ANNUAL REPORT 2010-11

(FOR THE PERIOD APRIL 2010 TO MARCH 2011)

BMT - KRISHI VIGYAN KENDRA (THANJAVUR)

PART I - GENERAL INFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
BMT – Krishi Vigyan Kendra Usilampatti, Manayeripatti (P.O), Sengipatti (Via), Thanjavur Dist-613402.	04362-293565	-	bmtkvk@gmail.com	**www.bmtkvk.org**

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

Address	Telephone		E mail	Web Address
	Office	Fax		
Bhakthavatsalam Memorial Trust, 596 A1 & A2, TNHB colony, Periyar nagar,Korattur Chennai-600080.	044 – 26250899	044 – 26242699	rvsinfo@md3.vsnl.net.in	-

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

Name	Telephone / Contact		
	Residence	Mobile	Email
V.Senthilkumar, M.Sc.Agri, Programme Coordinator i/c	-	**9443971034**	bmtkvk@gmail.com

1.4. Year of sanction:

1.5. Staff Position (as 31st March 2011)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator					-	-	-	-	-	-
2	SMS	V.Senthilkumar	Programme coordinator(i/c)	M	Plant Protection	M.Sc., Plant Protection	8000-275-13500		01.06.02	P	OBC
3	SMS	S.Manimaran	SMS Horticulture	M	Horticulture	M.Sc., Horti.,	8000-275-13500		04.03.10	P	OBC
4	SMS	C.Jaiji paul jeba singh	SMS Agri Extension	M	Agricultural Extension	M.Sc.,Agri.Extension	8000-275-13500		03.01.09	P	OBC
5	SMS	K.P. Saravanan	SMS Soil Science	M	Soil Science	M.Sc., Soil Sci.,	8000-275-13500		03.03.09	P	OBC
6	SMS	P. Sumathi	SMS Home Science	F	Home Science	M.Sc., Home Sci	8000-275-13500		02.02.09	P	OBC
7	SMS										
8	Programme Assistant(Lab Tech.)/T-4	B.Kavitha	Programme Assistant – Veterinary Science	F	Animal Science	B.V.SC	5500-175-9000		01.05.09	P	SC
9	Programme Assistant (Computer)/ T-4	A.Srinivasan	Programme Assistant – Computer Programmer	M	Computer Programmer	M.C.A.,	5500-175-9000		25.01.10	P	OBC
10	Programme Assistant/ Farm Manager	S.K. Rajasekar	Programme Assistant - Farm Manager	M	Farm Manager	B.Sc., [Agri]	5500-175-9000		01.08.01	P	OBC
11	Assistant	V. K. Seshagiri	Assistant	M	Accountant-cum-Office Superintendent	M.Sc., PGDCA	5500-175-9000		01.08.96	P	Others
12	Jr. Stenographer	S. Sharadha	Jr. Stenographer	F	Jr. Stenographer	B.Sc., DCA	4000-100-6000		01.08.96	P	Others
13	Driver	S.Natarajan	Driver	M	Driver	SSLC	3050-75-3950		01.12.02	P	OBC
14	Driver	A. John Lucas	Driver	M	Driver	SSLC	3050-75-3950		13.10.05	P	OBC
15	Supporting staff	R.Selvaraj	Supporting staff	M	Supporting staff	-	3050-75-3950		01.01.06	P	OBC
16	Supporting staff	P. Singaravelu	Supporting staff	M	Supporting staff	-	3050-75-3950		01.07.96	P	OBC

1.6. Total land with KVK (in ha) : 20 ha

S. No.	Item	Area (ha)
1	Under Buildings	1375 sqm
2.	Under Demonstration Units	2
3.	Under Crops	-
4.	Orchard/Agro-forestry	15
5.	Others	2 ha

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	25.09.1998	500	17.75	--	--	--
2.	Farmers Hostel	ICAR	11.03.2004	400	20.00	--	--	--
3.	Staff Quarters	ICAR	03.11.2001	400	18.00	--	--	--
	1	--	--	--	--	--	--	--
	2	--	--	--	--	--	--	--
	3	--	--	--	--	--	--	--
	4	--	--	--	--	--	--	--
	5	--	--	--	--	--	--	--
	6	--	--	--	--	--	--	--
4.	Demonstration Units	--	--	--	--	--	--	--
	1	--				--	--	--
	2	--				--	--	--
	3	--				--	--	--
	4	--				--	--	--
5	Fencing	--				--	--	--
6	Rain Water harvesting system	--				--	--	--
7	Threshing floor	--				--	--	--
8	Farm godown	--				--	--	--
9						--	--	--
10						--	--	--

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Force Cruiser	2009	6,00,000	18,420	Good
Kinetic Honda	2006	40,000	34,750	Good

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Television	1996	18000	Good
VCR	1996	12000	Good
OHP	1996	9250	Good
Slide Projector	1996	6500	Repair
Computer	2002	126100	Good
Typewriter (2)	1996	9850	Good
Duplicating Machine	1996	6250	Repair
Digital Camera	2005	19950	Repair
Xerox Machine	2004	75000	Repair
Ordinary Camera	2004	5000	Good

1.8. Details SAC meeting conducted in 2010-11

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	28-06-2010	14	3	* The salient achievements of the KVK & action to be taken to be focused and it should be presented in Tamil. • KVK team need to identify the felt needs of the farmers, priorities the thrust areas and work accordingly. • KVK activities viz trainings/Demonstration in villages and utilize the mass media viz Newspaper, AIR etc. effectively for wide publicity. • Popularize the Mechanized paddy cultivation which is the need of the day for agricultural sustainability. CoRH 3 Paddy hybrid released by TNAU a superior variety, could also be taken up in large scale by the farmers for higher yield. • Demonstration to be conducted and feed back information to be collected and sent to Research Institute for success of the technology. • In Blackgram, YMV which is noticed widely even in tolerant varieties& high yielding varieties could be effectively controlled by adopting PP measures properly and timely, he also suggested that the KVK should show the visibility, through wide publicity. • Organized More off campus trainings and also a branch office could be established in the town area for more vicinity and access to the farming community. • KVK to start a Branch office in the town area for benefiting more farmers. He suggested that in paddy Co-43, due to severe false smut infestation, the scientific committee after inspection, suggested to avoid Co-43 planting during this season. He suggested that KVK could take up demonstration for effective control of the false smut disease in paddy. • Blackgram, YMV infestation found severe in heavy clay soil and ADT – 5 more susceptible during summer and T-9 somewhat tolerable to YMV. Suggestions to take up trial for effective management of the disease. • Incubation centre is available at IICPT which could be utilized by the farmers on hiring basis for processing the produce/commodity and then marketing of the produce, using the technical support of IICPT. • To focus the activities in villages by developing a technocrat / village. One rural youth / village for effective reach of the technology and visibility of the KVK.	

PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1.	Paddy – Paddy – Pulses / Cotton
2.	Paddy – Paddy – Pulses – Gingelly / Sunflower / Maize
3.	Coconut
4.	Groundnut – Maize / Sunflower (Rain fed farming)
5.	Paddy – Sugarcane

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

S. No	Agro-climatic Zone	Characteristics
1.	Sub zone IV– Cauvery Delta Zone Agriculture -70%cauvery river water dependant	

S. No	Agro ecological situation	Characteristics
1	Hot sub-humid to hot semi-arid ecosystem [Coastal ecosystem (10%) & semi-arid ecosystem (90%)] Eastern Ghats crop growing period-90 to 120 days Eastern coastal plain crop growing period-90 to 210 days	Tropical crops& seasonal sub tropical crops grown

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Sandy Clay Loam	Moderately well drained, fine loamy, friable slightly sticky and non plastic, few fine tubular random pores, dark brown colour, pH 6.8 to 7.5	1, 01,561
2	Sandy loam	Moderately well to poorly drained, fine loamy, calcareous, alkaline, grayish brown, friable non sticky and non plastic, common medium pores, pH 5.8 to 9.0	1, 30,772
3	Clay	Poorly drained, fine calcareous, very deep, strong coarse subangular blocky, very hard firm very sticky and plastic, Greyish brown colour, pH 7.4 to 7.8	51,449
4	Loamy sand	Well Drained , fine loamy , very deep, no calcareous, structureless, single grained, loose very friable nonsticky and nonplastic, clear smooth boundary, strong coarse sub angular blocky, common very fine tubular pores, pH 6.2 to 7.8	38,469

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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1	Paddy	188507	542900	2,880
2	Pulses	33587	6381	190
3	Cotton	1395	1413	1.88 Bales
4	Groundnut	10757	19685	1,830
5	Sugarcane	10101	112727	11,160
6	Maize	1000	2670	2,670
7	Coconut	24772	2241 (lakh nuts)	9625 (nuts/ha)
8	Banana	3313	101908	30,760
9	Mango	796	3952	4,960
10	Brinjal	300	2247	7,490
11	Cashew	3070	616	200
12	Oil Palm	296	1172	3,950

* Please provide latest data from authorized sources. Please quote the source

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
April 2010		Maximum	Minimum	
May 2010				
June 2010				
July 2010				
Aug 2010				
Sep 2010				
Oct 2010	189	32	27.5	75
Nov 2010	566	31.5	27	80
Dec 2010	66	30	27	85
Jan 2011	-	30	26	80
Feb 2011	12	31	26.5	80
Mar 2011	16	34.5	28	75

* Please provide latest data from authorized sources. Please quote the source

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

Category	Population	Production	Productivity
Cattle	**4,89,693**		
Crossbred	*Crossbreed*	*Crossbreed*	*Crossbreed*
Indigenous	*Indigenous*	*Indigenous*	*Indigenous*
Buffalo	**Buffalo 34476**	**Buffalo**	**Buffalo**
Sheep	**42123**		
Crossbred	Crossbred	Crossbred	Crossbred
Indigenous	*Indigenous*	*Indigenous*	*Indigenous*
Goats	**Goats 339807**	**Goats**	**Goats**
Pigs	**Pigs**	**Pigs**	**Pigs**
Crossbred	*Crossbred*	*Crossbred*	*Crossbred*
Indigenous	*Indigenous*	*Indigenous*	*Indigenous*
Rabbits	**Rabbits**	**Rabbits**	**Rabbits**
Poultry	**1260564**		
Hens	Hens	Hens	Hens
Desi	*Desi*	*Desi*	*Desi*
Improved	*Improved*	*Improved*	*Improved*
Ducks	Ducks	Ducks	Ducks
Turkey and others	7458	4000 kg /year	15 kg / Unit

Category	Area	Production	Productivity
Fish	45 KM	22650 / tonnes	503.33 / KM
Marine	1250 Ha	4176 / tonnes	3.34 tonnes/ Ha
Inland	-	-	-
Prawn	-	-	-
Scampi	59.89 Ha	50.88 MT	2123.89 / Acre
Shrimp			

