PROFORMA FOR PREPARATION OF ANNUAL REPORT (April-2016-March-2017)

APR SUMMARY

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

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	53	1060	-	1060
Rural youths	04	40	-	40
Extension functionaries	16	160	-	160
Sponsored Training	04	200	-	200
Vocational Training	04	40	-	40
Total	81	1500	-	1500

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	06	2.4	-
Pulses	65	26	-
Cereals	95	38.0	-
Vegetables	-	-	-
Other crops	30	12	-
Hybrid crops	-	-	-
Total	196	78.4	-
Livestock & Fisheries	-	-	-
Other enterprises	-	-	-
Total			-
Grand Total	**196**	**78.4**	-

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	05	05	23
Livestock	-	-	-
Various enterprises	-	-	-
Total	05	05	23
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	**05**	**05**	**23**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	1044	36875
Other extension activities	79	-
Total	1123	36875

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Mark e-ting	Aware-ness	Other enterprise	Total
Moradabad	Text only							
	Voice only							
	Voice & Text both							
	Total Messages							
	Total farmers Benefitted							

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	635.91	-
Planting material (No.)		
Bio-Products (kg)		
Livestock Production (No.)		
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	305	-
Water		
Plant		
Total	**305**	**-**

8. HRD and Publications

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

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
Krishi Vigyan Kendra	Office	FAX	
Rustam Nagar (Bilari) Moardabad (U.P.) - 202411	05921-270044		moradabadkvk@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Director of Extension	0121-2888511	0121-2888511	
S.V.P.U. Agri. & Tech., Meerut (U.P.) - 250110			

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. R.K.Singh	-	9412809032	moradabadkvk@gmail.com

1.4. Year of sanction: 2004 (F.No.2-11/99-AE-11(PT) dated 13.12.2004

1.5. Staff Position (as on 5th May 2017)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Mobile No.	Age	Email id
1	Sr. Scientist & Head	Dr. R.K. Singh	Sr. Scientist & Head /Assoc. Director Ext.	Agricultural EXtension	37400-67400	51600 + 9000	14-10-2004	Permanent	9412809032	53	moradabadkvk@gmail.com
2	Subject Matter Specialist	Dr. P.L. Rawat	SMS/ Assoc. Dir.	Horticulture	37400-67400	45440+ 9000	25.01. 1996	Permanent	9411088138	60	
3	Subject Matter Specialist	Sh. Hasan Tanveer	SMS/ Asst. Prof.	Plant breeding	15600-39100	20590 + 6000	23-06-2008	Permanent	9369156642 On study leave	46	htshahi @yahoo.com
4	Subject Matter Specialist	Dr. Arvind kumar	SMS/ Asst. Prof.	Plant protection	15600-39100	23860 + 6000	23-06-2008	Permanent	9412170753	45	
5	Subject Matter Specialist	Dr. Mohan Singh	SMS/ Asst. Prof.	Soil Science	15600-39100	23080 + 6000	25-06-2008	Permanent	9457802593	44	drmsinghkvk@gmail.com
6	Subject Matter Specialist	Dr. A.K. Misra	SMS/ Asst. Prof.	Agronomy	15600-39100	23080 + 6000	09-07-2008	Permanent	9368566251	45	dr.misraak @rediffmail.com

7	Subject Matter Specialist	-	-	Home science	-	-	-	-			
8	Prog. Assistant	Sh. Ravinder Pal Singh	Prog. Assistant	Agri. Extension	9300-34800	44960	26-12-2008	Permanent	9411220240	46	rpskvkbsr@gmail.com
9	Prog. Assistant	Sri. Nagendra Pratap Singh	Computer Programmer/ Programme Assistant	PGDCA	9300-34800	46200	01-09-2007	Permanent	9412060554	42	nagendrapratap1973@gmail.com
10	Farm Manager	Dr. Hambir Singh	Farm Manager	Plant Breed	9300-34800	46200	18-08-2007	Permanent	9759173168	47	
11	Accountant / Superintendent	Sri. Sanjay Kumar Sharma	OS/ Accountant	Accounts	9300-34800	58600	18-09-2000	Permanent	9412650468	44	sksharmakvk@gmail.com
12	Stenographer/ computer operator	Sri. Ajay Tomar	Stenographer/ computer operator		5200-20200	34300	30-07-2007	Permanent	8171960800	33	
13	Driver	Sh. Virendra Kumar Mishra	Driver	-	5200-20200	30500	05.12.2003	Permanent	9984580773	43	
14	Driver		Vacant	Vacant					Vacant		
15	Supporting staff	Sri. Ram Kishore	Vill. Attendant	-	2550-3290	31400	09-01-1996	Permanent	9837137652	57	
16	Supporting staff	Sri Sarvesh Kumar	Attendant	-	2550-3290	23500	27-02-2008	Permanent	9548115024	33	

1.6. Total land with KVK (in ha) : 17.5 ha

S. No.	Item	Area (ha)
1	Under Buildings, ,Road, Channels and boundary etc.	3.0984
2.	Under Demonstration Units	0.0016
3.	Under Crops	13.0
4.	Orchard/Agro-forestry	0.9
5.	Others (specify)	0.5

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.) Lac	Starting date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR		510				Completed
2.	Farmers Hostel	ICAR		300				-do-
3.	Staff Quarters (6)	ICAR		431				-do-
4.	Demonstration Units (2)	ICAR		160				-do-
5	Fencing	ICAR		2000 R/M				-do-
6	Rain Water harvesting system	-	-	-				-
7	Threshing floor	ICAR		300				-do-
8	Farm godown	ICAR		60				-do-
9	Irrigation Channel	ICAR		1000 M				-do-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.) Lac	Total kms. Run	Present status
Tractor	2005	3.45		Good condition
Bolero Jeep	2007	4.59		Good condition
Motor cycle	2008	0.52		Good condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
L.C.D. Projector	2007	57000.00	Good condition
U.P.S.	2007	TRF from H.Q.	Good condition
Solar (Lalten)	2007	4040.00	Good condition
Electric Padestral Fan	2005	2410.00	Good condition
Padestral Fan	2005	1725.00	Good condition
11 cultivator	2005	12265.00	Good condition
14 Tawa Harrow	2005	24540.00	Good condition
Leveller	2005	6870.00	Good condition
Nepsake Spray (Plastic)	2005	1428.00	Good condition
Foot Sprayer	2005	1362.00	Good condition
Disk Bund Farmer	2006	8250.00	Good condition
Seed Drill	2006	23415.00	Good condition
Hand Rotary Fan	2006	1161.00	Good condition
Trailer for Tractor	2006	64524.00	Good condition
Hand Vinoi Fan	2006	1450.00	Good condition
S.D. Memory cord of LCD with Recorder	2007	4000.00	Good condition
Solar domestic ligh (Model IV)	2008	25775	Good condition

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

वैज्ञानिक सलाहकार समिति द्वारा दिये गये सुझावों का विवरण –

Sl.No.	Date	Name and Designation of participants	Silent Recommendations	Action taken
1	09 January 2017	डा0 रघुवीर सिंह निदेशक प्रसार	1. वैज्ञानिक सलाहाकार समिति की बैठक में सुझाव देने वाले मा0 अध्यक्ष एवं सदस्य का नाम भी संस्तुति के साथ कार्यवृत में लिखा जाये ।	डा0 अरविन्द कुमार (पादप सुरक्षा विज्ञान)
			2. अन्य विभागों की गोष्ठी/कार्यक्रम में बिना अध्यक्ष की स्वीकृति के कोई भी वैज्ञानिक भाग न लें ।	समस्त वैज्ञानिक
			3. सस्य विज्ञान में फसल अवशेष प्रबन्धन पर प्रशिक्षण कार्यक्रम आयोजित किया जाये ।	डा0 ए0के0 मिश्र (सस्य विज्ञान)
			4. सस्य विज्ञान में गन्ने + लहसुन सहफसली खेती पर ओ0एफ0टी0 न आयोजित की जाये।	डा0 ए0के0 मिश्र (सस्य विज्ञान)
			5. सस्य विज्ञान में धान में Bispyri bac sodium weedicide के प्रयोग पर प्रथम पंक्ति प्रदर्शन न आयोजित किया जाये । इस विषय पर प्रशिक्षण आयोजित किया जाये ।	डा0 ए0के0 मिश्र (सस्य विज्ञान)

			6. प्रसार कार्यकर्ताओ के प्रशिक्षणों की सं0 बढायी जाये ।प्रत्येक विषय पर कम से कम 08 प्रशिक्षण वर्ष में आयोजित किये जाये ।	समस्त वैज्ञानिक
			7. ग्रामीण युवक/ युवतियों के प्रशिक्षण में वर्मी कम्पोस्ट विषय पर प्रशिक्षण केवल मृदा विज्ञान विषय के अन्तर्गत ही किया जाये । ।	डा0 मोहन सिंह (मृदा विज्ञान) एवं डा0 ए0के0 मिश्र (सस्य वैज्ञानिक)
			8. पादप प्रजनन वैज्ञानिक के केन्द्र पर वापस आने तक दलहन व धान बीज उत्पादन पर सस्य वैज्ञानिक द्वारा ग्रामीण युवक/ युवतियों हेतु प्रशिक्षण आयोजित किये जाये ।	डा0 ए0के0 मिश्र (सस्य विज्ञान)
			9. मृदा विज्ञान विषय की ओ0एफ0टी0 में टी3 मृदा परीक्षण के आधार पर रखा जाये ।	डा0 मोहन सिंह (मृदा विज्ञान)
			10. जिंक सल्फेट के स्थान पर अन्य कोई सूक्ष्म पोषक तत्व विषय पर प्रथम पंक्ति प्रदर्शन आयोजित करें ।	डा0 मोहन सिंह (मृदा विज्ञान)
			11. पादप सुरक्षा विषय में उर्द में मौजेक नियंत्रण के स्थान पर धान में प्रथम पंक्ति प्रदर्शन आयोजित करें ।	डा0 अरविन्द कुमार (पादप सुरक्षा)
		जिला कृषि अधिकारी, मुरादाबाद	1. फसल बीमा पर प्रसार कार्यकर्ताओं हेतु केन्द्र द्वारा एक प्रशिक्षण आयोजित किया जाये ।	श्री आर0पी0 सिंह कार्यक्रम सहायक(कृषि प्रसार)
		प्रगतिशील कृषक एवं सदस्य श्री मुकुल पाण्डे	2. केन्द्र पर एक उघान वैज्ञानिक होना चाहिये ।	डा0 आर0 के0 सिंह अध्यक्ष

