14	2	-	2	-	-	-	16	-	16
26.	Animal Health Camp	-													
27.	Agri mobile	-													

	clinic														
28.	Soil test campaigns	Soil test campaigns	1	15	-	15	3	-	3	-	-	-	18	-	18
29.	Farm Science Club Conveners meet	Farmer's Club	27	259	-	259	71	-	71	-	-	-	330	-	330
30.	Self Help Group Conveners meetings	SHG's	46	-	791	791	-	122	122	-	-	-	-	913	913
31.	Mahila Mandals Conveners meetings	-													
32.	Celebration of important days (specify)	• Celebration of Breast feeding, Day on 01-07.08.2014 • Nutrition week, 01-07.2014 • Van mohtsav, 17/08/2014 • World Food Day, 16.10.14	4	-	158	158	-	101	101	-	-	-	-	259	259
33.	Others	Seed Treatment Campiagn	2	104	-	104	15	-	15	-	-	-	119	-	119
		Late mansoon campaign	1	25	-	25	8	-	8	-	-	-	33	-	33
		Breed Improvment of Dairy Animal Campiagn	2	30	-	30	6	-	6	-	-	-	36	-	36
		Award Received	3	3	-	3	-	--	-	-	-	-	3	-	3
		Work shop attended	2	2	-	2	-	-	-	-	-	-	2	-	2
		Conference attended	2	3	-	3	-	-	-	-	-	-	3	-	3
		Seminar attended	2	2	-	2	-	-	-	-	-	-	2	-	2
		Training received	3	6	-	6	-	-	-	-	-	-	6	-	6
	Grand Total	-	2245	10976	2697	13673	1975	636	2611	50	-	50	13001	3333	16334

* Example for guidance only

6. B. Kisan Mobile Advisory Services

Kisan Mobile Advisory									
Name of the KVK	**No. of farmers Covered**	**No. of Messages (Text)**	**Type of messages**						
			Crop	**Livestock**	**Weather**	**Marketing**	**Awareness**	**Other enterprise**	**Any other**
KVK, Ujwa, Delhi	5202	8	Paddy						
	417	5	Onion						
	689	7		Buffaloes /Cows					
	3231	14	Vegetables-Tomato, brinjal, chilli & early cauliflower						
	105	1	Bajra						
	50	1	-	Poultry					
	5025	3	Wheat	-					
	538	2	Bottle guard	-					
	444	1	Tomato & potato	-					
	1000	1	Mustard	-					
	157	1	Cauliflower	-					
	200	1	Okra	-					
	102	1	Marigold	-					
	44	1	Radish	-					
	26	1	Palak	-					
	236	1	Tomato	-					

6.C. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS during 2014-15: NA

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

7. Production and supply of Technological products

A) SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Wheat	HD -2967	81.84	204600	204
OILSEEDS	Mustard	Pusa Vijay	104.00	676000	5200
PULSES					
VEGETABLES	Palak	Pusa All Green	4.66	22368	58
FLOWER CROPS					
OTHERS (Specify)					

*An example for guidance only

B) PLANTING MATERIALS : NA

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
SPICES					
VEGETABLES					
FOREST SPECIES					
ORNAMENTAL CROPS					
PLANTATION CROPS					
Others (specify)					

*An example for guidance only

C) BIO PRODUCTS :NA

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS						
1						
2						
3						
4						
BIOFERTILIZERS						
1						
2						
3						
4						
BIO PESTICIDES						
1						
2						
3						
4						

D) LIVESTOCK : NA

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs		
Cattle						
SHEEP AND GOAT						
POULTRY						
FISHERIES						
Others (Specify)						

*** An example for guidance only**

PART 8 – PUBLICATION, SUCCESS STORY, SWTL, TECHNOLOGY WEEK AND DROUGHT MITIGATION

8. Literature Developed/Published (with full title, author & reference)

(A) KVK News Letter – Krishi Vahini, Half yearly, 200 copy

(B)

(C) Literature developed/published

Item	*Title*	*Authors name*	*Number of copies*
Research papers	• "Impact of front line demonstration on adoption of improved practices of oilseed crop. Indian Res.J.Ext. Edu. 14(3) September, 2014, Page 75-77.	*Anuj Kumar Singh,Kinjulck C. Singh,* ***Y.P. Singh*** *& D.K. Singh*:	NA
Technical reports	• SAC Proceeding	KVK	35
	• State Level Seminar	KVK	2
Technical bulletins			
Popular articles	• Article on Diversification brings prosperity in Indian Horticulture magazine of ICAR in March-April 2014 issue • Article on Grih vatika-poshan va swasthya ka aadhar published in Phal-phool magazine of ICAR in July- Aug 2014 issue.	Mrs. Ritu Singh Rashmi Singh & Sh. Rakesh Kumar & Mrs. Ritu Singh Sh. Rakesh Kumar & Mrs. Ritu Singh	NA
Training Manual	• Maa aur bachoo ke liye kam lagat me banae wale postik vyanjan • Phal ras/ gudde ka parshikshan evam parsankaran • Booklet		25 25 25
Extension literature			
Folders /leaflets			
TOTAL			**112**

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number

9.A. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)

The success stories/case studies with good action photographs (with captions) should be 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 success stories/case studies are furnished below

TITLE

Introduction

KVK intervention

Output

Outcome

Impact

9.B. Give details of innovative methodology/technology developed and used for Transfer of Technology during the year 2014-15

- Use of herbicide formulation viz. Sulphosulfuron 75 % + Metsulfuron 5% @ 40 g/ha. and Cloidinofop 15% + Metsulfuron 1% @ 400 g/ha. against control of mixed weed flora in wheat (Spray at 35 DAS)
- Use of Cartap Hydrochloride 4G found promising for the management of leaf folder and stem borer in paddy @7.5 kg/acre (Broadcasting on occurrence of pest).
- Use of Fertera found effective on control of stem borer and leaf folder in paddy @ 4 kg /acre (broadcasting at 30 DAT or occurrence of pest)
- Acephate 75WP@ 1.5 g/liter water effectively control of stem borer and leaf folder in paddy.
- Application of Bispyribac Sodium 10% (Nominee Gold) @ 100ml/acre is found effective in controlling post-emergence weeds in paddy.
- Use of DDVP (Dichlorvos) @ 400ml/acre is effective in controlling Brown Plant Hopper in paddy.
- Use of Bufrofenzine @ 330ml/acre is effective in controlling Brown Plant Hopper in paddy
- Production of spring summer season tomato for getting higher rates of produce.
- Adoption of low cost onion storage structures.
- Off season cultivation of bottle gourd and summer squash in low tunnel
- Early cucurbits production by raising seedlings in poly bags under protected structures.
- Use of Propiconazole 20EC found promising for the management of brown spots and sheath blight in paddy @ 200ml/acre (Spray in sept. - oct.).
- Use of Imidachlorpid 17.8EC found effective against leaf curl and white fly in tomato @ 50 ml/acre (Spray at 10 days interval).
- Use of Spinosad 45 EC @ 80 ml/acre is effective in controlling fruit borer in tomato, Brinjal and Okra.
- Use of pheromones traps and a spray of NSKE 5 % @ 5ml /liter water effectively control DBM in cauliflower.
- Use of NSKE 5 % controls DBM in cauliflower
- Seed treatment with Carbendazim 50 WP @ 10gm + 1 g streptocycline for 10 kg seed is effective for control of bakanae disease in paddy.
- Spray of Propiconazole 20EC @ 200ml/acre is found effective for management of rust disease in wheat.
- Two foliar spray of Gibbrelic acid (GA_3) @ 50ppm or Ethrel @ 200ppm at two and four leaf stage is helpful in sex modification of flowers to increase fruit yield in bottlegaurd.