* Please provide latest data from authorized sources. Please quote the source

2.7 District profile has been prepared and submitted Yes / No: Yes

2.8 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Thanjavur	Budhalur,Thanjavur	Usilampatti, Chidambarapatti, Manayeripatti,Vittalapuram, Avarampatti, Pudhu arkadu, Kuruvadipatti, Thirumalaisamuthiram,Pudhuchathiram.	2 to 7 years	Paddy, , groundnut, Sugarcane, Blackgram, rice fallow pulses, gingelly. banana, Dairy and poultry farming.	* Non adoption of new SRI techniques in paddy. *Pest&Disease infestation in paddy(False smut) *Low yield in Groundnut due to Unscientific cultivation. *yield loss in pulses/groundnut due to moisture stress during critical stages of the crop. *Weed problems in rice and labour shortages for agricultural activities.	*Adoption of ICM Techniquesof crops cultivated for yield maximization. *Integrated Pest Management. *Farm mechanization. *Micro irrigation. *Integrated Pest and Disease Management in sheeps and Goat.
2	Thiruvaiyaru	Thiruvaiyaru	Maharajapuram, vilangudi, Ammanpettai, Varagur Senthalai.	2 to 7 years	Paddy, gingelly, rice fallow pulse, sugarcane. Banana, vegetables and coconut. Dairy, turkey and poultry farming.	* Weed problems in paddy. * Low productivity due to unscientific cultivation. *Labour scarcity for agricultural activities.	*Adoption of ICM Techniquesof crops cultivated for yield maximization. *Mechanised weed management in paddy.
3	Orathanadu	Orathanadu	adhanakottai, Thekkoor, Pinnayur, Kovilur, Sozhapuram, Poyyundarkottai, vandayar irrupu,	2 to 7 years	Paddy, rice fallow pulse, Irrigated blackgram,Banana, sugarcane, oil palm, sunflower groundnut. Coconut, Dairying and poultry, Inland fish farming.	*One season loss due to late receipt of Cauvery water. *Unscientific cultivation of banana and other crops leading to poor yield. *Mealybug infestation in vegetable crops. *Inland fisheries with carp varieties only fetching less income.	*Alternate cropping, *Adoption of ICM Techniquesof crops cultivated for yield maximization. *Integrated Pest Management. *Inland fisheries development, *Entreprenurial development for women groups in rural areas.
4	Papanasam	Papanasam	Illupukorrai, Veeramangudi, Ragunathapuram, Narasimmapuram, Pasupathikovil.	2 to 7 years	Paddy, rice fallow pulse, sugarcane, cotton, oil palm, groundnut and Coconut, banana Dairy, and poultry.	*Algal growth in paddy fields is severe problem leading to reduction in yield, *Unscientific cultivation of crops leading to poor yield, *Unscientific rearing of poultry birds in backyard.	*Adoption of ICM Techniques in crops cultivated for yield maximization. *Poultry farming in backyards for additional income.
5	Pattukottai	Pattukottai	Athukottai, Mudhalcherry, Kalampatti, ottangadu.	2 to 7 years	Paddy, rice fallow pulse ,Coconut, Sugarcane, groundnut,vegetables, Dairy, and goat rearing.	*Unscientific cultivation of crops leading to poor yield *Monocropping of coconut, *Imbalanced nutrition to dairy animals leading to poor milk yield.	*Adoption of multitier cropping systems in coconut for more income. *Scientific feed and disease management in dairy animals for higher milk yield.

2.9 Priority thrust areas

S. No	Thrust area
	• Alternate cropping • Dry land Agri. & Horticulture • Adoption of HYVs the Agri & Horti. crops • Organic farming • Integrated Pest management • Integrated Nutrient management • Women empowerment through income generating activities in agri.& allied enterprises. • Scientific feed & disease management of Dairy animals. • Farm Mechanization.

PART III - TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
7	6	45	35	14	12	200	165

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
On campus – 20	13	700	458				
				53	50	1035	1000
Off campus - 25	19	800	694				
Seed Production (Qtl.)				Planting materials (Nos.)			
5				6			
Target		Achievement		Target		Achievement	
--		-		119200		94620	

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

3.B1. Abstract of interventions undertaken based on thrust areas identified for the district as given in Sl.No.2.7

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
		Paddy	**Weed problem in paddy**	Integrated weed management for direct sown wet seeded rice		**1**			**1**					
		Paddy	**Algal Problem in low land rice.**		Integrated algal management in rice eco system	**1**	**1**		**3**					
		Paddy	**Cono weeding problem in SRI**	Assessing different weeders in SRI		**1**		**1**	**2**					
		Paddy	**Labour Scarcity for agriculture activity**		Mechanization in Rice	**1**	**1**	**1**	**3**					
		Paddy	**Low productivity**		Popularization of CORH 3 Hybrid Rice under SRI	**nill**								
		Paddy	**Falsesmut problem in Co-43 during Samba,Thaladi**		False smut disease management in Paddy	**1**	**1**	**1**	**3**					
					Popularization of mobile sprinkler in rice fallow pulses and oil seeds	**1**	**1**		**2**					
		Blackgram	**Low Productivity**		IPM&INM	**1**			**3**					

		fodder	**Lack of availability of green fodders.**		Popularization of fodder bank at village level	**1**	**1**		**2**					
		Fish	**Low productivity**	Polyculture in inland fisheries in Delta region using stunted finger lings		**1**	**1**		**2**					
		Livestock	**Low productivity**	Area Specific Mineral Mixture for Dairy cows.		**1**			**1**					
		Livestock	**Pest and disease problems**		IPDM in Goat and sheep	**1**								
		coconut	**Low Productivity per unit area**		Popularization of multitier cropping system in coconut	**1**								
		Banana	**Low productivity**		Popularization of ICM techniques	**1**	**1**		**2**					
		Poultry	**Ranikhet disease problem**	Control of Ranikhet Disease in desi chicken		**1**			**1**					
		Poultry	**Lack of adoption of additional income generating enterprises**		Popularization of backyard poultry	**1**	**1**		**2**					
		Red Gram	**Late release of Cauvery Water during Kuruvai Season delay the Paddy Planting or failure of the Season.**	Assessing the performance of different Red Gram varieties as pure crop.		**1**	**1**		**1**					
		Bhendi	**Mealybug infestation during summer.**	Management of mealybug in Bhendi.		**1**			**1**					
		onion	**Lack of cultivation of improved varieties.**		Popularization of seed onion Co-5	**1**			**1**					
		Groundnut	**Low Production.**		Integrated Crop Management in Groundnut	**1**			**2**					
		sunflower	**Low productivity**		Integrated Crop Management in sunflower	**nill**								

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No.of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1.	Integrated weed management for direct sown wet seeded rice	TNAU	Paddy	1			
2.	Assessing different weeders in SRI	TNAU	Paddy	1			
3.	Polyculture in inland fisheries in Delta region using stunted finger lings	NFDB	Inland Fisheries	1			
4.	Area Specific Mineral Mixture for Dairy cows.	TANUVAS	Dairy	1			
5.	Control of Ranikhet Disease in desi chicken	TANUVAS	Poultry	1			

6.	Assessing the performance of different Red Gram varieties as pure crop.	**TNAU**	**Red Gram**	**1**			
7.	Management of mealybug in Bhendi**.**	**TNAU**	**Bhendi**	**1**			
8.	Integrated algal management in rice eco system	**TNAU**	**PADDY**		**1**		
9.	Mechanization in Rice	**TNAU**	**PADDY**		**1**		
10.							
11.	False smut disease management in Paddy	**TNAU**	**PADDY**		**1**		
12.	Popularization of mobile sprinkler in rice fallow pulses and oil seeds	**TNAU**	**PULSES**		**1**		
13.	IPM&INM	**TNAU**	**PULSES**		**1**		
14.	Popularization of fodder bank at village level	**TANUVAS**	**FODDER**		**1**		
15.	IPDM in Goat and sheep	**TANUVAS**	**GOAT**		**1**		
16.	Popularization of Multitier cropping system in coconut	**TNAU**	**COCONUT**		**1**		
17.	Popularization of ICM techniques	**TNAU**	**BANANA**		**1**		
18.	Popularization of backyard poultry	**TANUVAS**	**POULTRY**		**1**		
19.	Popularization of seed onion Co-5	**TNAU**	**ONION**		**1**		
20.	Integrated Crop Management in Groundnut	**TNAU**	**GROUNDNUT**		**1**		
21.							