2.0 DETAILS OF DISTRICT (2016-17)

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

S.N.	Farming system/enterprise
1.	**Major crops –** Paddy, Wheat, Mustard, Sugarcane, Mentha, Lentil, Potato.
2.	**Crop rotation–** Rice-Sugarcane, Rice- Wheat, Urd-Mustard-Mentha, Jowar-Mustard-Mentha
3.	Agriculture + Hort. + Livestock
4.	Agri. + Livestock
5.	Landless + Livestock

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

S. No.	AES	Characteristics of A.E.S.	Major commodities	Farming system	Block
1	I- Central western plain zone of the district	-Loam and clay loam with high fertility - medium rainfall	Rice, wheat, mentha, sugarcane, chilli, cauliflower, cabbage, mango, guava, buffalo, cows	Paddy, wheat, sugarcane+ Poplar+ A.H. (Cow, buffalo)	Thakurdwara, Dilari, Moradabad, Bhagatpur tanda and Chhajlait
2	II. Central western Plain zone/ Central east southern region of the district	-Sandy loam to loam soil of medium fertility - medium rainfall	Rice, wheat, mentha, sugarcane, mustard as well as vegetables (pea, cucumber, chilli, tomato, potato) and mango fruit, buffalo, cows	Paddy, wheat, potato, sugarcane, mentha, mustard based systems + horticulture + A.H.	Billari, Baniyakhera, Bahjoi, Panwasa and Sambhal
3	III Central western plain zone Central region of the district	-Sandy loam to loam and clay soil of medium fertility - medium rainfall	Rice, wheat, mentha, sugarcane, potato, guava, mango, poplar etc.	Paddy, wheat, sugarcane, mentha based systems poplar + A.H.+ Hort.	Munda pandey, Kundarki and Asmoli

2.3 Soil type/S

S.No.	Soil type	Area (ha)
1	Clay loam	81930
2	Sandy soil	25537
3	Sandy loam	84518
4	Loam	126433
	Total	317919

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

S.No.	Crop	Area (ha)	Production (MT)	Productivity (q /ha)
1	Wheat	121876	19634	16.11
2	Lentil	732	35.50	4.85
3	Mustard /Toriya	2380	277.98	11.68
4	Paddy (Rice)	96305	22554.63	23.42
5	Potato	1138	311140	273.41
6	Urd	3740	274.89	7.35
7	Sugarcane	44719	288598	645.36

2.5 Weather data (rainfall in mm.) Dist. Moradabad

S. No.	Month	2016-17
1	April	-
2	May	35.11
3	June	117.0
4	July	278.24
5	Aug	156.33
6	Sept.	67.11
7	Oct.	5.25
8	Nov.	-
9	Dec.	-
10	Jan	23.05
11	Feb	-
12	March	9.65
	Total rainfall	676.55
	Avg. rainfall	84.57

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

Category	Population	Production	Productivity
Cattle			
Crossbred	**11824**	**Data not available**	**Data not available**
Indigenous	**58421**		
Buffalo	**240704**		
Sheep			
Crossbred	**220**		
Indigenous	**40082**		
Goats	**208768**		
Pigs	**11195**		
Crossbred	**3165**		
Indigenous	**27159**		
Rabbits	**-**		
Poultry	**116205**		
Hens	-		
Desi	**-**		
Improved	**-**		
Ducks	**-**		
Turkey and others	**-**		
Fish	**172**	**3019**	**78.07**

2.7 Details of operation area/villages (2016-17)

S. No.	Taluk/Village	Name of block	Major crops & enterprises	Major problem identified	Identified thrust area
1	Fattepur Natha	Bilari	Paddy, Wheat, Sugarcane Mentha, Mustard, Poplar, Dairy	Low Productivity of paddy, wheat, mustard, urd etc. The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely.	Diversification in agriculture Lack of high yielding varieties. Less availability of plant protection measures.
2	Bhurmaresi	Bilari	Paddy, Wheat, Sugarcane Mentha, Mustard, Poplar, Dairy	Low Productivity of paddy, wheat, mustard, urd etc. The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely. Low yield of paddy, wheat, mentha & mustard	Diversification in agriculture Lack of high yielding varieties. Less availability of plant protection measures. Heavy infestation of weeds.
3	Khanpur	Bilari	Paddy, Wheat, Sugarcane Mentha, Mustard, Dairy, Chilli, bottle guard, colocacia	Poor milk production and infertility in animals. Lack of knowledge of quality planting material and	Diversification in Agriculture. Use of improved variety and IPM, ICM.

				production technology in horticultural crops. Low yield of paddy, wheat, mentha & mustard	Heavy infestation of weeds.
4	Ram Nagar Gangpur	Bilari	Paddy, Wheat, Sugarcane Mentha, Mustard, Poplar, Dairy	Use of local varieties of different crops by the farmers. Pest problems Low yield of paddy, wheat, mentha & mustard	Diversification in Agriculture. Use of improved variety and IPM, ICM. Heavy infestation of weeds.
5	Sihari Ladda	Bilari	Paddy, Wheat, Sugarcane Mentha, Mustard, Dairy, Poplar,Chilli, Onion, Gartic, Cucurbits.	Lack of knowledge of improved varietied of different crops. - Pest problems - Lack of knowledge of inter cropping - Crop management & nutrient management. - Disease & insect control of cereals and vegerable crops. - Poor milk production and infertility in animals	- Diversification in agriculture. - Use of improved varieties. - Inter cropping technique. - Crop management. - Weed control - Unawareness of diseases and insect control.

2.8 Priority thrust areas

Crop/Enterprises	Thrust area
Sugarcane	HYV,INM,IPM & Weed management
Rice	HYV,INM,IPM ,Weed management & IDM
Wheat	HYV, INM, Weed management, IPM, IDM
Mustard	HYV, INM, IPM, IDM
Mentha	HYV, INM, IPM, IDM
Pulses	HYV,INM,IPM
Maize	HYV, INM, IPM
Animal Husbandry	Feed & fodder management, Disease management, Dairy management, Poultry production
Cucurbits	HYV, INM, IPM
Cole crop	HYV, INM, IPM
Spice	Management technology

3.0 TECHNICAL ACHIEVEMENTS

3.A. Details of targeted mandatory activities by KVK during 2016-17

OFT (Technology assessment & refinement)				FLD (Oilseeds,Pulses,Cotton,other crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha.		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
06	05	26	23	68.4	78.4	193	196

	Training (including sponsored, vocational trainings)				Extension Activities			
	3				4			
	Number of Courses		Number of Participants		Number of activities		Number of participants	
Clientele	T	A	T	A	T	A	T	A
Farmers	74	53	1480	1060	1463	1044	10000	36875
Rural youth	08	04	80	40				
Ext. Functionaries	18	16	180	160				
Sponsered traing	-	04		200				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	635.91	Supply to NSC, Meerut	20000	-	-

I.A TECHNOLOGY ASSESSMENT

A. Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of Farmers
Integrated Nutrient Management	Wheat Paddy	Effect on nutrient management in wheat Nutrients management on the bases of soil test in paddy.	01 01	05 05
Integrated Pest Management	Paddy	Management of Stem borer in paddy	01	05
Integrated Crop Management	Sugarcane with intercrope	Assisment of suitable combination of intercrop with spring sugarcane	01	03
Integrated Disease Management	Wheat	Management of yellow rust in wheat	01	05
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Post Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				
Total			**05**	**23**

B. Summary of technologies assessed under **livestock** by KVKs

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

C. Summary of technologies assessed under various enterprises by KVKs

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

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

I.B. TECHNOLOGY REFINEMENT

A. Summary of technologies refined under various crops by KVKs

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

B. Summary of technologies refined under various livestock by KVKs

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

C. Summary of technologies refined under various enterprises by KVKs

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

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

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

OFT -1

INTEGRATED CROP MANAGEMENT IN SUGARCANE
(Rabi - 2015-16)

Problem definition Low yield of sugarcane sole crop as compare to intercrop.
Technology assessed or refined Assesment of suitable combination of inter crop with autumn sugarcane.
No. of Farmers 03

KVK Moradabad has been conducted on-farm trials on suitable inter crop(Sugarcane+mustard, S.cane + Garlic) combination with autumn s.cane.

Generally farmers are take a sole crop s.cane, resulting low income of sole crop as compaired to inertcrop. The problem assessed on the basis of suitable & profitable combination selected.

Table : Performance of sugarcane(*CV.CO 88230*) in relation to integrated crop management

Technology Option	No.of trials	Yield of intercrop (q/ha.)	Cane yield (q/ha.)	Yield of Intercrop + Cane (q/ha.)	Yield increase (%)
Farmers practices (Single crop)	3	-	715.50	715.50	-
S.cane + Mustard		17.50	711.50	729.0	1.89
S.cane + Garlic		102.5	725.0	827.50	15.65

Gross return (Rs./ha.)			Net Return (Rs./ha)			B:C Ratio
S.cane	Intercrop	Cane + intercrop	S.cane	Intercrop	S.cane + intercrop	
207495	-	207495	97845	-	97845	1:1.89
206335	61250	267585	93685	39892	133577	1:2.00
244035	358750	602785	128285	253100	381385	1:2.72

Final The result indicated that intercropping of garlic & mustard are sowing in two row spacing of S.cane gave, higher net return Rs. 3.81 lac/ha. in garlic

recommendation	followed by mustard Rs. 1.33 lakh/ ha. over to control(Sole crop), 97.80 lakh/ha. with B:C ratio 1:2.72, 1:2.00 & 1:1.89, respectively. Sugarcane + garlic is highly labour intensive cropping system.
Farmers reaction	Farmers have positive response about garlic intercropping with autumn sugarcane is more profitable as comparsion to S.cane + mustard. Farmers are covinced minimum infestation of early shoot borer & Top borer in S.cane+garlic plots as compare to S.cane + mustard and sole crop of S.cane.
Date of sowing/planting harvesting	10 Nov. 2015 & Intercrop harvested in 12 March (Mustard) &, 6 April 2016 (Garlic) & S.Cane - 22 Nov 2016.

OFT -2

INTEGRATED CROP MANAGEMENT IN SUGARCANE
(Zaid - 2017)

Problem definition Low yield of sugarcane sole crop as compare to intercrop.

Technology assessed or refined Assesment of suitable combination of inter crop with Spring sugarcane.

No. of Farmers 03

KVK Moradabad has been conducted on-farm trials on suitable inter crop(Sugarcane, S.cane + Urdbean) combination with Spring s.cane.