- Use of Karathane found effective for the management of leaf spots, *Cercospora* spots, flower rot, bud rot and fruit rot in cucurbits @ 200 ml/acre (Spray at 10 days interval).
- Use of Profenophos+DDVP (Dichlorvos) found effective against fruit fly of cucurbits @ 250 ml/acre (spray at the 10 days interval).
- Use of Bifenthrin found promising for the management of termite in wheat @ 400 ml/acre with 20 kg sand, and broadcasting.
- Use of Cartap Hydrochloride 50SP found effective against Red pumpkin beetle in cucurbits @ 300gm/acre (Spray at 10 days interval).
- Three foliar spray of Boron 0.3% + Calcium chloride 0.2% + Ferrous ammonium sulphate 0.3% during preblooming stage at 15 days interval prevent flower & fruit drop and fruit cracking & rotting in tomato.
- Use of low cost solar dehydrator was found very effective in drying the horticultural crop especially and dry the product much faster rate as compare to open sun drying.
- Blanching of Bajra flour in hot water for 230 second and drying is found effective in increasing the shelf life of flour up to one month.
- Feeding of mineral mixture @ 40 gm/day/animal reduced the disease incidence in animal and increase milk production.
- Use of steam treated mustard cake in the diet of dairy animal is effective for increasing milk production.
- Adoption of improved sickle for harvesting is gaining

9.C. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Vegetable crop	The farmers puts the Cotton bolls on sticks on the boundary of fields and daily at the time of evening the cottons ball has been dipped in phenyl. Due to smell of phenyl the wild animal specially *Neel gai* are not entered in the fields	Protection against wild animal
2.	Cucurbits	Gugle smoke use for control of red pumpkin beetle	For control of red pumpkin beetle
3.	Wheat	Use of fresh neem leaves, matchstick, turmeric rhizome to prevent insect infestation during storage of grains	To control insect infestation in wheat during storage
4.	Animal	Use of Tarpin oil for control of Blot problem in Dairy animals	Prevention of Blot problem in Dairy animal
5.	Animal	Use of butter milk as dewormer in dairy animal	Control of worm infestation in dairy animals
6.	Dairy animals	Use of ghee	Proper exit of placenta
7.	Poultry	Use of tamarind water for treatment of Asitis in poultry birds	Prevention the problem of Asitis
8.	Dairy animal	Feeding of Gur with Mustard oil just after the calving for increasing milk production in dairy animals	Increase milk production
9.	Poultry birds	Bunch of neem leaves	Control of de beaking in birds
10.	Humans	Use of Rabdi a traditional soft drink against prevention of heat stroke	Protection against heat stroke in human beings

9.D. Indicate the specific training need analysis tools/methodology followed for

- **Identification of courses for farmers/farm women**
  Need assessment was made based on PRA reports, observations, field visits, interactions with farmers/farm women in meeting, field days etc. and detailed discussion with VLW's of target villages.
- **Identification of courses for rural youth**
  Identification of training needs of rural youth is identified through PRA, SWOT and interaction with rural youth, village elders and professional and courses are accordingly identified. The views of officials of line department are also taken in deciding the issues.
- **In-service personnel**
  Meeting with Joint Director (Ag.), Delhi Govt., Director Animal Husbandry, Delhi Govt. and The District Officer Social Welfare (South West), Deptt. of Social Welfare, Govt. of Delhi, held every year and the training programmes are organized as per the requirements. Feedback is also collected from participants of in service training course for their future training requirements.

9.E. Field activities

i. Number of villages adopted : 05 (Kair, Shikarpur, Tigipur, Ghogha, Samaspur Jagir)

ii. No. of farm families selected : 25 farm family from each village

iii. No. of survey/PRA conducted : Survey conducted in each of above 5 adopted villages

9.F. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Not established

1. Year of establishment :
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1			
2			
3			
Total			

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Plant Samples	140	140	25	Free service
Petiole Samples				
Total				

10. IMPACT

10.1 Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Poultry farming	135	9	-	Rs. 80,000/-Rs. 1.200000 per batch of2000-5000 broiler birds
Dairy farming	163	20	Rs. 30,000/- per annum small unit	Rs.80,000/annum for small unit. Rs.1.5 – 2.0 lakh/annum for big unit
Vegetable nursery raising	308	20	Rs.98825/ha/annnum	Rs 3.75 lakh/ha per annum
Land scaping & gardening	52	13	Nil (Unemployed)	Rs. 90000 /annum
Value addition in fruits & vegetable	723	11	Nil (Unemployed)	Rs.3,00,00,000/- per annum for big unit Rs. 50,000/annum for small unit
Bee keeping	533	7	Rs. 10,000/- per annum	Rs.80,000/- per annum
Mushroom Cultivation	269	8	Rs. 8,000/- per annum	Rs.40000/- per annum

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

10.2. Cases of large scale adoption
(Please furnish detailed information for each case)

- **Large scale adoption of high yielding and disease resistant Wheat variety HD 2967:**

Wheat is the main crop of the Delhi state during *rabi* season and it is grown in Nazafgarh and Alipur block. WH 711 and PBW 343 was the most popular variety of the area. But now these varieties have become susceptible to rust disease resulting in low quality and yield. The problem was discussed and it was decided that variety which is resistant to rust diseases and having high yield potential may be introduced in the area. Based on that in the year 2011-2012 Front Line Demonstrations on newly released wheat variety HD-2967 of IARI, New Delhi was organized by KVK. A massive campaign was launched by KVK, Delhi including *kharif* diwas, exposure visits, interaction with experts, diagnostic visits etc. for replacing the var. PBW-343 and WH 711 with HD-2967. The variety gave the average yield of 60 qtl/ha. Based on the performance of wheat var. HD-2967 in front line demonstrations the farmers accepted the technology at large scale. KVK Delhi produced the seed at the Farm and helped the farmers by providing good quality seed of variety HD-2967 at reasonable rates. The area under HD-2967 alone is about 65% in Delhi in 2014-15. Replacement of PBW 343/WH711 with HD-2967 has increased the farmers yield by an average of 5.25 qt./ha It has resulted in additional income of Rs. 9.36 Crore to farmers of NCT Delhi.