3.B2 contd..

No. of farmers covered															
OFT				**FLD**				**Training**				**Others (Specify)**			
General		**SC/ST**		**General**		**SC/ST**		**General**		**SC/ST**		**General**		**SC/ST**	
M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**
9	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**

PART IV - On Farm Trial

4.A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation			1							1
Integrated Pest Management					1					1
Integrated Crop Management										
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management	1									1
Resource Conservation Technology										
Farm Machineries	1									1
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total										4

4.A2. Abstract on the number of technologies refined in respect of crops

4.A3. Abstract on the number of technologies assessed in respect of livestock enterprises

Thematic areas	**Cattle**	**Poultry**	**Piggery**	**Rabbitry**	**Fisheries**	**TOTAL**
Evaluation of Breeds					1	1
Nutrition Management	1					1
Disease of Management		1				1
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating enterprises						
TOTAL						3

4.A4. Abstract on the number of technologies refined in respect of livestock enterprises

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	**Crop**	**Name of the technology assessed**	**No. of trials**	**Number of farmers**	**Area in ha**
Integrated Nutrient Management					
Varietal Evaluation	Red Gram	Assessing the performance of different Red Gram varieties as pure crop.	5	5	1
Integrated Pest Management	Bhendi.	Management of mealybug in Bhendi.	5	5	1
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management	Paddy	Integrated weed management for direct sown wet seeded rice	5	5	1

Resource Conservation Technology					
Farm Machineries	Paddy	Assessing different weeders in SRI	5	5	1
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total					

4.B.2. Technologies Refined under various Crops

4.B.3. Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management	Cow	Area Specific Mineral Mixture for Dairy cows	10	10
Disease management	Poultry	Control of Ranikhet Disease in desi chicken	50	50
Value addition	Fish	Polyculture in inland fisheries in Delta region using stunted finger lings	5	5
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total			65	65

4.B.4. Technologies Refined under Livestock and other enterprises
NIL

4.C1. Results of Technologies Assessed

Results of On Farm Trial

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy	Irrigated	weed occurance is more In direct sown wet seeded rice cultivation	Integrated weed management for direct sown wet seeded rice	5	Integrated weed management for direct sown wet seeded rice	1.Weed population/m^2, 2. No. of productive tillers/hill 3.No. of panicles/tiller 4.No. of grains/panicle 5.Yield/ha	T1-45 36 32 70 4.7t/ha T2-30 41 35 75 5.3t/ha T3 -15 45 38 85 5.9t/ha	Technology option 3 has performed well in the farmer field.	Farmers felt the importance of proper management practice recommended by the kvk		
Paddy	irrigated	Manual cono weeding in Cauvery delta is very difficult	Assessing different weeders in SRI	5	Assessing different weeders in SRI	1.Weed population/m^2 2.man hrs for weeding 3..No. of panicles/tiller 4.No. of grains/panicle 5.Yield/ha	T1-42 162 36 32 70 4.2t/ha T2-30 78 41 35 75 5t/ha T3 -25 60 45 38 85 5.4t/ha T4 -15 50 45 38 85 5.7t/ha	Technology option 4 has performed well in the farmer field.			