Generally farmers are take a sole crop s.cane, resulting low income of sole crop as compaire to inertcrop. The problem assessed on the basis of suitable & profitable combination selected.

Table : Performance of sugarcane(*CO - 0238*) in relation to integrated crop management

Technology Option	No.of trials	Yield of intercrop (q/ha.)	Cane yield (q/ha.)	Yield of Intercrop + Cane (q/ha.)	Yield increase (%)
Farmers practices (Sole crop)	3	Result	awaited		
S.cane + Urdbean					

Date of sowing/planting harvesting 02-05 March 2017 S.Cane & 12-15 March (Urd) .

OFT - 3

INTEGRATED NUTRIENT MANAGEMENT
(Kharif 2016)

Problem definition Low yield of paddy due to imbalance use of fertilizers.

Technology assessed or refined To test the different dose of fertilizers against soil test bases.

No. of Farmers 05

KVK, Moradabad conducted on-farm trials on different doses of fertilizers on soil test bases in high yielding varieties of paddy.

Table : Performance of wheat.

Technology Option	No.of trials	Yield (q/ha.)	Increase in yield (%)	Net Return (Rs./ha)	B:C Ratio
T_1 – Farmers practice 120:40:0:0 N:P:K & Zn Kg/ha. (PB - 1509)	05				
Recomendation dose T_2 – 150:60:40:30 N:P:K & Zn Kg/ha.		43.22	8.48%	52374	1:2.22
T_3 – Soil test bases 158:60:52:30 N:P:K & Zn Kg/ha.		46.94	17.82	59718	1:2.37

Recommendation The data given in table shows that T_3 Use of ***soil test bases)*** in paddy crop. T_3 is found best for proper nutrient. This treatment is able to increase the crop production in comparision to T_1.

Farmers reactions Application of soil test bases fertilizers in paddy crop increases the yield of paddy.

Date of Sowing & harvesting 21-24 July. 2016 and 05-12 Nov. 2016

OFT - 4

INTEGRATED NUTRIENT MANAGEMENT (Rabi 2016-17)

Problem definition Assesment of suitable dose of fertilizer in wheat crop.

Technology assessed or refined Evaluation of Zinc sulphate fertilizer on soil test bases.

No. of Farmers 05

KVK, Moradabad conducted on-farm trials on high yielding varieties of wheat under late sown condition. on soil test bases.

Table : Performance of wheat.

Technology Option	No.of trials	Yield (q/ha.)	Increase in yield (%)	Net Return (Rs./ha)	B:C Ratio
T_1 – Farmers practice 150:60:40:0:0 N:P:K & Zn Kg/ha. (CVW - 38)	05				
T_2 – T_1 + ZnSO4 25 kg/ha.		42.75	14%	52518	1:2.26

Recommendation The data given in table shows that T_2 (Use of ***ZnSO4 25 kg /ha.)*** in wheat crop. T_2 is found best for proper nutrient. This treatment is able to increase the crop production in comparision to T_1.

Farmers reactions Application of Zinc sulphate @ 25 Kg/ha. is very effective to enhencing in wheat yield.

Date of Sowing & harvesting 22-26 Dec. 2016 and 10-12 April. 2017

OFT - 5

PEST AND DISEASE MANAGEMENT
(Kharif – 2016)

Problem definition Low yield of paddy due to infestation of ***Stem borer***.

Technology assessed or refined To test the efficacy of different insectisides against stemborer in paddy crop.

No. of Farmers 05

KVK Moradabad conducted on-farm trial to Control of Stem borer in paddy by the use of Cartap hydrochloride 4% G @ 20 Kg./ha. and Chlorantraniliprole 0.4G @ 10Kg/ha. gave 9.34% and 13.75% higher yield respectively over farmers practice (Carbofuran 3 CG @ 20 Kg/ha.). The insect infestation showed 1.5 times and 2.0 times more in farmers practice in comparision to Cartap hydrochloride 4%G treated plots and Chlorantraniliprole 0.4G treated plots.

Table: Effect of Cartap hydrochloride 4% G and Chlorantraniliprole 0.4G in control of Stem borer in paddy

Technology Option	No.of trials	Incidence of Stem borer (%)	Yield (q/ha)	% Increase in yield over farmer's practice
T_1 - Use of ***Carbofuran*** 3CG @ 20 Kg/ha. (Farmers practice)	05	12.0	40.0	-
T_2 - Use of ***Cartap hydrochloride 4%G*** in soil @ 20 Kg./ha..		8.0	43.75	9.37
T_3 - Use of ***Chlorantraniliprole 0.4G*** @ 10Kg/ha. in soil		6.0	45.50	13.75

Recommendation The data given in table shows that T_3 (Use of ***Chlorantraniliprole 0.4G*** @ **10Kg/ha.** in the soil in presence of approximate 3 inches of standing water after 35-40 days of transplanting, gave maxi. yield 45.50qt./hac. This treatment is able to minimize & control the stem borer infestation in comparision to T_1 and T_2.

Farmers reactions Application of ***Chlorantraniliprole 0.4G @ 10Kg/ha.*** in soil in the paddy after 35-40 days of transplanting is very effective in controling the Stem borer infestation.

Date of transplanting & harvesting 13-18 July 2016 and 02-04 Nov. 2016

OFT - 6

PEST AND DISEASE MANAGEMENT
(Rabi – 2016-17)

Problem definition Low yield of wheat due to incidence of ***Yellow rust***.

Technology assessed or refined To test the efficacy of different fungicides against yellow rust in wheat crop..

No. of Farmers 05

KVK Moradabad conducted on-farm trial to Control of yellow rust disease in wheat by the use of Mencozeb 75 WP @ 2.0 Kg/ha (Two spray) and Propiconazole 25 EC @ 500ml/ha. (Two spray) gave 10.40% and 14.8% higher yield respectively over farmers practice (No use of chemical.). The disease infestation showed 1.43 times and 1.91 times more in farmers practice in comparision to Mencozeb 75 WP and Propiconazole 25 EC treated plots respectively.

Table: Effect of Mencozeb 75 WP and Propiconazole 25 EC in control of yellow rust in wheat

Technology Option	No.of trials	Incidence of disease yellow rust (%)	Yield (q/ha)	% Increase in yield over farmer's practice
T_1 - Use of ***No chemical*** (Farmers practice)	05	11.5%	40.50	-
T_2 - Use of Mencozeb 75 WP @ 2.0 Kg/ha (Two spray)		8.0%	44.75	10.4
T_3 - Use of Propiconazole 25 EC @ 500ml/ha (Two spray)		6.0%	46.50	14.8

Recommendation The data given in table shows that in treatment T_3 (Use of ***Propiconazole*** 25 EC @ 500ml/ha (Two spray). I spray in first week of Feb and II after 12-15 days of I spray gave maxi. yield 46.50 q/hac. This treatment is able to control and minimize the incidence of yellow rust disease in wheat in comparision to other (T_1 and T_2).

Farmers reactions The application of ***Propiconazole*** 25 EC @ 500ml/ha (Two spray) is very effective to control yellow rust in wheat.

Date of transplanting & harvesting 28 Nov.-01 Dec 2016 and 12-15 April 2017.

II. Front Line Demonstration on other than oil seeds & pulses

A. Follow-up results of FLDs implemented during previous years

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

S. N.	Crop/ Enterprise	Thematic area	Technology Demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha.
1	Paddy	Weed management	Weed control through Bispyribac sodium 10 EC @ 200 ml/ha	Through training prog., Gosthi , Field day, FLD & Electronic & Print media	15	450	250
2	Paddy	IDM	Control of blast disease through Hexaconazole 4% + Zineb 68% @ 1Kg/ha. (Two spray)	Through training prog., Gosthi , Field day, FLD & Electronic & Print media	18	225	101
3	Wheat	INM	Application of zinc sulphate @ 25 kg/ha. as basal dose in rice-wheat cropping system	Through training prog., Gosthi , Field day, FLD & Electronic & Print media	45	550	210
4	Paddy	IPM	Two spray of Imidiacloprid 17.8SL @ 150 ml/hac. at tillering stage & second dough stage to control BPH	Through training prog., Gosthi , Field day, FLD & Electronic & Print media	20	530	200

B. Front Line Demonstration on oil seeds & pulses under NFSM

FLD - 1

Urdbean (Kharif – 2016)

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Urdbean	- ICM	- ICM through improved seed, weed & insect management	Kharif 2016	10.0	10.0	02	23	25	N.A.

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Urdbean	Kharif 2016	Irrigated	Loam	Medium	Low	Medium	Mustard/Wheat	02-05 Aug, 2016	28 -31 Oct - 2016	506.93	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Urd	- ICM	ICM through improved seed, weed & insect management	PU- 31	25	10.0	9.50	6.75	8.20	5.80	29.26	18333	57386	39053	1:3.13	16304	40586	24282	1:2.48

a. Technical feedback

1	Uniform maturity & bold grain.
2	Increase the grain yield due to improved & certified variety of PU- 31.
3	Slightly incidence of yellow mosaic due to uncertain climate.
4	Low incidence of pod borer due to timely application of insecticide (Imidaclorpid 17.8SL).
5	Very low incidence of weeds due to timely spraying of Imazathyper 10 EC @ 250 ml/demo.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Farmers have give positive response about variety PU -31 is higher grain yield as compare to local variety Alankar.
2	Uniform& short day maturity (85-95 days).
3	Low incidence of yellow Mosaic.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1	Field Day	01	22	
2.	Farmers Training	01	20	
3	Media coverage	02	mass	

FLD - 2
Mustard

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Mustard	ICM	- Replacment of local variety of mustard by RGN -73	Rabi 2016-17	2.4	2.4	-	06	06	N.A.

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Mustard	Rabi 2016-17	Irrigated	Loam	Medium	Low	Medium	Paddy/Pulses	2-29 Oct-, 2016	15-17 March 2017	37.95	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q/ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Mustard	- ICM	- Replacment of local variety of mustard by RGN -73	RGN -73	06	2.4	21.5	20.5	21.16	17.42	21.47	21727	80433	58707	1:3.70	21628	66215	44588	1:3.06

a. Technical feedback

1	RGN - 73 is a bold seeded & high yielding variety with good oil content.
2	Grain yield has been increased due to timely sowing & no incidence of Aphids.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Farmers are agree to mustard variety RGN - 73 is good & high yielding variety.
2	Farmers are conveniced to no incidence of aphids due to timely sowing.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1	Field Day	01	22	
2.	Farmers Training	01	20	
3	Media coverage	01	mass	

FLD - 3
Lentil (Rabi 2016-17)

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Lentil	- ICM	- ICM through improved seed	Rabi 2016-17	16.0	16.0	11	29	40	N.A.