10.3 Details of impact analysis of KVK activities carried out during the reporting period

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Poultry farming	22	9	Nil	Rs. 49,000/-per batch of 5000 broiler birds
Dairy farming	51	20	Rs. 5,000/- per	Rs. 13,000/- per

			animal /year	animal /year
Vegetable nursery raising	42	25	Rs.98825/ha/annnum	Rs 3.75 lakh/ha per annum
Land scaping & gardening	27	28	Nil (Unemployed)	Rs. 90000 /annum
Value addition in fruits & vegetables	37	10	Nil (Unemployed)	Rs.48,000/- per annum.
Bee keeping	23	8	Rs. 10,000/- per annum	Rs.50000/- per annum
Mushroom Cultivation	21	4	Rs. 80,000/- per annum	Rs. 15000/- per annum

Popularization of technology through Electronic Media

During the year 2014-15, KVK emphasized on popularization of technologies through electronic media i.e. news paper, radio and TV coverage. During the year 25 TV talk were recorded for National Chanel in Krishi Darshan Programme. The 16 programmes on crop production, Mushroom production, IPM, off season vegetables, Bee keeping and management of dairy animals were broadcasted on All India Radio /Gayan Vani. 7 programmes were published in reputed news papers of Delhi edition.

2. Impact of diagnostic and advisory services of KVK:

S. No.	Problem diagnose	Control Measures	Cure %
1.	Fruit rot in tomato	Ridomil 2 g/litre water	60
2.	Fruit borer tomato and brinjal	Spinosad 200ml/ha	65
3.	Fruit fly of bottle gourd	• Acetamiprid @ 150gm/ha	70
4.	Thrips, in Onion	Imidachloroprid 1ml/3L water	75
5.	Leaf curl disease in tomato	• Imidachloroprid 1ml/3L water	45
6.	Yellow vein mosaic virus in okra	• Imidachloroprid 1ml/3L water	45
7.	Dampping off disease in Tomato, cauliflower & onion nursery	Copperoxychloride @2gm/L water +Streptocyclin @1gm/4L water	55
8.	Powderymeldew, Anthroconose disease, of Bottle gourd	• Karathane @ 300ml/ha. • Ridomil (Metalaxyle +moncozeb 72MZ) 2gm/L water	65
9.	Stem borer	• Cartaphydrochloride 4G @ 18.25 kg/ha or Fertera @ 10kg/ha	80
10.	leaf folder in paddy	• Acephate (70WP) 2gram/L water	90
11.	Post-emergence weed control in paddy	Bispyribac sodium 10% @ 100ml/acre	98
12.	Weed management in wheat crop	• Sulphosulfuron 75% + metsulfuron 5% @ 40 g/ha. • Clodinafop 15% + metsulfuron 1% @ 400 g/ha.	85%
13.	Low milk yield in dairy animals	• Agriminfort mineral mixture 40-50gm/day • Ostocalcium 100ml/day	60
14.	Retained of Placenta	• Exapar 200ml	50
15.	Heat problem	• Mineral mixture 40 -50gm/day • Hetone capsule	30
16.	Endo-parasite in calves	• Piprazine 15ml/dose • Albendazole 1.5gm/dose • Hitek injection 2- 3ml/dose	60
17.	Ecto-parasite in animals	Flumethrin 1% @ 1ml/kg bwt.	85
18.	Dysentery in calves	• Dyarok powder	80
19.	Bakanae disease in paddy	• Seed treatment wih Bavistine 2 g/kg seed and uprooting of nursery after irrigation.	65
20.	Brown plant hopper in paddy	• Dichlorvos (DDVP) @ 400 ml/acre • or Bufrofezine@1 lit./ha	70 80
21.	Termite is major insect problem in the area.	• Chloropyriphos (20EC) 1.5L/Acer	85

11.0 LINKAGES

11.1 Functional linkage with different organizations

Name of organization	Nature of linkage
National Horticultural Research & Development Foundation (NHRDF)	Parent organization of KVK; a duly recognized 'Scientific & Industrial Research Organization' (SIRO by Deptt. of Scienfic & Industrial Research, GOI, and a National Agency for implementation of National Horticulture Mission of GOI. Provides administrial, financial and technical logistics to KVK
CCS Haryana Agricultural University, Hisar	Technical support
Indian Agricultural Research Institute	Conducting training programmes and demonstrations/ Field visits/Resource persons
State Department of Agriculture	Training of extension functionaries
State Animal Husbandry Department	Collaborative animal camps, training of extension personnels/ Resource persons
National Horticultural Mission (Min. of Agriculture)	Seminars, Farmers' group visits through NHRDF, a National agency.
Khadi & Village Industries Commission, New Delhi	Field visits/Resource persons
National Bank of Agricultural and Rural Development	Participation in meeting, training
Mother Dairy, Delhi	Participation in meeting/ Field visit
Safal, Delhi	Participation in meeting/ Field visit
KVK- Sikohpur, Jhajjar	Field visits/Resource persons
Swami Sivananda Memorial Institute	Participation as resource person for training of urban and rural women for entrepreneurship development and nutrition awareness programmes and KVK guided on ICDS menu plan
Integrated Child Development Services	Training of AWW and Supervisors
Community Food Nutrition Extension Unit	Collaborative training and extension activities
Municipal Corporation of Delhi	Collaborative programme for the rural community
Directorate of Wheat Research	Conducting Frontline Demonstration
NCIPM	Joint implementation of Project
Don Bosco, Nazafgarh	Guidance by KVK on income generating activities and SHG strengthening.
The Najafgarh Farmer's Coop. Marketing Society	Technical guidance and farm advisory
Department of Education, Govt. of NCT Delhi	Technical guidance on nutrition education, carrer orientation in agriculture and its allied fields.
Rural Health Training Centre, Min. of Health & Family Welfare, GOI	Orientation of nursing students on KVK activities
Gram Vikas evam Kalayan Association, Delhi	Resource person & guidence on agri- ased enterprises
NRC Piggery	Privide training
Rao Tula Ram Hospital, Jaffarpur, New Delhi	For conducting on farm trials
Myrado, Nazafgarh, New Delhi	Lecture delivery
St. Stephens Hospital, Delhi	For conducting training
DIET, Ghumenheda, New Delhi	For conducting training

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

11.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
State level seminar	19-20 December, 2014	NHM through NHRDF	300000/-

11.3 Details of linkage with ATMA :NA

a) Is ATMA implemented in your district : No

S. No.	Programme	Nature of linkage	Remarks

Coordination activities between KVK and ATMA during 2014-15

S. No.	*Programme*	*Particulars*	*No. of programmes attended by KVK staff*	*No. of programmes Organized by KVK*	*Other remarks (if any)*
01	**Meetings**				
02	**Research projects**				
03	**Training programmes**				
04	**Demonstrations**				
05	**Extension Programmes**				
	Kisan Mela				
	Technology Week				
	Exposure visit				
	Exhibition				
	Soil health camps				
	Animal Health Campaigns				
	FFS				
06	**Publications**				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Others News coverage				
07	**Other Activities**				

11.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1	State Level Seminar	Financial support from NHRDF, host institution & designated National agency under NHM	-