Fish	irrigated	In Thanjavur district, Inland fisheries being adopted with carp varieties only, which fetches less income.	Polyculture in inland fisheries in Delta region using stunted finger lings		Polyculture in inland fisheries in Delta region using stunted finger lings	Feed utilization efficiency, Growth of fish, Fish yield, B:C ratio	IN PROGRESS				
Livestock		Unscientific nutritional management to dairy animals leads to poor milk yield.	Area Specific Mineral Mixture for Dairy cows		Area Specific Mineral Mixture for Dairy cows	Milk yield Onset of first estrum after calving No. of inseminations required for conception	IN PROGRESS				
Poultry		Vaccination in desi chickens is not being practiced and ultimately result to loss.	Control of Ranikhet Disease in desi chicken		Control of Ranikhet Disease in desi chicken	Control of Ranikhet Disease in desi chicken	NILL				
Red Gram	irrigated	Due to late receipt of Cauvery water during kuruvai season, result to loss of one crop. Hence alternate crop with low water requirement and short duration is required.	Assessing the performance of different Red Gram varieties as pure crop.	5	Assessing the performance of different Red Gram varieties as pure crop.	Yield/ha .	**T1-** **0.875tonnes/ha** **T2-** **0.84tonnes/ha** **T3-** **0.86tonnes/ha**	Technology option 1 has performed well in the farmer field.			
Bhendi	irrigated	Mealybug infestation is found severe in vegetable crops cultivated during summer periods.	Management of mealybug in Bhendi.	5	Management of mealybug in Bhendi.	Pest incidence no of fruits /plant, yield	**T1- 35%** **12** **10.5tonnes/ha** **T2-25%** **14** **12tonnes/ha** **T3-20%** **18** **13.5tonnes/ha**	Technology option 3 has performed well in the farmer field.			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Paddy					
Technology option 1 (Farmer's practice) Hand weeding (FP)		4.7ton/ha	4.7ton/ha	Rs.16,150	1:1.57
Technology option 2 Pretilachlor + Safener (Sofit) @ 0.45 kg/ha on 3-4 DAS and one hand weeding on 40 DAS	TNAU	5.3ton/ha	5.3ton/ha	Rs.20,350	1:1.68
Technology option 3 Pre emergence Pretilachlor @ 0.45 kg/ha on 3 DAS fb Azimsulfuron 50 DF 35 g/ha on 20 DAS + hand weeding on 45 DAS	TNAU	5.9ton/ha	5.9ton/ha	Rs.25,050	1:1.8
Paddy					
Technology option 1 (Farmer's practice) Hand weeding (FP)		4.2ton/ha	4.2ton/ha	Rs.14432	1:1.2
Technology option 2 Cono weeder	TNAU	5ton/ha	5ton/ha	Rs.17181	1:1.5
Technology option 3 TNAU Power weeder	TNAU	5.4ton/ha	5.4ton/ha	Rs.18554	1:1.7
Technology option 4 Modified power weeder 1row	KVK, Madurai	5.7ton/ha	5.7ton/ha	Rs.19587	1:1.9
Fish					
Technology option 1 (Farmer's practice)		4ton/ha	4ton/ha	Rs.60000	1:2.1
Technology option 2 Stunted Fingerlings of Fresh water fish Carp varieties (composite fish culture) @ 2500/ac	NFDB	6ton/ha	6ton/ha	Rs.90000	1.3.4
Technology option 3 Stunted Fingerlings of Carp varieties with fresh water Prawn (Macrobrackium spp) (Poly fish culture) @ 2500+2500/ac	NFDF				
LiveStock					
Technology option 1 (Farmer's practice) **Farmers practice (No/irregular mineral supplementation)**		1200lit/cow/year	1200lit/cow/year	Rs70000	1:3
Technology option 2 Mineral Mixture 30-50 g/day continuously for one year from the day after calving	TANUVAS	1600lit/cow/year	1600lit/cow/year	Rs100000	1:4
Technology option 3 Area specific Mineral Mixture 30-50 g/day continuously for one year from the day after calving	TANUVAS	1700lit/cow/year	1700lit/cow/year	Rs110000	1:4.2
Poultry					
Technology option 1 (Farmer's practice) No vaccination or vaccination at 8th to 10th RDVK vaccine at vetinary despensaries		not implemented			
Technology option 2 1.Lasota vaccine-eye drops-7th and 14th day 2.RDVK-Subcutaneous 8th and 16th week	TANUVAS				
Technology option 3 1.Oral pellet ranikhet vaccine on the 7th to 14th day 2.RDVK- Subcutaneous 8th and 16th week.	TANUVAS				
Red Gram					
Technology option 1 (Farmer's practice)	TNAU	**T1-**	**T1-**	RS.21000	1:2.5

APK-1		**0.875tonnes/ha**	**0.875tonnes/ha**		
Technology option 2 CoRG-7	TNAU	**T2-** **0.84tonnes/ha**	**T2-** **0.84tonnes/ha**	RS.18000	1:2.1
Technology option 3 VBN-3	TNAU	**T3-** **0.86tonnes/ha**	**T3-** **0.86tonnes/ha**	RS.20000	1:2.4
Bhendi					
Technology option 1 (Farmer's practice) Spraying any systemic insecticides at fortnightly intervals		**T1- 10.5tonnes/ha**	**T1- 10.5tonnes/ha**	Rs.25875	1:1.8
Technology option 2 Spraying of profenofos at 0.2 % + acephate at 0.1 % at fortnightly intervals	TNAU	**T2-** **12tonnes/ha**	**T2-** **12tonnes/ha**	Rs.28865	1:2
Technology option 3 Use of Bio control agents and neem seed NSKE at 0.5 %	TNAU	**T3-** **13.5tonnes/ha**	**T3-** **13.5tonnes/ha**	Rs.32875	1:2.2

4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

Table 1

1 Title of Technology Assessed	Integrated weed management for direct sown wet seeded rice
2 Problem Definition	weed occurrences is more In direct sown wet seeded rice cultivation
3 Details of technologies selected for assessment/refinement	Hand weeding (FP), Pretilachlor + Safener (Sofit) @ 0.45 kg/ha on 3-4 DAS and one hand weeding on 40 DAS, Pre emergence Pretilachlor @ 0.45 kg/ha on 3 DAS fb Azimsulfuron 50 DF 35 g/ha on 20 DAS + hand weeding on 45 DAS.
4 Source of technology	TNAU
5 Production system and thematic area	Irrigated and Weed Management
6 Performance of the Technology with performance indicators	Technology option 3 has performed well in the farmer field when comparing to control(farmers practice) with increase yield 5.9t/hac and farmers practice 4.7t/ha,weed infestation were effectively controlled in T3 < 15%
7 Final recommendation for micro level situation	
8 Constraints identified and feedback for research	**Nil**
9 Process of farmers participation and their reaction	Satisfactory

Table 2

1 Title of Technology Assessed	Assessing different weeders in SRI
2 Problem Definition	Manual cono weeding in Cauvery delta is very difficult
3 Details of technologies selected for assessment/refinement	Hand weeding(FP), Cono weeder, TNAU Power weeder, Modified power weeder 1row.

4 Source of technology	TNAU
5 Production system and thematic area	Irrigated/and Weed management
6 Performance of the Technology with performance indicators	T4 performed well with reduction in labour and time saving (50 man hrs) and farmers practice (162 man hrs)
7 Final recommendation for micro level situation	
8 Constraints identified and feedback for research	**Nill**
9 Process of farmers participation and their reaction	Satisfactory

Table 3

1 Title of Technology Assessed	Polyculture in inland fisheries in Delta region using stunted finger lings
2 Problem Definition	In Thanjavur district, Inland fisheries being adopted with carp varieties only, which fetches less income.
3 Details of technologies selected for assessment/refinement	Stunted Fingerlings of Fresh water fish Carp varieties (composite fish culture) @ 2500/ac, Stunted Fingerlings of Carp varieties with fresh water Prawn (Macrobrackium spp) (Poly fish culture) @ 2500+2500/ac
4 Source of technology	TNAU
5 Production system and thematic area	Irrigated and inland fishery development
6 Performance of the Technology with performance indicators	In progress
7 Final recommendation for micro level situation	
8 Constraints identified and feedback for research	**Nil**
9 Process of farmers participation and their reaction	Satisfactory