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Lentil	Rabi 2016-17	Irrigated	Loam	Medium	Low	Medium	Paddy/Bajra	12-17 Nov.2016	04-08 April 2017	32.70	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Lentil	- ICM	ICM through improved seed,	PL - 8	40	16.0	12.50	8.0	10.03	8.16	18.64	18553	60061	41495	1:3.24	16025	46566	30127	1:2.90

a. Technical feedback

1	Uniform maturity & bold grain.
2	Increase the grain yield due to improved & HYV of PL -8.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Farmers have give positive response about variety PL – 8 variety of lentil, is higher grain yield as compare to local traditional variety.
2	No incidence of Blight.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1	Field Day	01	25	
2.	Farmers Training	01	20	
3	Media coverage	02	mass	

C. Front Line Demonstration on other than oil seeds & pulses

FLD - 1

Crop production : Paddy

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Paddy	- Weed management	- Weed control through Bispyribac sodium 10 EC @ 200 ml/ha.	Kharif 2016	6.0	6.0	02	13	15	N.A.

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Kharif 2016	Irrigated	Loam	Medium	Low	Medium	Mentha/Wheat	05-10 July 2016	30 Oct – 05 Nov, 2016	623.93	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Paddy	- Weed management	Weed control through Bispyribac sodium 10 EC @ 200 ml/ha.	PHB-71	15	6.0	76.75	69.50	72.0	58.0	19.45	45350	108000	62650	1:3.28	43700	87000	43300	1:2.0

a. Technical feedback

1	Bispyribac sodium 10 EC is effectively weed control (88.5%) .
2	The grain yield has been increased up to 19.45% due to timely weed control.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Farmers have positive response to chemical weed control Bispyribac sodium 10 EC.is more effective & economic as compare to pretilachlaore.
2	The grain yield has increased up to 19.45% due to timely weed management.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1	Field Day	01	25	
2.	Farmers Training	01	20	
3	Media coverage	02	mass	

FLD - 2
Crop production : Wheat

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Wheat	Weed management	Use of Sulfo-Sulfuron 75WP @ 33 gm/ha.	Rabi 2016-17	6.0	6.0	03	12	15	N.A.

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Wheat	Rabi 2016-17	Irrigated	Loam	Medium	Low	Medium	Paddy/Urd	27-31 Nov 2016 & 01 Dec. 2016	11-14 April 2017	-	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Wheat	WM	Use of Sulfo-Sulfuron 75WP @ 33 gm/ha. .	HD-2967	15	6.0	49.54	46.6	48.12	41.10	17.09	43910	78206	34296	1:1.78	43260	66815	23555	1:1.54

Technical feedback

1	Sulfo Sulfuron 75 WP is more effictive to weed control over to control plot up to 90.57%.
2	Due to tmely management of weed, the grain yield has been increased up to 17.09% over to control.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Farmers are convinced the grain yield has been increased due to timely weed management.
2	Minimized the weed infestation.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1	Field Day	01	23	
2.	Farmers Training	01	20	
3	Media coverage	02	mass	

FLD No. : 3
Soil Science : Paddy

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Paddy	INM	Micro-nutrient management through ZnSo4 (25 Kg/ha.) +) FeSo4 (15 kg/ha) as basal dose	Kharif 2016	4.0	4.0	01	09	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Kharif 2016	Irrigated	Sandy loam and loam	Medium	Medium	Medium	Wheat	21-22 July 2016	10-15 Nov. 2016	-	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Paddy	INM.	Micro-nutrient management through ZnSo4 (25 Kg/ha.) +) FeSo4 (15 kg/ha) as basal dose	PB - 1509	10	4.0	48.70	48.2	48.75	43.12	11.16	44150	107250	63100	1:2.43	42400	58864	52464	1:2.23

a. Technical feedback

S. No	Feed Back
1	There was no occurance of Khaira disease due to application of Zinc sulphate (25 Kg/ha.) in paddy crop.
2	There were no symptoms of iron defficiency due to application of Ferrous sulphate (15 Kg/ha.) in paddy crop.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Use of Zinc sulphate & Ferrous sulphate as basal dose in paddy crop to increase the yield.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1.	Farmers Training	02	40	
2.	Media coverage	02	mass	

FLD No. : 4
Soil Science : Paddy

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Paddy	INM	Use of water soluble fertilizer 18:18:18 NPK @ 12.5 Kg/ha. (Three spray)	Kharif 2016	4.0	4.0	-	10	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Kharif 2016	Irrigated	Sandy loam and loam	Medium	Medium	Medium	Wheat	21-28 July 2016	10-15 Nov. 2016	-	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Paddy	INM.	Use of water soluble fertilizer 18:18:18 NPK @ 12.5 Kg/ha. (Three spray)	PB - 1509	10	4.0	48.6	48.2	48.4	43.19	12.0	43750	106480	62730	1:2.43	42850	95058	52168	1:2.21

a. Technical feedback

S. No	Feed Back
1	Spray of water soluble fertilizer 18:18:18 NPK @ 12.5 Kg/ha. at tillering stage,before flowering & milk stage enhance crop yield.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Three spray of water soluble fertilizer 18:18:18 NPK is very effective to enhance the yield of paddy crop.
2	This technology save the cost of cultivation i.e. Fertilizers.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1.	Farmers Training	02	40	
2.	Media coverage	02	mass	

FLD No. : 5
Soil Science : Wheat

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Wheat	INM	Use of zinc sulphate in wheat crop under rice-wheat cropping system	Rabi 2016-17	6.0	6.0	01	14	15	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Wheat	Rabi 2016-17	Irrigated	Sandy loam and loam	Medium	Medium	Medium	Paddy	22.12.16 to 25.12.16	08-13.04.2017	-	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q/ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Wheat	INM.	Use of zinc sulphate in wheat crop under rice-wheat cropping system	CVW-38	15	6.0	46.8	44.0	45.2	37.8	21.01	30410	73902	43492	1:2.43	29110	61803	32693	1:2.12

a. Technical feedback

S. No	Feed Back
1	Use of Zinc sulphate (25 Kg/ha.) in wheat crop is essential for healthy & vigourous crop & also to stop the stunting growth of the crop.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Use of Zinc sulphate (25 Kg/ha.) in wheat crop gave better yield as compare to un treated plots.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1.	Farmers Training	02	40	
2.	Media coverage	02	mass	

FLD No. : 6
Soil Science : Wheat

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Wheat	INM	Use of water soluble fertilizers in wheat crop	Rabi 2016-17	4.0	4.0	01	09	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Wheat	Rabi 2016-17	Irrigated	Sandy loam and loam	Medium	Medium	Medium	Paddy	22.12.16 to 24.12.16	08-12.04.17	-	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Wheat	INM.	Use of water soluble fertilizers in wheat crop	CVW - 38	10	4.0	47.3	45.8	46.5	38.3	21	30525	76027	45502	1:2.49	29625	62620	32995	1:2.11

a. Technical feedback

S. No	Feed Back
1	Spray of water soluble fertilizer 18:18:18 NPK @ 12.5 Kg/ha. at tillering stage,before flowering & milk stage enhance crop yield.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Three spray of water soluble fertilizer 18:18:18 NPK is very effective to enhance the yield of wheat crop.
2	This technology save the cost of cultivation i.e. Fertilizers.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1.	Farmers Training	02	40	
2.	Media coverage	02	mass	

FLD No. : 7

Plant Protection : Paddy

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Paddy	IDM	Control of blast disease through Hexaconazole 4% + Zineb 68% (Two spray)	Kharif 2016	4.0	4.0	-	10	10	N.A.

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Kharif 2016	Irrigated	Loam	Low	Medium	Medium	Wheat	12-16 July. 2016	10-18 Nov.2016	-	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Paddy	IDM	Control of blast disease through Hexaconazole 4% + Zineb 68% (Two spray)	PHB-71	10	4.0	62	58.5	60.25	53.25	13.14	39100	91881.25	52781.25	1:2.34	37950	81206.25	43256.25	1:2.13

a. Technical feedback

S.No	Feed Back
1	First spray of Hexaconazole 4% + Zineb 68% should be done at the just time of appear of disease symptoms on leaf and after that second spray of Hexaconazole 4% + Zineb 68% should be done after 15 days intervals of first spray is very effective to control blast disease in paddy.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Two spray of Hexaconazole 4% + Zineb 68% is very effective to control blast disease in paddy.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1	Field Days	01	28	
2	Media coverage	01	Mass	

FLD No. : 8

Plant Protection : Urdbean

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Urdbean	IDM	Control of Mosaic disease in Urdbean through Imidacloprid 17.8 SL @ 250ml/hac. (Two spray)	Kharif 2016	4.0	4.0	-	10	10	N.A.

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Urdbean	Kharif 2016	Irrigated	Sandy Loam	Low	Low	Medium	Wheat	01-05 Aug. 2016	15-18 Nov.2016	-	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q/ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Urd	IDM	Control of Mosaic disease through Imidacloprid 17.8 SL @ 250 ml/ha. (Two spray)	Alankar	10	4.0	12	09	10.5	8.5	23.52	21365	63000	41625	1:2.94	20975	51000	30025	1:2.43

a. Technical feedback

S.No	Feed Back
1	First spray of Imidacloprid 17.8 SL should be done at the just starting time of incidence of disease (Mosaic) and second spray of Imidacloprid should be done after 12-15 days of first spray is very effective to control mosaic disease in urd crop.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Two Spray of Imidacloprid 17.8 SL is very effective to control mosaic disease in urd crop.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1	Field Days	01	23	
2	Media coverage	01	Mass	

FLD No. : 9

Plant Protection : Sugarcane

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Sugarcane	IPM	Control of top borer in sugarcane through carbofuran 3CG @ 30 Kg/hac..	Zaid 2016	4.0	4.0	-	10	10	N.A.