11.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks

11.6. Details of linkage with RKVY

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

12. PERFORMANCE OF INFRASTRUCTURE IN KVK

12.1 Performance of demonstration units (other than instructional farm) -2014-15

Sl. No.	Demo Unit	Year of estt.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Vermicompost unit	2012-13	50 m^2	-	Compost	2937.5 Kg	4700	23500	
2	Mushroom Production Unit	2012-13	20 m^2	White button mushroom	Mushroom	29.7 kg	3740	2536	

12.2 Performance of instructional farm (Crops) including seed production

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Wheat	20.11.2014	15.4.2015	3.5	HD 3086	Seed	*	-	-	-
Wheat	20.11.2014	15.4.2015	2.0	HD 2967	Seed	*	-	-	-
Wheat	25.11.2014	15.4.2015	1.0	HD 2894	Grain	*	-	-	-
Wheat	14.11.2014	15.4.2015	1.0	HD 2851	Grain	*	-	-	-
Wheat	30.11.2014	15.4.2015	0.25	WH 1105	Grain	*	-	-	-
Wheat	30.11.2014	15.4.2015	0.25	DBW 88	Grain	*	-	-	-
Pulses									

Oilseeds									
Mustard	24.10.2014	27.3.2015	1.6	Pusa vijay	Seed	*	-	-	-
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Palak	22.10.2014	-	0.4	Pusa All Green	Seed	*	-	-	-
Others (specify)									

*****Under process

12.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	

12.4 Performance of instructional farm (livestock and fisheries production) :NA

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	

12.5 Utilization of hostel facilities: Facility not available

Accommodation available (No. of beds) =

Months	***No. of trainees stayed***	***Trainee days (days stayed)***	***Reason for short fall (if any)***
April 2014			
May 2014			
June 2014			
July 2014			
August 2014			
September 2014			
October 2014			
November 2014			
December 2014			
January 2015			
February 2015			
March 2015			

12.6. Database management

S. No	*Database target*	*Database created by the KVK*

12.7 Rainwater Harvesting

Training programmes conducted using Rainwater Harvesting Demonstration Unit :NA

Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total

Demonstrations conducted using Rainwater Harvesting Demonstration Unit ;NA

Date	Title of the Demonstration	Client (PF/RY/EF)	No. of Demos.	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total

Seed produced using Rainwater Harvesting Demonstration Unit :NA

Name of the crop	Quantity of seed produced (q)

Plant materials produced using Rainwater Harvesting Demonstration Unit :NA

Name of the crop	Number of plant materials produced

Other activities organized using Rainwater Harvesting Demonstration Unit :NA

Activity	No. of visitors
Visit of farmers	
Visit of officials	

13. FINANCIAL PERFORMANCE

13.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	-	-	-
With KVK	Bank of Maharashtra	Janakpuri, New Delhi	20027446105
	Bank of Baroda	Ujwa, New Delhi	21440100003810
	Bank of Baroda	Ujwa, New Delhi	21440100005208
	Bank of Baroda	Ujwa, New Delhi	21440100004152

13.2 Utilization of KVK funds during the year 2014-15 (up to March 2015)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	101.90	101.66	105.00
2	**Traveling allowances**	0.45	0.45	0.45
3	**Contingencies**	**4.75**	**4. 75**	**8.58**
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		**107.10**	**106.86**	**114.03**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)		**0**	**0**	**0**
C. REVOLVING FUND		0	0	0
GRAND TOTAL (A+B+C)		**107.10**	**106.86**	**114.03**

13.3 Status of revolving fund (Rs. in lakhs) for the last four years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2011 to March 2012	34.53	12.32	2.94	43.91
April 2012 to March 2013	43.91	13.59	3.44	54.06
April 2013 to March 2014	54.06	7.15	2.23	58.98
April 2014 to March 2015	58.98	9.50	4.03	64.45

14. Details of HRD activities attended by KVK staff during 2014-15

Name of the staff	*Designation*	*Title of the training programme*	*Institute where attended*	*Date*

15. Please include any other important and relevant information which has not been reflected above (write in detail).

Annexures

District Profile - I

Include the details of

1. General census

•	Total Population	1,67,53,235
•	Male	89,76,410
•	Female	77,76,825
•	Literacy Rate	86.34%
•	Sex Ratio	866
•	Total Geographical Area	1, 47, 488 Ha (1, 475 sq.kms)
•	No. of villages	191
•	Gross Cropped area	42084 ha

2. Agricultural and allied census

Area, Production and average yield in kg/ha of major crops in the district (2011-12)

S. N.	Name of Crops	Area (Ha)	Production (MT)	Productivity (Qtl/ha)
1.	I. Paddy	6068	296520	43.22
	II. Wheat	19450	848020	43.60
	III. Barley	65	1830	28.28
	IV. Bajra	1519	38150	18.78
	V. Maize	37	8280	19.50
	VI. Jowar	3319	300820	9.66
	VII. Gram	44	530	14.77
	VIII. Potato	689	146520	164.48
	IX. Oilseed	950	*	*
	X. S. Cane	3	2260	752.35
	Total	**32144**	**1642930**	**1094.64**
2.	Vegetable (Gross area)	13280	145900	*
3.	Flowers (Gross area)	5500	104370	*

Source: Development Department, Govt. of NCT Delhi; * Data for not available with NCT Delhi

3. Agro-climatic zones

S. No	Agro-climatic Zone	Characteristics
1	Trans- Gangatic Plains region (Zone VI)	Semi-Arid, Low rainfall, high temperature during summer (up to 48 degree C) Very low temperature during winter (up to 2 degree C), frost occur once or twice in the season.

4. Agro-ecosystems

S. No	Agro ecological situation	Characteristics
1	Agro-eco situation-9 Agro-ecological region -4, Agro-ecological sub region -4.1	Alluvial derived soil comprise the northern Indo-Gangatic plains

Source: NBSS & LUP, Regional station, IARI, New Delhi

5. Major and micro-farming systems

S. No	Farming system/enterprise
1.	Agriculture + Animal Husbandry
2.	Agriculture + beekeeping
3.	Agriculture + Value addition in fruits and vegetable
4.	Agriculture + Mushroom cultivation

6. Major production systems like rice based (rice-rice, rice-green gram, etc.), cotton based, etc.

S.No.	**Production based**	**Crop based**
1	Wheat/mustard based	Paddy - Wheat
		Fodder Sorghum/ Fodder Maize - Wheat
		Fallow - Mustard
		Moong - Wheat
		Arhar - Wheat
2	Vegetable based	Vegetable – Vegetable - Wheat
		Vegetable - Vegetable
		Paddy-Vegetable
		Vegetables - Wheat

7. Major agriculture and allied enterprises

- Cereal production
- Oilseed production
- Vegetable production
- Flower production
- Seed & plant material production
- Mushroom production
- Dairy
- Beekeeping
- Poultry
- Value addition of fruits and vegetables.