Table 4

1 Title of Technology Assessed	Area Specific Mineral Mixture for Dairy cows
2 Problem Definition	Unscientific nutritional management to dairy animals leads to poor milk yield.
3 Details of technologies selected for assessment/refinement	Farmers practice (No/irregular mineral supplementation), Mineral Mixture 30-50 g/day continuously for one year from the day after calving, Area specific Mineral Mixture30-50 g/day continuously for one year from the day after calving
4 Source of technology	TNAU
5 Production system and thematic area	Dairy Development
6 Performance of the Technology with performance indicators	In progress
7 Final recommendation for micro level situation	
8 Constraints identified and feedback for research	Nil
9 Process of farmers participation and their reaction	Satisfactory

Table 5

1 Title of Technology Assessed	Control of Ranikhet Disease in desi chicken

2 Problem Definition	Vaccination in desi chickens is not being practiced and ultimately result to loss.
3 Details of technologies selected for assessment/refinement	No vaccination or vaccination at 8th to 10th RDVK vaccine at vetinary despensaries, 1.Lasota vaccine-eye drops-7th and 14th day,2.RDVK-Subcutaneous 8th and 16th week, 1.Oral pellet ranikhet vaccine on the 7th to 14th day2.RDVK-Subcutaneous 8th and 16th week.
4 Source of technology	TNAU
5 Production system and thematic area	Backyard and Poultry Disease Management
6 Performance of the Technology with performance indicators	
7 Final recommendation for micro level situation	
8 Constraints identified and feedback for research	**Nil**
9 Process of farmers participation and their reaction	nil

Table 6

1 Title of Technology Assessed	Assessing the performance of different Red Gram varieties as pure crop
2 Problem Definition	Due to late receipt of Cauvery water during kuruvai season, result to loss of one crop. Hence alternate crop with low water requirement and short duration is required.
3 Details of technologies selected for assessment/refinement	APK-1, CoRG-7, VBN-3
4 Source of technology	TNAU
5 Production system and thematic area	Irrigated/and alternate cropping
6 Performance of the Technology with performance indicators	Technology option 1 APK-1, has performed well in the farmer field. yield 0.875tonnes/ha
7 Final recommendation for micro level situation	Timely seed availability at Microlevel could definitely be benefited by the farmers
8 Constraints identified and feedback for research	Nil
9 Process of farmers participation and their reaction	Satisfactory

Table 7

1 Title of Technology Assessed	Management of mealybug in Bhendi**.**
2 Problem Definition	**Mealybug infestation is found severe in vegetable crops cultivated during summer periods.**
3 Details of technologies selected for assessment/refinement	Spraying any systemic insecticides at fortnightly intervals, Spraying of profenofos at 0.2 % + acephate at 0.1 % at fortnightly intervals, Use of Bio control agents and neem seed NSKE at 0.5 %
4 Source of technology	TNAU

5 Production system and thematic area	Irrigated and integrated pest management
6 Performance of the Technology with performance indicators	Technology option 3 has performed well in the farmer field, pest infestation is 20% where as compare to T1 35%
7 Final recommendation for micro level situation	
8 Constraints identified and feedback for research	**Nil**
9 Process of farmers participation and their reaction	Satisfactory
7 Final recommendation for micro level situation	Use of bio control agent for pest management is eco friendly cheaper and effective & could be easily followed.
8 Constraints identified and feedback for research	Nil
9 Process of farmers participation and their reaction	Satisfactory
7 Final recommendation for micro level situation	Use of bio control agent for pest management is eco friendly cheaper and effective ,could be easily followed
8 Constraints identified and feedback for research	Nil
9 Process of farmers participation and their reaction	Satisfactory

4.D1. Results of Technologies Refined

Nil

4.D.2. Details of each On Farm Trial for refinement to be furnished in the following format separately as per the proforma below

Nil

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented during 2010-11

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Oilseeds	irrigated	Rabi Summer	Sunflower			ICM techniques	Integrated Crop Management in sunflower	Not implemented					
		Irrigated	Kharif	Groundnut	VRI-2		ICM techniques	Popularisation of ICM techniques						
		Irrigated	Rabi Summer	Sesamum	VRI-2		ICM techniques	Popularisation of ICM techniques						
	Pulses	Irrigated	Rabi Summer	Black gram	VBN-4		Yield maximization	Popularization of mobile sprinkler in rice fallow pulses and oil seeds	5	5	3	12	15	
		Irrigated	Rabi Summer	Green gram	VBN-3		ICM techniques	Popularization of high yielding variety VBN 3						
	Cereals													
	Paddy	Irrigated	Kuruvai 2010-11	Paddy	ADT-36		Yield maximisation	Integrated algal management in rice eco system	5	5	4	6	10	

	Paddy	Irrigated	Samba 2010-11	Paddy	CO-43		Yield maximisation	Mechanization in Rice	2	2	2	3	5	
	Paddy	Irrigated	Summer Paddy 2010-11	Paddy	CoRH-3		Yield maximisation	Popularization of paddy Hybrid CoRH-3	5	5				Not implemented / non availability of seeds.
	Fruit Banana	Irrigated		Banana	poovan		Yield maximisation	Popularization of ICM techniques	2	2	5	15	20	
	coconut	Irrigated		Multitier cropping (Black pepper, Banana, Elephant foot Yam)			Yield maximisation	Popularization of multitier cropping system in coconut	5	2	5	5		
	Spices and condiments													
	Commercial													
	Medicinal and aromatic													
	Fodder	Irrigated	Rabi summer2010-11	CO(CO(CN) 4 - 20000slips / ha CN) 4 - 20000slips / ha Guinea grass – 25000 slips/ha Desmanthus @ 7.5kg/ha Subabul seedlings@250/ha			fodder bank	Popularization of fodder bank at village level	5	5	5	15	20	
	Plantation													
	Fibre													
	Dairy													
	Poultry	Homestead	Rabi summer-2011	Backyard poultry	Nandhanam broilers	-	Popularisation of breeds	Popularisation of Nandhanam broilers in Homestead.	10	10	4	6	10	
	Rabbitry													
	Pigerry													
	Sheep and goat	Open grazing	Rabi-2010	Sheep and goat	Ramnad white and kanni black goats	-	Pest and disease management.	Integrated pest and disease management of sheep and goats.			9	6	15	
	Duckery													
	Common carps													
	Mussels													
	Ornamental													

	fishes													
	Oyster mushroom													
	Button mushroom													
	Vermicompost													
	Sericulture													
	Apiculture													
	Implements													
	Others (specify)													