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
S.cane	Zaid 2016	Irrigated	Loam	Low	Medium	Medium	Toria	26 Feb -05 March 2016	15-21 Feb. 2017	-	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
S.cane	IPM	Control of top borer in sugarcane through carbofuran 3CG @ 30 Kg/hac..	CO-0238	10	4.0	825	780	802.5	730	9.93	82400	244762	162362	1:2.97	81350	22650	141300	1:2.73

a. Technical feedback

S.No	Feed Back
1	Application of Carbofuran 3CG @ 30Kg/ha. in the soil in the first week of july and after application, irrigation should be done as soon as possible or with in same day is very effective to control of top borer in sugarcane.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Application of Carbofuran 3CG @ 30Kg/ha. in the soil in sugarcane is very effective to control Top borer in sugarcane.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1	Field Days	01	30	
2	Media coverage	01	Mass	

FLD No. : 10
Soil Science : Sugarcane

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	S.Cane	INM	Nutrient mangement through Zinc sulphate - 30kg/ha & FeSo4 - 20kg/ha.	Zaid 2016	6.0	6.0	-	15	15	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
S.cane	Zaid 2016	Irrigated	Sandy loam and loam	Medium	Medium	Low	Mustard	18.02.16 to 29.02.16	20-26.02.2017	-	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q/ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
S.cane	INM	Nutrient mangement through Zinc sulphate - 30kg/ha & FeSo4 - 20kg/ha.	C0-0238	15	6.0	1123.51	1092	1107	903	22.5	93450	348705	255255	1:3.73	91350	284445	193095	1:3.11

a. Technical feedback

S.No	Feed Back
1	Use of Zinc sulphate (30 Kg/ha.) in S.cane crop is essential for healthy & vigourous crop & also to stop the stunting growth of the crop.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Use of Zinc sulphate (30 Kg/ha.) in S.cane crop gave better yield as compare to un treated plots.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1	Field Days	01	30	
2	Media coverage	01	Mass	

FLD No. : 11
Soil Science : Sugarcane

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	S.Cane	INM	Nutrient mangement through Zinc sulphate - 25kg/ha & FeSo4 - 20kg/ha.	Zaid 2017	4.0	4.0	09	01	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
S.cane	Zaid 2017	Irrigated	Sandy loam and loam	Medium	Medium	Low	Wheat	04-10 March 2017		-	-

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
S.cane	INM	Nutrient mangement through Zinc sulphate - 25kg/ha & FeSo4 - 20kg/ha.	C0S-0238	10	4.0													

FLD No. : 12
Soil Science : Sugarcane

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	S.Cane	INM	Use of water soluble fertilizer 18:18:18 NPK @ 13.75 Kg/ha.	Zaid 2017	4.0	4.0	-	10	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
S.cane	Zaid 2017	Irrigated	Sandy loam and loam	Medium	Medium	Low	Wheat	04-06 March 2017	-	-	-

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield q/ha			Yield of local Check q./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
S.cane	INM	Use of water soluble fertilizer 18:18:18 NPK @ 13.75 Kg/ha.	C0S-0238	10	4.0													

FLD No. : 13

Plant Protection : Mentha

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Mentha	IPM	Control of leaf eating caterpillars through Quinalphos 25 EC @ 2.0 lit/hac. & Monocrotophos 36 SL @ 1.5 lit/hac. as I and II spray respectively.	Zaid 2016	4.0	4.0	-	10	10	N.A.

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Mentha	Zaid 2016	Irrigated	Sandy loam	Low	Medium	Medium	Toria-potato	07-13 Feb 2016	09-15June 2016	-	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Kg./ha			Yield of local Check Kg./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)			
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return	BCR (R/C)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Mentha	IPM	Control of leaf eating cateroillars through Quinalphos 25 EC @ 2.0 lit/hac. & Monocrotophos 36 SL @ 1.5 lit/hac. as I and II spray respectively	Kosi	10	4.0	121	116.5	118.75	105.62	12.30	63228	115781	52543	1:1.83	62500	102980	40480	1:1.64

Technical feedback

S.No	Feed Back
1	First spray of quinalphos 25EC at the beginning of insect infestation and second spray of monocrotophos 36SL after 15 to 20 days of previous spray is very effective to control of leaf eating caterpillars in mentha and others harm full insects.

b. Farmers reaction on specific technologies

S. N.	Feedback
1	Spray of quinalphos and monocrotophos seperately as I and II spray is very effective to control leaf caterpillars in mentha crop.

c. Extension and Training activities under FLD

S.No.	Activity	No. of activity organised	No. of participants	Remarks
1	Field Days	01	27	
2	Media coverage	01	Mass	

FLD No. : 14

Plant Protection : Mentha

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Mentha	IPM	Control of leaf eating caterpillars through Quinalphos 25 EC @ 2.0 lit/hac. & Monocrotophos 36 SL @ 1.5 lit/hac. as I and II spray respectively.	Zaid 2017	4.0	4.0	04	06	10	N.A.

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Mentha	Zaid 2017	Irrigated	Loam & Sandy loam	Low	Medium	Medium	Potato	08-11 Feb 2017	-	-	-

Performance of FLD

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Kg./ha			Yield of local Check Kg./ha	Increase in yield (%)	Economics of demonstration (Rs./ha.)				Economics of check (Rs./ha.)		
						H	L	A			Gross Cost	Gross Return	Net return	BCR (R/C)	Gross Cost	Gross Return	Net return
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Mentha	IPM	Control of leaf eating cateroillars through Quinalphos 25 EC @ 2.0 lit/hac. & Monocrotophos 36 SL @ 1.5 lit/hac. as I and II spray respectively	Kosi	10	4.0	**Result awaited**											

III. (A) Achievements on Training (April 2016 to March 2017)
Brief Achievement of Training

Discipline	No. of courses	Others			SC/ST			G.Total
		Male	Female	Total	Male	Female	Total	
Practicing Farmers & Farm Women On Campus								
Crop Production	09	154	-	154	26	-	28	180
Horticulture	-	-	-	-	-	-	-	-
Agro Forestry	01	18	-	18	02	-	02	20
Plant Breeding	-	-	-	-	-	-	-	-
Plant protection	07	110	-	110	30	-	30	140
Soil Sciene	03	55	-	55	05	-	05	60
Total	**20**	**337**	**-**	**337**	**63**	**-**	**63**	**400**

Practicing Farmers & Farm Women Off Campus								
Crop Production	09	158	-	158	22	-	22	180
Horticulture	-	-	-	-	-	-	-	-
Agro Forestry	-	-	-	-	-	-	-	-
Plant Breeding	-	-	-	-	-	-	-	-
Plant protection	08	149	-	149	11	-	11	160
Soil Science	16	287	-	287	33	-	33	320
Total	**33**	**594**	**-**	**594**	**66**	**-**	**66**	**660**

Rural Youth								
Crop Production	-	-	-	-	-	-	-	-
Horticulture	-	-	-	-	-	-	-	-
Agro Forestry	-	-	-	-	-	-	-	-
Plant Breeding	-	-	-	-	-	-	-	-
Plant Protection	02	20	-	20	-	-	-	20
Soil Science	02	20	-	20	-	-	-	20
Total	**04**	**40**	**-**	**40**	**-**	**-**	**-**	**40**

Extension functionaries								
Crop Production	03	24	-	24	06	-	06	30
Horticulture	-	-	-	-	-	-	-	-
Agro Forestry	-	-	-	-	-	-	-	-
Plant Breeding	-	-	-	-	-	-	-	-
Plant protection	03	26	-	26	04	-	04	30
Soil Science	10	78	-	78	22	-	22	100
Total	**16**	**128**	**-**	**128**	**32**	**-**	**32**	**160**

III. (B) Training programme

Farmers' Training including sponsored training programme

A) On Campus)

Thematic Area	No. of courses	No. of participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
A) Farmers & Farm Women										
I. Crop production										
- Weed management	02	35	-	35	05	-	05	40	-	40
Resource Conservation Technology	01	18	-	18	02	-	02	20	-	20
Cropping system	-	-	-	-	-	-	-	-	-	-
Micro irrigation/ irrigation	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	02	27	-	27	13	-	13	40	-	40
Integrated nutrient management	03	58	-	58	02	-	02	60	-	60
Total	**08**	**138**	**-**	**138**	**22**	**-**	**22**	**160**	**-**	**160**
II. Horticulture										
(a) Vegetable crops										
Others - - Integrated crop management										
Total (a)										
(b) Fruits										
- Cultivation of fruits										
Total (b)										
(c) Ornamental plants										
- Prop. technique of ornamental plants	-	-	-	-	-	-	-	-	-	-
Total (c)										
(e) Tuber Crops										
- Production & Management Tech.	-	-	-	-	-	-	-	-	-	-

Total (e)										
(f) Spices										
- Production & Management Tech.	-	-	-	-	-	-	-	-	-	-
Total (f)	-	-	-	-	-	-	-	-	-	-
(g) Medicinal & Aeromatic plants										
- Production & Management Tech.	01	16	-	16	04	-	04	20	-	20
- Cultivation of fruits										
Total (g)	**01**	**16**	**-**	**16**	**04**	**-**	**04**	**20**	**-**	**20**
Total (a-g)										
III. Soil Health and Fertility Management										
Soil Fertility Management	-	-	-	-	-	-	-	-	-	-
INM	01	18	-	18	02	-	02	20	-	20
Production & use of organic inputs	-	-	-	-	-	-	-	-	-	-
Micro-nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Balance use of fertilizers	-	-	-	-	-	-	-	-	-	-
Soil & Water testing	02	37	-	37	03	-	03	40	-	40
Total	**03**	**55**	**-**	**55**	**05**	**-**	**05**	**60**	**-**	**60**
IV. Livestock Production and Management										
- Dairy Management	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
VII. Plant Protection										
- IPM	05	89	-	89	11	-	11	100	-	100
- IDM	02	21	-	21	19	-	19	40	-	40
Total	**07**	**110**	**-**	**110**	**30**	**-**	**30**	**140**	**-**	**140**
XI. Agro forestry										
- Production technology	01	18	-	18	02	-	02	20	-	20
Total	**01**	**18**	**-**	**18**	**02**	**-**	**02**	**20**	**-**	**20**
GRAND TOTAL	**20**	**337**	**-**	**337**	**63**	**-**	**63**	**400**	**-**	**400**

B) Off Campus

Thematic Area	No. of courses	No. of participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
A) Farmers & Farm Women										
I. Crop production										
- Weed management	01	19	-	19	01	-	01	20	-	20
Croping System	02	37	-	37	03	-	03	40	-	40
Integrated Crop Management	04	66	-	66	14	-	14	80	-	80
Integrated nutrient management	02	36	-	36	04	-	04	40	-	40
Total	**09**	**158**	**-**	**158**	**22**	**-**	**22**	**180**	**-**	**180**
II. Horticulture										
(a) Vegetable crops										
Others										
Total (a)										
(b) Fruits										
-Cultivation of fruits										
Total (b)										
(c) Ornamental plants										
- Prop. technique of ornamental plants	-	-	-	-	-	-	-	-	-	-
Total (c)										
(e) Tuber Crops										
- Production & Management Tech.										
Total (e)										
(f) Spices										
- Production & Management Tech.										
Total (f)										
(g) Medicinal & Aeromatic plants										