Agro-ecosystem Analysis of the focus/target area - II

Include

1. Names of villages, focus area, target area etc.

   Shikar Pur. Kair, Tigipur, Ghogha, Samaspur Jagir

   Focus Area: Agriculture enterprise and Animal Husbandry based enterprises.
   Target Area: Periurban Horticulture

2. Survey methods used (survey by questionnaire, PRA, RRA, etc.) : PRA

3. Various techniques used and brief documentation of process involved in applying the techniques used like release transect, resource map, etc.

   KVK has selected 5 villages in NCT Delhi. A structured bench mark survey was conducted to make proper assessment of the existing situation. This includes the assessment of the resource position of the selected villages and the farm families, information on different production systems with technology adoption, resource availability, farming situations, socio-economic status, farmers needs, market facilities, infra structure facilities etc. The data collected with the use of different PRA tools like transect map, chapatti diagram, time analysis survey, problem cause diagram etc. The data collected was supplemented with secondary data collected from village record maintained by the Patwari in block development office and agriculture and allied departments of state Government and statistical abstract.

4. Analysis and conclusions

   The problem cause analysis of the selected villages brought out several problems which are being tackled through appropriate interventions by KVK scientists. Suitable scientific interventions were selected for tackling the important problems during 2011-12 in close coordination with local research institutes and line departments.

5. List of location specific problems and brief description of frequency and extent/ intensity/severity of each problem

problem: The frequency and intensity of the location specific problems are scored on 5 – point scale.

Problem	Frequency	Intensity
1. Weed problem		
a)Fallow land	000	00000
b)Improper crop rotation	00	0000
c)Lack of awareness on weedicide application	000	0000
2. Poor soil health		
a)Imbalance use of fertilizer	00000	00000
b)Brackish water	000	0000
c)Minimum use of FYM	000	0000
3. Low adoptability of seed treatment		
a)Lack of knowledge	0000	0000
b)Unavailability of treated seed	000	000
c)Unavailability of good quality fungicides	000	000
4. Low yield of wheat		
a)Depleting ground water level	0000	0000
b)Brackish water	000	000

c) Heavy weed incidence like *Phalris minor*, broad leaf	0000	0000
5. Low yield of Mustard		
a) Heavy insect attack aphid	0000	0000
b) Due to frost in winter prohibits pod formation	0000	0000
c) Heavy termite attack	00	000
6. Heavy incidence of disease & pests in vegetables		
a) Heavy incidence of damping off disease at nursery stage	0000	0000
b) Incidence of red beetle, Downey mildew & fruit fly in bottle gourd	000	000
c) Problem of yellow mosaic virus	000	000
d) Fruit fly, flower & fruit drop in tomato	0000	0000
e) High cost of plant protection	0000	0000
7. Heavy post harvest losses		
a) Lack of awareness regarding correct preservation techniques for horticultural crops	0000	0000
b) Lack of training facility	000	000
c) Low rate of literacy among the farm women	00	00
8. Low use of nutrients in vegetable crops		
a) Lack of awareness on INM	00000	00000
b) Unavailability of good quality nutrients	0000	0000
9. Heavy incidence of disease & pests in Basmati Paddy		
a) Low adoptability of seed treatment	000	0000
b) Heavy incidence of blast & sheath blight disease	0000	0000
c) Heavy incidence of stem borer & leaf folder insect attack	0000	0000
Animal production system:		
9. Low productivity.		
a) Adverse ambient conditions	000	000
b) Poor Feeding	0000	0000
c) Cleanness	00	00
d) Disease	0000	0000
e) Milking Method	000	000
10. Endo-ecto parasite.		
a) Climate	000	000
b) Dirtiness	000	000
11. Imbalance use of nutrients.		
a) Lack of knowledge	0000	0000
b) Cost	00	00
c) Application & quality of nutrients	000	000
12. Attack of disease like HS, BQ metabolic disease like Bloat, Ketosis, milk fever.		
a) Climatic factor	00	00
b) No use of vaccination	0000	0000
c) Worm infestation	0000	0000
d) Lack of nutrients	000	000
e) Under or overfeeding	000	000
13. Irregular and delayed conception in dairy animals.		
a) No use of mineral mixture	0000	0000
b) Imbalance feeding	000	000
c) Pedigree record	0000	0000

6. Matrix ranking of problems: The matrix rankings of problems are scored on 5-point scale.

S. No.	Problem	Villages				
		Kair	**Shikarpur**	**Tigipur**	**Ghogha**	**Samaspur jagir**
1.	Salinity of soil and water.	+++++	++	++	++	+
2.	Low soil fertility & health	++++	+++	++	+++	++++

3.	Low yield of wheat	++++	++++	++++	+++	-
4.	Low yield of Mustard.	++++	++	++	++	-
5.	Poor adaptability of seed treatment.	+++++	++++	+++	++++	++++
6.	Non availability of quality seeds.	+++++	+++++	+++++	+++++	+++++
7.	Heavy weed infestation.	++++	+++++	++++	++++	+++++
8.	Disease & pest infestation in vegetables	++	+++++	+++++	+++	+++++
9.	Heavy disease incidence in Basmati rice crop.	-	++++	+++++	++++	-
10.	Low productivity in dairy animals	++++	++++	++++	++++	+++
11.	Imbalance use of nutrients.	++++	+++++	++++	+++++	+++
12.	Poor adaptability of INM.	++++	+++	++++	+++++	+++
13.	Post harvest losses in cereals and vegetables crops.	++++	+++++	+++	+++	++++
14.	Wide spread micro-nutrient deficiency among rural youth & rural women	++++	++	+++	+++	+++
15.	Endo-ecto parasites in animals.	+++	++++	++++	+++++	++++
16.	Drudgery in fodder harvesting.	+++++	++++	++++	++++	+++++
17.	Marketing.	++++	++++	++++	++++	++++

7. List of location specific thrust areas:

- Management of brackish water for use in irrigation.
- Integrated Disease and insect management in cereals and vegetable crops
- Weed management in cereals and vegetables
- Production of off season vegetable crops.
- Soil fertility management.
- INM in vegetables like bottlegourd, tomato & cauliflower.
- Feed management in dairy animals
- Use of women friendly tools to reduce drudgery
- Value addition in fruits and vegetables
- Techniques for minimization of storage loss

8. List of location specific technology needs for OFT and FLD.

- Improved variety for Mustard.
- Improved variety for Wheat.
- INM in cereal and vegetable crops
- IPM in cereal and vegetable crops
- Feed management in dairy animals.
- Location specific drudgery in harvesting & storage
- Post harvest management of horticultural crops

9. Matrix ranking of technology: The matrix rankings of technologies are scored on 5- point scale.

S. no.	Problem	Villages				
		Kair	**Shikarpur**	**Tigipur**	**Ghogha**	**Samaspur jagir**
1.	Salinity of soil and water	+++++	++	++	++	+
2.	Improved seed variety	++++	+++	+++	+++	+++
3.	Integrated nutrient management in vegetable.	-	++++	+++	++++	+++
4.	IPM in Paddy	-	++++	+++	+++	-
5.	Feed Management	++++	+++	++++	++++	+++
6.	Value addition	+++++	++++	++++	++++	+++++
7.	Weed Management	++++	+++	+++	+++	++
8.	Soil fertility	+++++	++++	+++	+++	++

9.	Seed treatment	+++++	++++	+++	++++	++++
10.	pH losses in cereals & vegetable crops	++++	++++	+++	+++	++++
11.	Disease Management	++++	+++	+++	+++	+++

10. List of location specific training needs:

- Management of brackish water and saline soil.
- Integrated pest management for the crops growing in the area.
- Production of quality seeds.
- Cultivation of off season vegetable crop.
- Market base crop cultivation.
- Round the year fodder availability for dairy animals.
- Drudgery reduction techniques
- Value addition of horticultural crops.
- Reproduction management in dairy animals.
- Technologies for increase milk yield.