5.A. 1. Soil fertility status of FLDs plots during 2010-11

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
	oilseeds	irrigated	Rabi Summer	Sunflower			ICM techniques	Integrated Crop Management in sunflower		-	-	-	
		Irrigated	Kharif	Groundnut	VRI-2		ICM techniques	Popularisation of ICM techniques		52	62	75	
		Irrigated	Rabi Summer	Sesamum	VRI-2		ICM techniques	Popularisation of ICM techniques		54	68	72	
	pulses	Irrigated	Rabi Summer	Black gram	VBN-4		Yield maximisation	Popularization of mobile sprinkler in rice fallow pulses and oil seeds		48	56	79	Paddy
	Paddy	Irrigated	Thalidi 2009-10	Paddy	ADT-39		Yield maximisation	Integrated algal management in rice eco system		48	58	110	Paddy
		Irrigated	Kuruvai 2009-10	Paddy	ADT-36		Yield maximisation	Mechanization in Rice		50	103	125	Paddy
			Late samba2009-10	Paddy	CO-43		disease management	False smut disease management in Paddy		51	121	110	Paddy
	Vegetables	Irrigated	Rabi summer2009-10	Onion	C0-5		Alternate cropping	Popularization of seed onion C0-5		61	151	110	Paddy
	Fruit	Irrigated	Kharif	Banana	poovan		Yield maximisation	Popularization of ICM techniques		55	68	124	Ground nut
	Poultry												
	Plantation	irrigated	Rabisummer	coconut	Multitier cropping (Blackpepper,Bannana, Elephant foot Yam)		Multitier cropping	Popularization of multitier cropping system in coconut		58	48	123	vegetables

5.B. Results of Frontline Demonstrations

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds 1.Groundnut	Integrated Crop Management in Groundnut	VRI-2	-	Irrigated	10	5	18.8	18.04	18.45	16.35	12.85%	Rs.20,500	Rs.46,125	Rs.25,625	1:2.28	Rs.19,400	Rs.40,875	Rs.15,500	1:2.1
2.Sunflower	Integrated Crop Management in sunflower	Not Implemented																	
3.Sesame	Integrated Crop Management in VRI-2	VRI-2		Irrigated	15	5	7.15	6.65	7	6.1	14.75	11000	28,000	17,000	1:2.54	10000	24,400	14,400	1:2.4
4.Pulses	Popularization of mobile sprinkler in rice fallow pulses and oil seeds	Popularization of mobile sprinklers for irrigation during critical stages of the crop		Rice Fallow blackgram	15	5	9.5	7.5	8.2	6.5	26.15	14,000	36,900	22,900	1:2.98	9000	26000	17000	2.8
5.Blackgram	IPM&INM	VBN-4		Rice Fallow	15	5	9.5	8.5	8.0	6.3	26.98	11500	33800	22300	1:3.02	10000	27000	18000	2.9
6Paddy	False smut disease management in Paddy	CO-43	-	Irrigated	12	5	54	47	50	45	11.1	32,000	48,500	16,500	1:1.5	33,500	43,500	10,000	1:1.29
7.Paddy	Integrated algal management in rice eco system	ADT-39		Irrigated	10	5	52	45	48	42	14.28	32,750	50,400	17,650	1:1.53	32,000	44,100	12,100	1:1.37
8.Paddy	Popularization of CORH 3 Hybrid Rice under SRI	CORH-3		Irrigated	10	5	Not implemented												
Millets																			
Vegetables 9..onion	Popularization of seed onion Co-5	Co-5	-	Irrigated	10	2	142	125	135	110	22.72	42,500	1,3500	92,500	1:3.17	38,000	1,10,000	72,000	1:2.89
Flowers																			
Ornamental																			

10..Bananna	Popularization of ICM techniques	Poovan		Irrigated	20	2	750	560	670	540	24.07	72,750	2,15,000	1,42,250	1:2.95	68,500	1,70,000	1,01,500	1:2.48
Spices and condiments																			
Commercial																			
Medicinal and aromatic																			
12..Fodder	Popularization of fodder bank at village level	Co(CN)-4 Guinea grass, Desmanthus, Subabul seedlings		Irrigated	5	1	In Progress												
Fruit 13..coconut	Popularization of multitier cropping system in coconut	Black pepper, Banana, Elephant foot yam,		Irrigated	5	2	**in progress**												
Fibre																			
Others (pl.specify)																			

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

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
1.Groundnut 1.No. of pods/plant 2. % Weed incidence 3. % Pest incidence 4. % disease incidence	 **34** **<20%** **15%** **15%**	 **26** **20-25%** **20%** **20%**
2.sunflower	**not implemented**	
3.sesamum 1.No. of capsule/plant 2. % Weed incidence 3. % Pest incidence 4. % disease incidence	 **90** **20%** **15%** **15%**	 **80** **22** **20%** **25%**
4.Blackgram-VBN-4 1.No. of pods/plant 2. % Weed incidence 3. % Pest incidence 4. % disease incidence	 **43** **15** **15** **10**	 **35** **20** **20** **15**

6.Paddy. False smut disease management in Paddy-co43 1.No. of productive tillers/hill 2.No. of panicles/tiller 3. % Weed incidence 4. % Pest incidence 5. % disease incidence	 24 24 <20 20% 20%	 16 16 20 23 25
Cereals		
. 7.(Paddy) Integrated algal management in rice eco systemADT-39 1.No. of productive tillers/hill 2.No. of panicles/tiller 3. % Weed incidence 4. % Pest incidence 5. % disease incidence	 22 22 20 20 15	 16 16 25 20 20
8. Popularization of CORH 3 Hybrid Rice under SRI	not implemented	
9.onion C0-5 1.No. of bulbs/plant 2.weight of bulbs 3. % Weed incidence 4. % Pest incidence 5. % disease incidence	 10 15 gms 21% 12% 19%	 7 10 gms 21% 19% 25%
10.banana-ICM Techniques 1.weight of bunch in kgs 2. % Weed incidence 3. % Pest incidence 4. % disease incidence	 42kg 13% 17% 16%	 35kg 16% 25% 21%
11.fodder Popularization of fodder bank at village level Percentage of fodder availability increased (%) Percentage of yield improvement (%)	In Progress	
12..coconut-Multi-tier cropping system in coconut	**in progress**	