- Production & Management Tech.	-	-	-	-	-	-	-	-	-	-
- Cultivation of fruits										
Total (g)	-	-	-	-	-	-	-	-	-	-
Total (a-g)	-	-	-	-	-	-	-	-	-	-
III. Soil Health and Fertility Management										
Soil Fertility Management	01	19	-	19	01	-	01	20	-	20
INM	07	119	-	119	21	-	21	140	-	140
Production & use of organic inputs	03	57	-	57	03	-	03	60	-	60
Micro-nutrient deficiency in crops	02	40	-	40	-	-	-	40	-	40
Balance use of fertilizers	-	-	-	-	-	-	-	-	-	-
Soil & Water testing	03	52	-	52	08	-	08	60	-	60
Total	**16**	**287**	**-**	**287**	**33**	**-**	**33**	**320**	**-**	**320**
IV. Livestock Production and Management										
- Dairy Management										
- Animal Nutrition management										
- Disease Management										
- Feed & fodder technology										
Total										
VII. Plant Protection										
- IPM	5	89	-	89	11	-	11	100	-	100
- IDM	3	60	-	60	-	-	-	60	-	60
Total	**8**	**149**	**-**	**149**	**11**	**-**	**11**	**160**	**-**	**160**
XI. Agro forestry										
- Production technology	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL	**33**	**594**	**-**	**594**	**66**	**-**	**66**	**660**	**-**	**660**

C. On + Off Campus

Thematic Area	No. of courses	No. of participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
A) Farmers & Farm Women										
I. Crop production										
- Weed management	03	54	-	54	06	-	06	60	-	60
Resource Conservation Technology	01	18	-	18	02	-	02	20	-	20
Cropping system	02	37	-	37	03	-	03	40	-	40
Micro irrigation/ irrigation										
Nursery management										
Integrated Crop Management	06	93	-	93	27	-	27	120	-	120
Integrated nutrient management	05	94	-	94	06	-	06	100	-	100
Total	**17**	**296**	**-**	**296**	**44**	**-**	**44**	**340**	**-**	**340**
II. Horticulture										
(a) Vegetable crops										
- Others Integrated crop management										
Total (a)										
(b) Fruits										
Cultivation of fruits										
Total (b)										
(c) Ornamental plants										
- Prop. technique of ornamental plants										
Total (c)										
(e) Tuber Crops										
- Production & Management Tech.										
Total (e)										

(f) Spices										
- Production & Management Tech.										
Total (f)										
(g) Medicinal & Aeromatic plants										
- Production & Management Tech.	01	16	-	16	04	-	04	20	-	20
- Cultivation of fruits										
Total (g)	**01**	**16**	**-**	**16**	**04**	**-**	**04**	**20**	**-**	**20**
Total (a-g)	-	-	-	-	-	-	-	-	-	-
III. Soil Health and Fertility Management										
Soil Fertility Management	01	19	-	19	01	-	01	20	-	20
INM	08	137	-	137	23	-	23	160	-	160
Production & use of organic inputs	03	57	-	57	03	-	03	60	-	60
Micro-nutrient deficiency in crops	02	40	-	40	-	-	-	40	-	40
Balance use of fertilizers	01	18	-	18	02	-	02	20	-	20
Soil & Water testing	05	89	-	89	11	-	11	100	-	100
Total	**19**	**342**	**-**	**342**	**38**	**-**	**38**	**380**	**-**	**380**
IV. Livestock Production and Management										
- Dairy Management										
Total										
VII. Plant Protection										
- IPM	10	178	-	178	22	-	22	200	-	200
- IDM	5	81	-	81	19	-	19	100		100
Total	**15**	**259**	**-**	**259**	**41**	**-**	**41**	**300**		**300**
XI. Agro forestry										
- Production technology	01	18	-	18	02	-	02	20	-	20
Total	**01**	**18**	**-**	**18**	**02**	**-**	**02**	**20**	**-**	**20**
GRAND TOTAL	**53**	**931**	**-**	**931**	**129**	**-**	**129**	**1060**	**-**	**1060**

D. RURAL YOUTH / VOCATIONAL TRAINING (ON CAMPUS)

Area of training	No. of courses	No. of participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Production of organic inputs										
Vermi composting	-	-	-	-	-	-	-	-	-	-
Press mud composting	-	-	-	-	-	-	-	-	-	-
Mushroom production	-	-	-	-	-	-	-	-	-	-
Bee Keeping	-	-	-	-	-	-	-	-	-	-
Seed Production (Rice)	-	-	-	-	-	-	-	-	-	-
Seed Production (Rice & wheat)	-	-	-	-	-	-	-	-	-	-
Grand Total										

E. RURAL YOUTH / VOCATIONAL TRAINING (OFF CAMPUS)

Area of training	No. of courses	No. of participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Production of organic inputs										
Vermi composting	**02**	**20**	**-**	**20**	**-**	**-**	**-**	**20**	**-**	**20**
Press mud composting	-	-	-	-	-	-	-	-	-	-
Mushroom production	-	-	-	-	-	-	-	-	-	-
Bee Keeping	**02**	**20**	**-**	**20**	**-**	**-**	**-**	**20**	**-**	**20**
Seed Production (Rice)	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and **goat rearing**	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Grand Total	**04**	**40**	**-**	**40**	**-**	**-**	**-**	**40**	**-**	**40**

F. RURAL YOUTH / VOCATIONAL TRAINING (ON + OFF CAMPUS)

Area of training	No. of courses	No. of participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Production of organic inputs										
Vermi composting	**02**	**18**	**-**	**18**	**02**	**-**	**02**	**30**	**-**	**30**
Press mud composting	-	-	-	-	-	-	-	-	-	-
Mushroom production	-	-	-	-	-	-	-	-	-	-
Bee Keeping	**02**	**20**	**-**	**20**	**-**	**-**	**-**	**20**	**-**	**20**
Seed Production (Rice)	-	-	-	-	-	-	-	-	-	-
Seed Production (Rice & wheat)	-	-	-	-	-	-	-	-	-	-
Planting Material Production (Medicinal & Aromatic plants)	-	-	-	-	-	-	-	-	-	-
Commercial spices production										
Commercial Fruit Production & Nursery	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and **goat rearing**	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Grand Total	**04**	**38**	**-**	**38**	**02**	**-**	**02**	**40**	**-**	**40**

G. EXTENSION PERSONNEL (OFF CAMPUS)

Area of training	No. of courses	No. of participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
INM	07	58	-	58	12	-	12	70	-	70
Production & use of organic inputs	04	28	-	28	12	-	12	40	-	40
Productivity enhancement in field crops	02	16	-	16	04	-	04	20	-	20
Integrated pests management	**03**	**26**	**-**	**26**	**4**	**-**	**4**	**30**	**-**	**30**
Productivity enhancement of Horticultural crops	-	-	-	-	-	-	-	-	-	-
Productivity enhancement of Agro-forestry	-	-	-	-	-	-	-	-	-	-
Disease Management of farm animals	-	-	-	-	-	-	-	-	-	-
Production enhancement of medicinal & aeromatic crop	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
Grand Total	**16**	**128**	**-**	**128**	**32**	**-**	**32**	**160**	**-**	**160**

F. Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and Management										
Increasing production and Productivity of crops										
Commercial production of vegetables & Fruits										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management Vermi composting										
Production of inputs at site										
Methods of protective cultivation										
Others										
Press mud composting										
F.T.T (08-10 March 2017)	01	11	-	11	39	-	39	50	-	50
F.T.T (08-10 March 2017)	01	18	-	18	32	-	32	50	-	50
F.T.T (20-22 March 2017)	01	32	-	32	18	-	18	50	-	50
F.T.T (22-24 March 2017)	01	37	-	37	13	-	13	50	-	50
Total	**04**	**98**	**-**	**98**	**102**	**-**	**102**	**200**	**-**	**200**
Post harvest technology and value addition										
Processing and value addition										
Others (Pl. specify)										
Total										
Farm machinery										
Farm machinery,tools and implements										
Others (Pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management Goat rearing										

Animal Nutrition management										
Animal disease management										
Fisheries nutrition										
Fisheries management										
Others(pl. specify) Poultry farming										
Total										
Home science										
Household nutritional security										
Economic empowerment										
Drudgery reduction of women										
Others (Pl. specify)										
Total										
Agricultural Extension										
Capacity Building and group dyanamics										
Others (Pl. specify) **Exposer Visit at SVPUA & T, Meerut on dated (05.10.2016)** **(one Bus)**	01	50	-	50	-	-	-	50	-	50
Total	**01**	**50**	**-**	**50**	**-**	**-**	**-**	**50**	**-**	**50**
Grand Total	**05**	**148**	**-**	**148**	**102**	**-**	**102**	**250**	**-**	**250**

Name of sponsoring agencies involved – F.T.T. programme funded by U.P. Govt.