Technology Inventory and Activity Chart - III

Technology Inventory and Activity Chart

Include

1. **Name of research institutes, research stations, regional centers of NARS (SAU and ICAR) and other public and private bodies having relevance to location specific technology needs:**

- IARI
- CCS HAU, Hisar
- NDRI
- NCIPM
- CIAE
- CIAH
- GBPUA & T
- IIVR
- DWR
- NHRDF
- MGICCC
- CSSRI

Sl. No	Technology	Crop/enterprise	Year of release or recommendation of technology	Source of technology	Reference/citation
1.	Calcium supplementation for milk production	Dairy	2005	NDRI, Karanal	Dairy farming: A technology bulletin modern dairy farming practices.
2.	Use of growth promoter in poultry for increasing	Poultry	1999	CARI, Bareilly	Poultry Nutrition Rajvir Singh

	weight gain				
3.	Breed evaluation of Vanraja	Poultry	1995	CPDO,Chandigarh	Poultry production B.Panda
4.	Deworming	Dairy animals	2000	Veterinary Collage, Udgir, Latur, (MS)	Handbook of veterinary clinicians A.U. Bhikane & S.B. kawitkar
5.	Mineral mixture supplementation for milk production	Dairy	2005	NDRI, Karanal	Dairy farming: A technology bulletin modern dairy farming practices.
6.	Response of wettable sulphar	Onion	1993 and 1999	NHRDF	**NHRDF** bulletin **Onion production in India** published in 1993 and reprinted in 1999
7.	Weed management	Onion	1993 and 1999	NHRDF	**NHRDF** bulletin **Onion production in India** published in 1993 and reprinted in 1999
8.	Varietal evaluation	Cauliflower, Carrot	2002,2009	IARI, Pusa	Div. of Vegetable, IARI,Pusa
9.	Preparation of bajra biscuit	Post harvest technology of Pearl millet	2003	CCSHAU, Hisar	NATP project on processing of pearl millet for value addition & development of health food. Dr. S. Sehgal, Dr. Asha Kawtra, Deptt of Food & Nut., CoHS
10	Drudgery & cost reduction by the use of wheel hoe	Cauliflower	2010	IARI, New Delhi	Uchh uttpadan hetu unnat krishi prodhikiyan, IARI, New Delhi
11	Use of evaporative cooled vegetable vending to reduce post harvest losses	Vegetables	2014	IARI, New Delhi	IARI Annual Report 2014-15, New Delhi
12	Improved variety WH 1105	Wheat	2012	HAU, Hisar	HAU, Hisar
13	Improved variety DBW 88	Wheat	2013	DWR	Directorate of wheat research, Karnal
14	Improved variety HD 3086	Wheat	2013	IARI	Div. of genetics & plant breeding, IARI, Pusa

15	Improved variety (HD-2967)	Wheat	2011	IARI	Div. of genetics & plant breeding, IARI, Pusa
16	Improved variety HD 2851	Wheat	2005	IARI	Div. of genetics & plant breeding, IARI, Pusa
17	Improved variety HD-2894	Wheat	2008	IARI	Div. of genetics & plant breeding, IARI, Pusa
18	Integrated disease management	Paddy	2011	IARI	Div. of Soil Sc. & Agril. Chem., IARI, Pusa
19	Improved variety CS 56	Mustard	2008	CSSRI	CSSRI, bulletin
20	Improved variety Pusa Vijay	Mustard	2008	IARI	Div. of genetics & plant breeding, IARI, Pusa
21	Improved variety Pusa 1121	Paddy	2003	IARI	Div. of genetics & plant breeding, IARI, Pusa
22	Improved variety Pusa 1509	Paddy	2013	IARI	Div. of genetics & plant breeding, IARI, Pusa
23	Integrated pest management	Cauliflower	2010	NCIPM New Delhi	Gobhi ki fashal ma samakit jeev parbhandan
24	Integrated pest management	Paddy	2014	NCIPM New Delhi	Integrated pest management of paddy
25	Integrated disease management	Mustard	2012	NCIPM New Delhi	-
26	Management of Bakanae disease (*Fusarium monilifome*) in Paddy	Paddy	2011-12	CCSU Hisar	Package & Practice
27	Management of Rust (*Puccinia striiformis*.) in wheat (*Triticum aestivum*).	Wheat	2010	IARI	Plant Pathology
28	Management of damping off disease in tomato nursery	Tomato	2014	NCIPM New Delhi	Tamatar ki fashal ma samakit jeev parbhandan

PS * an example for guidance only

1. Activity Chart

Crop/Animal/Enterprise	Problem	Cause	Solution	Activity	Reference of Technology
Buffaloes & Poultry	Low milk production of buffaloes & slow weight gain in poultry	• Imbalance feeding • No use of Calcium • No Use of growth promotar • Lack of Awareness of new technologies	• Balanced feeding • Supplementation of Calcium • Use of growth promoter in poultry.	• OFT on Supplementation ion broiler poultry • FLD on supplementation of calcium in cows. • FLD on breed evaluation of poultry • OFT on Deworming of buffaloes • Trainings on preparation of balanced ration, Feeding management in buffaloes, metabolic disease of dairy animals, ectoparasite control in dairy animals & vaccination in animals. • Kisan Gosthi • Method Demonstration. • Film Show • Popular articles	Sl. No. 2 of technology inventory Sl. No. 1 of technology Inventory Sl. No. 3 of technology inventory Sl. No. 4 of technology Inventory Sl. No. 5 of technology Inventory
Onion	Nutrient deficiency, Low yield of onion Weed infestation, Low yield of onion	• No use of wettable sulphur as foliar spray ▪ No judicious use of chemical s for weed control	1.Application of wettable sulphur as foliar spray 2.weed management	1.OFT on Response of wettable sulphur on increasing yield in Rabi onion (*Allium cepa*) 2. OFT on To assess the efficacy of oxyfluorfen 23.5%EC and Quizalofop Ethyl 5% EC weedicide as early post emergence	Sl. No.06 of Technology Inventory Sl. No.07 of Technology Inventory

				in rabi onion • . Extension littérature distribution	
Cauliflower, Carrot	Low yield Cauliflower, Carrot Heavy weed infestation	• Low productivity of old variety • Non availability of HYV.	Popularization of HYV of Cauliflower, Carrot Popularization of hand wheel hoe for weeding in cauliflower	• FLD on Varietal performance of Cauliflower, • FLD on use of wheel hoe in cauliflower Carrot • Training on Off season Vegetable production. • Extension literature distribution	Sr. No. 08 of technology Inventory Sr. No. 10 of technology Inventory Sr. No. 08 of technology Inventory
Bajra	Poor consumption of bajra	• Lack of knowledge regarding improved processing techniques • Lack of knowledge on nutritional value of local crops	1. Preparation of different products of bajra	2. OFT on acceptability of bajra biscuit in different ratio 3.Method demonstration on improved processing technique 4.Extension literature distribution	
Paddy	Prevailing low yield due to khara disease	• No judious of zinc sulphat	Use of zinc sulphat resist khara disease	Use of zinc sulphat to resist khara disease in paddy crop	Sr. No. 18 of technology Inventory