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture	-	-	-	-	-	-	-	-	-	-
Commercial fruit production (Papaya & banana)	-	-	-	-	-	-	-	-	-	-
Commercial spices production										
Integrated crop management	-	-	-	-	-	-	-	-	-	-
Organic farming										
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total										
Post harvest technology and value addition										
Value addition	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total										
Livestock and fisheries										
Dairy farming	-	-	-	-	-	-	-	-	-	-
Composite fish culture										
Goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										

Income generation activities										
Vermicomposting	02	18	-	18	02	-	02	20	-	20
Prees mud composting	-	-	-	-	-	-	-	-	-	-
Production of bio-agents, bio-pesticides,	-	-	-	-	-	-	-	-	-	-
bio-fertilizers etc.	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery	-	-	-	-	-	-	-	-	-	-
and implements	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Seed production (Rice & Wheat)										
Seed production (Rice)	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Nursery (Planting material production).	-	-	-	-	-	-	-	-	-	-
Nursery (Planting material production). of Agroforestry trees	-	-	-	-	-	-	-	-	-	-
Tailoring, stitching, embroidery, dying etc.	-	-	-	-	-	-	-	-	-	-
Agril. para-workers, para-vet training	-	-	-	-	-	-	-	-	-	-
Others (pl. specify) Bee-keeping	02	20	-	20	-	-	-	20	-	20
Total										
Agricultural Extension										
Capacity building and group dynamics	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total										
Grand Total	**04**	**38**	**-**	**38**	**02**	**-**	**02**	**40**	**-**	**40**

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	238	1502	22	1524
Diagnostic visits	-	-	-	-
Field Day	11	377	-	377
Group discussions	-	-	-	-
Kisan Ghosthi	21	4882	105	4987
Film Show	16	1020	-	1020
Self -help groups	-	-	-	-
Kisan Mela	10	14100	1178	15278
Exhibition	-	-	-	-
Scientists' visit to farmers field	266	4914	-	4914
Pre- Kharif Krishak Gosti & Kisan Mela	-	-	-	-
Pre Rabi Kisan Sammelan	01	313	12	325
Ex-trainees Sammelan	-	-	-	-
Farmers' seminar/workshop	01	150	6	156
Method Demonstrations	-	-	-	-
Celebration of important days (Kisan samman Sammaroh) at KVK	01	82	-	82
Special day celebration (World soil health Day)	01	305	-	305
Exposure visits	01	50	-	50
Others (pl. specify)				
Visit of farmers & farmer group to KVK	464	2798	-	2798
Pradhanmantri Fasal Beema Yojna Prog.	01	700	20	720
Others	12	3956	383	4339
Total	**1044**	**35149**	**1726**	**36875**

A. Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	-
Extension Literature	02
News paper coverage	62
Popular articles	07
Radio Talks	04
TV Talks	-
Animal health amps (Number of animals treated)	-
Others (pl. specify) Research Paper	04
Total	**79**

B. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Lives tock	Weather	Marke-ting	Aware-ness	Other enterp rise	Total
Moradabad	Text only							
	Voice only							
	Voice & Text both							
	Total Messages							
	Total farmers Benefitted							

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
01	Gosthies	06	167	Crop+livestock
	Lectures organised	18	167	
	Film show	-	-	
	Distribution of Literature (No.)	02	167	
	Fair	-	-	
	Exhibition	-	-	
	Total number of farmers visited the technology week	1	167	

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

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	**Paddy Kharif 2016**	**PB - 1121**	**-**	**131.26**	-	supplied to NSC Meerut
Total				**131.26**		
	Wheat Rabi 2016-17	**WH - 1105** **DBW - 90**		**305.95** **185.70**		supplied to NSC Meerut
Total				**491.65**		
Oilseeds						
Pulses	**Urd Kharif 2016**	**PU - 31**		**13.0**		supplied to NSC Meerut
	Total			**13.0**		
G.Total				**635.91**		

Commercial crops						
	Total					
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						

Others (Seed Mixture)						
Grand Total						

A. Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest species						
Others						
Total						

B. Production of Bio-Products

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

C. Production of livestock materials

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

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	**43**	**305**	**05**	
Water				
Plant				
Manure				
Others (pl.specify)				
Total				

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Krishi Vigyan Kendra, Moradabad (09th January 2017)	01

IX. NEWSLETTER

Name of KVK	Number of Copies printed for distribution

X. PUBLICATIONS

Category	Number
Research Paper	02
Technical bulletins	-
Technical reports	08
Others (pl. specify) Article	07
Toatl	**17**

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

Activities conducted				
No. of Training programmes	**No. of Demonstrations**	**No. of plant materials produced**	**Visit by farmers (No.)**	**Visit by officials (No.)**
NA				

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

A. Introduction of alternate crops/varieties - NA

Crops/cultivars	Area (ha)	Number of beneficiaries

B. Major area coverage under alternate crops/varieties - NA

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

C. Farmers-scientists interaction on livestock management - NA

Livestock components	Number of interactions	No.of participants
Total		

D. Animal health camps organised -NA

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

E. Seed distribution in drought hit states - NA

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

F. Large scale adoption of resource conservation technologies - NA

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

G. Awareness campaign

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

XIII. DETAILS ON HRD ACTIVITIES

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

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
S.V.P.U. Agri. & Tech., Meerut	Capacity buildingof extension scientist	01	02	01
Total		01	02	01

B. HRD activities organized in identified areas for KVK staff by Zonal Project Directorate

Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
Training cum workshop for Agronomy scientist	01	01	01
Training cum workshop for Soil Science scientist	01	01	01
Training cum workshop for Plant protection scientist	01	01	01
workshop on soil testing kit & institute foundation day	01	01	01
Review meeting of NFSM - oil seed & pulses	01	01	01
Review meeting of PPVR	01	01	01
Total	06	06	06

XIV. CASE STUDIES (CASE STUDIES MAY BE GIVEN IN DETAIL AS PER THE FOLLOWING FORMAT)

Each Zone should propose a minimum of three case studies with good action photographs (with captions on the backside of the hard copy of the photos) on the following topics

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

The general format for preparing the above case studies are furnished below

Name of the KVK

A. TITLE

B. Introduction

KVK intervention
Output
Outcome
Impact

1. खेती व सह व्यवसाय (मधुमक्खी पालन) पर सफलता की कहानी

डा0 अरविन्द कुमार एवं डा0 आर0के0 सिंह, कृषि विज्ञान केन्द्र, मुरादाबाद
(स.व.भा.प. कृषि एवं प्रौ. वि0वि0, मेरठ) उ0प्र0

कृषक का नाम	**श्री राजपाल सिंह**
पिता का नाम	**श्री होरी सिंह**
ग्रा0	**खानपुर**
पो0	**सराय ज्वालापुरी**
जिला	**मुरादाबाद**
फोन नं0	**8650712817**
शैक्षिक योग्यता	**जूनियर हाईस्कूल**
आयु	**50 वर्ष**
कृषि योग्य भूमि	**4.0 एकड**

श्री राजपाल सिंह का मुख्य व्यवसाय कृषि है तथा यह काफी लम्बे समय से कृषि करते आ रहे है । इनकी मुख्य फसलें धान, गेहूँ, सरसों, उर्द है । परन्तु इन फसलों की खेती करने से श्री राजपाल सिंह को काफी मेहनत करने के बाद भी आपेक्षित लाभ नही मिल पाता था । अतः इनके दिमाग में खेती के साथ–साथ खेती से ही जुडा हुआ कोई अन्य व्यवसाय करने की बात आई। कोई अन्य व्यवसाय करने की बात सोचकर इन्होने कृषि विज्ञान केन्द्र से सम्पर्क किया । केन्द्र के कृषि वैज्ञानिकों से विचार विमर्श किया तो वैज्ञानिकों ने मधुमक्खी पालन करने की सलाह दी । तो इन्होने 2009 में 5 बॉक्स से शुरूआत की परन्तु इन्हे आपेक्षित लाभ नही मिल सका तब इन्होंने डा0 अरविन्द कुमार, वैज्ञानिक पादप सुरक्षा से वार्ता की । डा0 अरविन्द कुमार ने बताया कि हम रोजगार परक प्रशिक्षण के अन्तर्गत एक सप्ताह का मधुमक्खी पालन का प्रशिक्षण देते है । अतः श्री राजपाल सिंह ने वर्ष 2012 में प्रशिक्षण प्राप्त कर मधुमक्खी पालन का कार्य शुरू किया । कार्य प्रारभ्भ करने के उपरान्त बहुत सी समस्याये इनके सामने आयी जैसे – मधुमक्खियों की बीमारी, मधुमक्खी की अच्छी प्रजाति का

न मिलना, कृत्रिम भेजन को समय पर न देना, माईग्रेशन न कराना, सफाई पर विशेष ध्यान न देना आदि, परन्तु ये समय–समय पर केन्द्र पर कार्यरत डा0 अरविन्द कुमार से वार्ता कर मधुमक्खी पालन से सम्बन्धित समस्याओं का समाधान करते रहे । केन्द्र के वैज्ञानिकों द्वारा भी इनके यहॉ भ्रमण किया गया । वर्ष 2015–16 में इनके पास 150 बाक्स थे। जो वर्ष 2016–17 में बढकर 200 बॉक्स हो गये है । तथा अच्छी गुणवत्तायुक्त शहद का उत्पादन कर रहे है । वर्ष 2015–16 में इनका शहद उत्पादन 52.50 कु0 हुआ तथा 37.5 किलो0 मोम उत्पादन भी हुआ जिसका मुल्य रू0 536250.00 तथा शुद्व आय रू0 311250.00 प्राप्त हुई।

आय में वृद्वि – इस प्रकार विगत वर्षो में खेती से आय रू0 138400.00 तथा खेती के साथ सह व्यवसाय के रूप में मधुमक्खी पालन से रू0 311250.00 प्राप्त हुये । इस प्रकार कुल आय एक वर्ष में रू0 449650.00 प्राप्त हुये ।

प्रसार – इनके मधुमक्खी पालन के कार्य को देखकर गॉव के चार कृषक तथा आस–पास के ग्रामों में भी मधुमक्खी पालन का कार्य चल रहा है । इस प्रकार खेती के साथ–साथ उक्त सह व्यवसाय को अपनाने के लिये मेरे द्वारा भी तथा कृषि विज्ञान केन्द्र द्वारा भी प्रेरित किया जाता है। ताकि मेरी तरह अन्य कृषक भाईयों की आय में बढोत्तरी हो सके ।

प्रशस्ति पत्र – मेरे कार्य को देखते हुये केन्द्र द्वारा वर्ष 2016 में मुझे प्रशस्ति पत्र देकर सम्मानित किया गया ।

खेती के साथ सहव्यवसाय (मधुमक्खीपालन) का आर्थिक मूल्यांकन

खेती से आय – (2015–16)

फसल एवं प्रजाति	क्षेत्रफल (एकड)	उत्पादन प्रति एकड कु0	कुल उत्पादन कु0	बिक्री दर/कु0	कुल आय (रू0 में)	लागत (रू0 में)	शुद्व आय (रू0 में)
खरीफ							
धान हाइब्रिड (PHB-71)	2.0	22	44	1250	55000	24000 (12000 प्रति एकड)	31000
उर्द (अलंकार)	2.0 एकड	4.8	9.6	5500	52800	16000 (8000 प्रति एकड)	36800

रबी सीजन							
गेहूँ (PBW-550) भूसा	3.0	18	54 50कु0	1500	81000	42000 (140 प्रति एकड)	39000 20000
							126800
सरसों (क्रांति)	1.0	6.0	6	3400	20400	9000 (9000 प्रति एकड)	11600
						कुल आय	**138400**

मधुमक्खीपालन से आय –

बॉक्स सं0	उत्पादन किग्रा0/वर्ष	मोम उत्पादन किग्रा0/वर्ष	बिक्री दर शहद	बिक्री दर मोम	कुल आय शहद + मोम	लागत/वर्ष	शुद्ध आय
150	5250	37.5	100	300	525000 +11250 536250	225000	311250
							311250

कुल आय शुद्ध = रू0 138400 + 311250= 449650.00

2. Successful cultivation of intercrops in Autumn Sugarcane

Dr. A.K.Mishra & Dr. R.K. Singh

Sri Sarnam Singh S/O Sri Itwari Singh resident of village Khanpur, Block Bilari, Distt. - Moradabad having about 5.0 Acres of land, come in contact with Krishi Vigyan Kendra, Moradabad in the year of 2012-13 and he was advised to grow Autumn sugarcane with intercrop in crop rotation to get better income from his farm. With this new technology, germination of sugarcane improved from 60-70% and ultimately got higher yield of sugarcane. Farmer was suggested to take such intercrops which having higher market demand like Garlic, Mustard, Potato etc. He was able to obtain additional income by growing intercrops in autumn sugarcane as compare to sole crop, but best results were obtained with sugarcane + garlic 2014-15 & 2015-16.