1. Details of each of the technology under Assessment, Refinement and demonstration

Include

a. Detailed account on varietal/breed characters for each of the variety/breed selected for FLD and OFT

Sr. No.	Crop	Character
1.	Wheat WH- 1105	• Timely sowing • High yielding • Resistance to yellow & brown rust
2.	Wheat DBW -88	• Disease resistance • Timely sowing • High yielding
3.	Wheat HD-3086	• Resistance leaf & strip rust • Timely sowing • High yielding

4.	Wheat HD-2967	• Timely sowing • Lodging resistant due to hard stem. • High yielding • Disease resistance
5.	Wheat HD-2851	• Recommended for NCR Delhi • Timely sowing • Resist to rust
6.	Wheat HD-2894	• Timely sowing • Resistance leaf rust
7.	Mustard (CS 56)	• Recommended for saline water & soil • High yielding
8.	Mustard (Pusa Vijay)	• Recommended for NCR Delhi • High yielding • Heat tolrent
9.	Paddy (Pusa 1121)	• Recommended for NCR Delhi • High yielding
10.	Paddy (Pusa 1509)	• Recommended for NCR Delhi • High yielding • Early maturity

b. Details of technologies that may include formulation, quantity, time, methods of application of nutrients, pesticides, fungicides etc. for technologies selected under FLD and OFT's

S. No.	Technology	Detail of Technology			
		Var./Chemical	Conc.	Dose	Method of application
Front Line Demonstration					
1.	Calcium supplementation	Osteovet	-	50ml /day for lactating animals	4-6 months for lactating animals
2.	Breed Evaluation of Back yard poultry	Vanraja	-	-	-
3.	HYV of mustard	CS 56	-	5kg/ha	Line sowing
4.	HYV of mustard	Pusa Vijay	-	5kg/ha	Line sowing
5.	HYV of paddy	Pusa 1121	-	12.5kg/ha	Line Transplanting
6.	HYV of Paddy	Pusa 1509	-	12.5kg/ha	Line Transplanting
7.	Improved variety of Wheat	WH- 1105	-	100kg/ha	Line sowing
8.	Improved variety of Wheat	DBW -88	-	100kg/ha	Line sowing
9.	Improved variety of Wheat	HD-3086	-	100kg/ha	Line sowing
10.	Improved variety of Wheat	HD-2967	-	100kg/ha	Line sowing
11.	Improved variety of	HD-2851	-	100kg/ha	Line sowing

	Wheat				
12.	Improved variety of Wheat	HD-2894	-	100kg/ha	Line sowing
13.	IPM in Cauliflower	Trichoderma *Viride* Neem pesticide Pheromone traps+Lure (DBM) SNPV	- 1500ppm - 100 LE	4g/kg seed +2.5kg/ha 2.5L/ha 10 traps/ha 250ml/ha	Seed treatment+ soil application with FYM Apply immediately after insect appearance Placed at insect appearance
On Farm Trial					
14.	Seed treatment in paddy	Carbandazim	50%WP	2g/kg seed	Mixed with seed before sowing
15.	Disease management of Bakane disease of paddy	Carbendazim Thiram	50% WP 75% WP	1g/kg seed 2.5g/kg seed	Treatment of seed before sowing
16.	Management of stem rot of mustard	Trichoderma *Harzinium* Carbendazim	- 50% WP	5g/kg seed Soil treatment – 9.4kg/ha 2g/kg seed	Treatment of seed & sowing before sowing Treatment of seed before sowing
17.	Management of rust of wheat	Diathene M-45 Propaconazole	45% WP 20%EC	2 g/liter water 1 ml/liter water	Foliar spray after disease appearance

c. Details of location/area specificity of recommended technology viz., for each of the variety/breed/technology selected for FLD and OFT

S.No.	Technology	Variety	Recommendation
1.	High yielding Wheat variety	HD-2967	Recommended for North West Plain Zone in timely sown and irrigated condition
2.	HYV of Mustard	CS 56	Recommended for saline soil & water
3.	HYV of Mustard	Pusa Vijay	Recommended heat tolrent & timely sown
4.	HYV of paddy	Pusa 1121	Recommended for NCR Delhi
5.	HYV of paddy	Pusa 1509	Recommended for NCR Delhi & early maturity

ANNEXURE-I

PROCEEDINGS OF THE 14TH SCIENTIFIC ADVISORY COMMITTEE MEETING OF KVK, UJWA, DELHI HELD ON 11TH JUNE, 2014 AT NEW DELHI

The 14th Scientific Advisory Committee (SAC) Meeting of Krishi Vigyan Kendra (KVK), Ujwa, Delhi was held on 11th June, 2014 in the Conference Hall of Bagwani Bhawan, NHRDF, Janakpuri, New Delhi under the chairmanship of Dr.Bijender Singh, Hon'ble President, National Horticultural Research and Development Foundation (NHRDF). The list of participants is given in Annexure-I.

At the outset, the Hon'ble President, NHRDF and Chairman, Scientific Advisory Committee, KVK, Ujwa welcomed all the Hon'ble Members of the Committee. The details of discussions held on different agenda items and decisions taken are as under:

Agenda Item No.1:
Confirmation of the proceedings of 13th SAC meeting of KVK, Ujwa:
Perused and confirmed.

Agenda Item No.2:

Follow up actions on the proceedings of 13th SAC meeting of KVK, Ujwa:
Perused and confirmed with the following suggestions made by the Hon'ble Members of the committee:

a) The Action Taken Report should have complete details of follow up of the issues describing concrete steps involving technical, administrative and financial issues and its outcome.
b) In future, the presentation should be made in Hindi language so that the Hon'ble Farmer Members of the Committee should also get themselves acquainted with the activities of the KVK, Ujwa.
c) Hon'ble Members desired that the issue of establishment of a Demonstration Unit on Fisheries should be re-examined based on the discussions held in the meeting and, its technicalities and economics should also be further discussed with the concerned scientists and action be taken accordingly.
d) It was decided that, in future, the KVK should give the details of the activities and programmes undertaken for promoting IPM in Yamuna River bed. The details of impact of the activities should also be given.
e) The KVK should take the help of Dept. of Agriculture, NCT, Delhi, if required, for sampling of the vegetables from the Yamuna River bed area and send to the H.Q. of the NHRDF for testing of pesticide residues.
f) The matter of non-availability of hybrid seed was discussed at length and it was decided that the concerned S.M.S. of the KVK should visit the websites of IIVR, IIHR, IARI and CCSHAU, see the vegetable hybrids developed by them and find out the recommended hybrids of different vegetables for NCT, Delhi.

contd.on…2

Accordingly, the Project Co-ordinator, KVK, Ujwa should approach to the concerned institutes for supply of a particular vegetable seed by mentioning the name of the hybrid. The Centers of the NHRDF should be requested for pursuance with the nearby institutes for supply of the seed. The cost of the hybrid seed, if any, will be paid by the KVK after getting invoice from the concerned institute / SAU.

g) The matter for nutritional aspects of the kitchen-gardening was also discussed thoroughly in the meeting and it was suggested that the KVK should survey the areas where they are going to take up the FLDs on nutritional aspects of kitchen-gardening, find out the deficiency of nutrition amongst the villagers and accordingly include the vegetables in its kitchen-gardening and arrange the FLDs as per the requirement of the area.

h) For improving the breeds of milch animals, the Hon'ble Members suggested to identify good bulls in the area and encourage its owners and cattle farmers to arrange servicing of cows/buffaloes with the bulls.

i) The KVK should conduct FLDs on seed production of improved varieties by following the Seed Village Concept.

j) It was also suggested that since the land cost of NCT is very high, it would not be advisable to take up the FLDs on general crops like cereals and oil seeds. Therefore, the FLDs should be taken on high value vegetable crops which will give more income to the farmers. The KVK should select such crops accordingly.

Agenda Item No.3:

Progress of the activities undertaken by the KVK during the year 2013-14:

Perused and confirmed with the following suggestions made by the Hon'ble Members of the committee:

a) Henceforth, the presentation should be made in Hindi language and it should be subject-wise ensuring that it is having the prospective of farmers.

b) The soil should be tested before arranging the OFT/FLD on nutritional aspects.

c) It was further suggested that the *Trichoderma viride* should be taken as a treatment for control of damping off in tomato instead of *Trichoderma harzinium*.

d) The Hon'ble Members were of the opinion that the wheat variety PBW-343, which is susceptible to rust disease should be discouraged amongst the farmers by the KVK.

e) The FLDs on terrace-gardening etc. should be conducted in Delhi and training etc. be given to the Kitchen-gardening Association / Kisan Clubs in different colonies to represent the KVK in the NCT.

contd.on…3

f) It was further suggested to include Karknath or Vanraja in FLDs on Backyard Poultry instead of Rodowhite.

g) Hon'ble Members were also of the opinion that the KVK should open one counter in Bagwani Bhawan of the NHRDF to sell different kinds of seeds to help the urban people of Delhi for growing better quality vegetables in their kitchen-gardens.

h) The KVK should compile the details of its activities and achievements made in the last 20 years and publish the same as an official document.

Agenda Item No.4:

Annual Action Plan of the KVK for the year 2014-15:
Perused and approved subject to implementation of the above suggestions.

Meeting ended with vote of thanks to the chair.

(R.K.YADAV)
MEMBER SECRETARY

(DR.BIJENDER SINGH)
PRESIDENT, NHRDF and
CHAIRMAN, SAC, KVK, UJWA

ANNEXURE-II

List of Participants of SAC Meeting

14th Scientific Advisory Committee Meeting of KVK, Ujwa
Date:11.06.2014
Venue: Conference Hall, Bagwani Bhawan, NHRDF,
Janakpuri, New Delhi

Sl.no.	Name	Designation	Signature
1	Dr Bijender Singh President, NHRDF	Chairman	
2	Dr.R.P Gupta Director, NHRDF	Member	
3	Dr. Prabhakumar, Zonal Project Director, Zonal Project Directorate (Zone-I)	Member	
4	Dr S.S.Siwach, Director Extension, Directorate of Extension Education, Gandhi Bhawan, CCSHAU, Hisar	Member	
5	Dr B.S Sreekant Director Extension Education, LLR University of Vety. And Animal Science, Hisar	Member	
6	Dr K Vijay Raghvan Jt Director Extension IARI, New Delhi	Member	
7	a DALBIR SINGH Office of the LD rector (Agril) Govt. of NCT, Delhi	Member	
8	Office of the Director (Animal Husbandry) Directorate of Animal Husbandry Room No.101, Old Secr., Delhi DR Sandeep Gahlot	Member	
9	Veena Sehgal Doordarshan Kendra Copernicus Marg, New Delhi	Member	
10	B. P. UPADHYAY Office of the Director (Fisheries) Govt. of NCT, Delhi Fishery Officer	Member	
11	Director Office of the LDirector (Hort) Govt. of NCT, Delhi	Member	
12	All India Radio Akashwani Bhawan, Sansad Marg, New Delhi	Member	

13	State Bank of India, ADB Najafgarh, New Delhi	Member	
14	Master Hemchand Yadav Vill- Kanganheri, New Delhi	Member	
15	Mrs Geeta Devi,Lady Farmer Vill-Ujwa, New Delhi	Member	
16	Mrs Shanti Devi, Vill- Badarpur, New Delhi	Member	
17	Sh Mahendra Singh Vill-Badarpur, New Delhi	Member	
18	NABARD, New Delhi	Invitee Member	
19	The Head, Bhumi Putra Kisan Club Tigipur, New Delhi	Invitee Member	
20	The Head, Yuva Kisan Club Sarangpur, New Delhi	Invitee Member	
21	The Head, New Dabar Kisan Club Ghumanhera, New Delhi	Invitee Member	
22	Sh Ramkumar, Dabar Kisan Club Vill- Galibpur, New Delhi	Invitee Member	
23	Mrs Ritu Singh, SMS (HS) KVK, Ujwa, New Delhi	Invitee Member	
24	Sh Rakesh Kumar, SMS(Hort) KVK, Ujwa, New Delhi	Invitee Member	
25	Dr H Pandey, SMS (AH) KVK, Ujwa, New Delhi	Invitee Member	
26	Dr Y.P Singh, SMS (Ext) KVK, Ujwa, New Delhi	Invitee Member	
27	Dr Devendra Rana, SMS(PP) KVK, Ujwa, New Delhi	Invitee Member	
28	Mr Jitendra Kumar, SMS(Agro) KVK, Ujwa, New Delhi	Invitee Member	
29	Sh Brijesh Yadav, PA(SS) KVK, Ujwa, New Delhi	Invitee Member	
30	Sh V.K Dixit, OSCA KVK, Ujwa New Delhi	Invitee Member	
31	Sh Mahipal Singh, (FM) KVK, Ujwa, New Delhi	Invitee Member	
32	Sh R.K Yadav, PC KVK, Ujwa New Delhi	Member Secretary	