These intercrops proved highly beneficial in besides giving good economic return. The productivity of the system and economic is given below -

Table No. 1 : Economics of Different intercropping systems -

Year	Intercropping system	Yield (q/ha.)		Gross return (Rs./ha.)	Total Expenditure (Rs./ha.)	Net Return (Rs./ha.)	B:C: ratio
		S.Cane	Intercrop				
2013-14	S.cane + Mustard	675.50	15.50	219308	112425	113825	1:1.95
	S.cane + Potato	756.65	223.50	248565	125425	123140	1:1.98
2014-15	S.cane + Mustard	672.50	15.75	242275	123325	123625	1:1.96
	S.cane + Garlic	684.50	102.50	507255	186780	320475	1:2.72
2015-16	S.cane + Garlic	683.65	97.65	605950	224550	381400	1:2.70
	S.cane + Mustard	678.50	17.25	274103	138124	135979	1:1.98

Salient observation from different system –

Sugar Cane + Mustard : Intercropping of mustard with sugar cane is becoming very popular in the district.

i. The most optimum time of sowing both the crops is first for night of October.

ii. The sugarcane germination within 3-4 weeks, but in the month of Nov. The S.cane crop has remains dormant till February and this character facilities growth of Mustard.

iii. The mustard is harvested by mid march when temperature rices.

iv. The yield of mustard is up to15.75 q/ha. as additional production.

2. Sugarcane + Potato - Intercropping of sugarcane + Potato is also very profitable. In this system sugarcane is planted at 90 cm. distance in Ist week of october and one row

of Potato is planted between two row of sugarcane. Sugarcane crop is irrigated as per need of potato crop potato yield obtained from intercropping system in term of economically the net profit for both crops is Rs. 1,23140/- ha. & B.C. ratio is 1.98 respectively. Based on the existing agronomy, the potato based intercropping is not easy and not be common practice.

3. Sugarcane + Garlic

As the spices (garlic + onion) are very remunerative one labour intensive, their intercropping in autumn sugarcane my increase the income level as well as employment potential for small farmers. second thinks, these crop also posses peculiar odeeur which may serve as a repellent to the insect - pests of sugarcane (Verma etal., 1981) observed significant reduction in Top borrer incidence. When garlic was intercropped with sugarcane crop.

In case of Garlic + sugarcane intercropping system, planting of sugarcane is done in the month of October and simultaneously cloves of garlic are manually planted on the bed in row and field is immediately irrigated. Garlic yield from Sugarcane + Garlic intercropping system ranges from 102.5q/ha. and 97.65 q/ha. in the year of 2014-15 & 2015-16, in term of economic purpose the highest net return received in sugarcane +garlic intercropping system Rs. 3,20475/- (2014-15) & 381400/- (2015-16) and B.C. Ratio is also higher as compare to other intercropping system 1:2.72 (2014-15) & 1:2.7. (2015-16)respectively.

Horizontal spread of Technology -

Sl. No.	Year	Intercropping system	No. of village	No. of farmers	Area (ha.)
01	2013-14	Sugarcane + Mustard	19	56	116
		Sugarcane + Potato	07	19	22
		Sugarcane + Garlic	12	25	51
02	2014-15	Sugarcane + Mustard	65	122	276
		Sugarcane + Potato	29	66	127
		Sugarcane + Garlic	14	27	43
03	2015-16	Sugarcane + Mustard	125	375	525
		Sugarcane + Potato	42	161	352
		Sugarcane + Garlic	19	32	66

Now Sri Sarnam Singh is fully satisfied with this technology and continuously growing various intercrops in autumn planted sugarcane and getting higher net returns from this system (Table No. 1) the is helping KVK in organizing various transfer of technological activities.

XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE

A. Details on ATICs

S. No	Name of the ATIC	Name of the Host Institute	Name of the ATIC Manager
1	KVK Moradabad	SVPUA & T, Meerut	Dr. A.K. Mishra

B. Details on Farmer's visit

S. No	Purpose of visit	Number of farmer's visited
01	Technology Information	
02	Technology Products	
03	Others if any pl. specify	

C. Facilities in the ATIC which are in operation

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

D. Technology information provide

D.1. Details on technology information

S. No	Information category	Number of ATICs	Total number of farmers benefitted	Category of information						
				Varieties / hybrids	Pest management	Disease management	Agro-techniques	Soil and water conservation	Post Harvest technology and Value addition	Animal Husbandry and fisheries
01	Kisan Call Centre / other Phone calls from farmers									
02	Video shows									
03	Letters received									
04	Letters replied									
05	Training to farmers / technocrats / students									
06	Other specifiy									
	Advisory services through mobile		1155							

D.2 . Publications (Print & Electronic media)

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

E. Technology Products provided

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

F. Technology services provided

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

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION

States covered:

Number of Directorates of Extension:

A. Details on Directors of Extension

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

B. Workshops / meetings organized

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

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

S. No.	Particulars	Number of visits
01	SAC meetings	01
02	Field days	
03	Workshops / seminars	-
04	Technology week	
05	Training programmes	
06	Others pl. specify - Visit of Hon'ble VC sir with Director Extension	01

D. Overseeing of KVKs activities

S. No.	Particulars	Number of fields visited	Major observations / remarks	Major suggestions given
01	On Farm Trials			
02	Front Line Demonstration			
03	Others pl. specify - All India coordinated wheat & Barley improvment Project	01	Obervation of kvk farm, trials, seed production, Small nursery & AVT trial	-

E. Publication on Technology inventory

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

F. Technological Products provided to KVKs

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

STATUS OF REVOLVING FUND

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 31st March 2017 of each year
2004 to 2005	100000.00	-	-	100000.00
2005 to 2006	100000.00	5640.17	90000.00	15640.17
2006 to 2007	15640.17	421859.41	235655.00	201844.58
2007 to 2008	201844.58	849384.00	392750.00	658478.58
2008 to 2009	658478.58	719344.00	647175.00	730647.58
2009-2010	730647.58	707686.75	714716.00	723618.33
2010-2011	723618.33	1041445.00	1248059.00	517004.33
2011-2012	517004.33	1536614.00	1177472.00	876146.33
2012-2013	876146.33	655085.00	768039.00	763192.00
2013-2014	763192.33	1483366.00	1929540.60* (1129540.60+800000)	317017.73
2014-15	317017.73	1036802.00	1050996.50	302823.23
2015-16	302823.23	776524.00	879725.50	199621.73
2016-17	199621.73	581546.73	765570.84	15597.86

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Budget Utilization Certificate for the year 2016-17 in respect of KVK, MORADABAD

SN		Particulars	Grant Sanctioned (RE) 2016-17	Grant Received for 2016-17	Actual Expenditure for 2016-17	Variation		Reason for variation
						(+) Saving	(-) Excess	
1		Pay & Allowances	8600000.00	7437000.00	8274380.00	0.00	-837380.00	
2		Travelling Allowances	120000.00	120000.00	119983.00	17.00	0.00	
3		HRD	50000.00	50000.00	0.00	50000.00	0.00	
4		Contigencies						
	a	Stationery, Telephone, postage and other expenditure on office running including	170000.00	170000.00	170000.00	0.00	0.00	
		Special Programme: IFS (5.00 lakh), Technology Information Unit (8.00 lakh)	1400000.00	1400000.00	743334.00	656666.00	0.00	
		Other Contingency : White Washing and minor repair of building including residential building, repair/maintenance of existing E-Extension	300000.00	300000.00	158069.00	141931.00		
	b	d) POL	110000.00	110000.00	109927.00	73.00	0.00	
	c	c) Vocational Training						
		i) Meals/Refreshment for trainees	100000.00	100000.00	40960.00	59040.00	0.00	
		ii) Training/Demostration Material	35000.00	35000.00	16445.00	18555.00	0.00	
	d	F.L.D.(Other than oil seed & pulses)	80000.00	80000.00	64926.00	15074.00	0.00	
	e	On Farm Trial	25000.00	25000.00	16317.00	8683.00	0.00	
	f	Training of Extn. Functionaries	25000.00	25000.00	2400.00	22600.00	0.00	
	g	Library (Purchase of Journal, News Paper & Magazines)	5000.00	5000.00	279.00	4721.00	0.00	
	h	Farmer's Fair	0.00	0.00	0.00	0.00	0.00	
	i	Misc. Expenditure [Rs. 2.50 lakh is provided for making Soil Testing Lab functional]	250000.00	250000.00	0.00	250000.00		
B		Total (A)	11270000.00	10107000.00	9717020.00	1227360.00	-837380.00	
		Non-Recurring items						
	a	Equipments [Furniture-1.00 lakh, Biometric Attendance Machine - 0.08 lakh, Comp. with Access.- (2 Nos.)-1.00 lakh, Genset - 5.00 lakh, E-Extension -	1008000.00	1008000.00	950446.00	57554.00	0.00	
	b	Works	0.00	0.00	0.00	0.00	0.00	
	c	Library	0.00	0.00	0.00	0.00	0.00	
	d	Vehicle	0.00	0.00	0.00	0.00	0.00	
		Total (B)	1008000.00	1008000.00	950446.00	57554.00	0.00	
C		Revolving Fund	0.00	0.00	0.00	0.00	0.00	
		Total (C)	0.00	0.00	0.00	0.00	0.00	
		Grand Total (A+B+C)	12278000.00	11115000.00	10667466.00	1284914.00	-837380.00	

Accountant
Sanjay Kr. Sharma
Office Supdt./Accountant

Sr. Scientist/Head
Senior Scientist & Head
Associate Director Extension
Krishi Vigyan Kendra, Moradaba...

Accounts Officer

Director Extension

Comptroller