5.B.2. Livestock and related enterprises

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (q/ha)				%	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Dairy	IPDM in Goat and sheep	Khanni,and Ramanad white,Mecherri cross,trichyblack,	15	300													
Poultry	Popularization of backyard poultry	Nandanam broilers	10	10	In Progress												
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl.specify)																	

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

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check if any**
IPDM in Goat and sheep % reduction in diseases, Mortality rate reduction Body weight gain /Adult in Kg	**85** **90** **17**	**40** **40** **14**
Popularization of backyard poultry	In Progress	

5.B.3. Fisheries NIL

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

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

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

5.B.4. Other enterprises

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m^2}	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)				*Economics of check (Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Oyster mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl.specify)																	

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

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

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

5.B.5. Farm implements and machinery

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check			Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Mobile Sprinkler	30,000	Use of mobile sprinklers in blackgram(Rabi summer)	5	2	12	20	40	Rs.1600	13,500	33,600	20,100	1:2.48	12,000	25,400	13,400	1:2.1
1.Cage wheel for field preparation(Tractor operated) 2.Paddy transplanter (manual) 3.Cono weeder 4.Paddy harvester		Mechanisation in Paddy cultivation	5	2	27 5 26 8	35 40 75 35	35.6	Rs.7800	20,250	43,700	23,450	1:2.15	21,000	36,100	15,100	1:1.71

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

Data on additional parameters other than labour saved (viz., reduction in drudgery, time etc.)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Local**
Reduction in Drudgery	**75%**	-
Time saving	80%	-

5.B.6. Cotton

5.B.6.1.Summary of demonstrations conducted under FLD cotton

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Cereals																	
Bajra																	
Maize																	
Paddy																	
Sorghum																	
Wheat																	
Others (pl.specify)																	
Total																	
Oilseeds																	
Castor																	
Mustard																	
Safflower																	
Sesame																	
Sunflower																	
Groundnut																	
Soybean																	
Others (pl.specify)																	
Total																	
Pulses																	
Greengram																	
Blackgram																	
Bengalgram																	
Redgram																	
Others (pl.specify)																	
Total																	
Vegetable crops																	
Bottle gourd																	
Capsicum																	
Others (pl.specify)																	
Total																	
Cucumber																	
Tomato																	
Brinjal																	
Okra																	
Onion																	
Potato																	
Field bean																	
Others (pl.specify)																	
Total																	
Commercial crops																	
Sugarcane																	
Coconut																	
Others (pl.specify)																	
Total																	
Fodder crops																	
Maize (Fodder)																	
Sorghum (Fodder)																	
Others (pl.specify)																	
Total																	

H-High L-Low, A-Average

*Please ensure that the name of the hybrid is correct pertaining to the crop specified

PART VII. TRAINING

7.A.. Farmers' Training including sponsored training programmes (On campus)

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										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	5	104	24	128	-	-	-	104	24	128
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										

Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (Coconut Cultivation)	1	26	9	35	14	-	14	40	9	49
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										

g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	12	6	18	-	-	-	12	6	18
Production of quality animal products										
Others (Entrepreneurial Dept in Animal Husbandry)	1	12	18	30	-	-	-	12	18	30
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										

Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	4	30	42	72	18	28	46	48	70	118
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										

Carp fry and fingerling rearing										
Composite fish culture(Inland Aquaculture)	1	15	-	15	-	-	-	15	-	15
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										

Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**13**	**299**	**99**	**398**	**32**	**28**	**60**	**331**	**127**	**458**

7.B.. Farmers' Training including sponsored training programmes (Off campus)

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										
Weed Management										
Resource Conservation Technologies										
Cropping Systems	1	15	-	15	-	-	-	15	-	15
Crop Diversification										
Integrated Farming	1	55	-	55	20	-	20	75	-	75
Micro Irrigation/Irrigation	1	20	9	29	6	1	7	26	10	36
Seed production										
Nursery management										
Integrated Crop Management	2	35	20	55	-	-	-	35	20	55
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										

Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (IPM in Banana)	1	28	-	28	12	-	12	40	-	40
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (Multi tier Cropping System in Coconut)	1	14	6	20	-	-	-	14	6	20
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										

Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management	2	90	15	105	15	-	15	105	15	120
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products	2	32	18	50	55	12	67	87	30	117
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking	1	13	-	13	-	4	4	13	4	17

Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	4	-	82	82	-	30	30	-	112	112
Women empowerment										
Location specific drudgery production	1	-	-	-	-	20	20	-	20	-
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management(Black Gram)	1	25	-	25	-	-	-	25	-	25
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (IPM - Sesamum)	1	20	12	32	-	-	-	20	12	32
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										

Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										

Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										

TOTAL	**19**	**347**	**162**	**509**	**108**	**77**	**185**	**455**	**239**	**694**

7.C. Training for Rural Youths including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	1	11	14	25	9	6	15	20	20	40
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	1	32	-	32	16	-	16	48	-	48
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										

Ornamental fisheries										
Composite fish culture	1	32	-	32	16	-	16	48	-	48
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	3	75	14	89	41	6	47	116	20	136

7.D. Training for Rural Youths including sponsored training programmes (off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										

Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)	1	7	9	16	8	10	18	15	19	34
Total	1	7	9	16	8	10	18	15	19	34

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
Total										

7.G. Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Increasing production and productivity of crops.	**1**	**30**	**27**	**57**	**20**	**17**	**37**	**50**	**43**	**93**
1.b.	Commercial production of vegetables										
2	**Production and value addition**										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	**Soil health and fertility management**	**1**	**70**	**-**	**70**	**15**	**-**	**15**	**85**	**-**	**85**
4	**Production of Inputs at site**	**3**	**77**	**76**	**153**	**37**	**60**	**97**	**114**	**136**	**250**
5	**Methods of protective cultivation**										
6	**Others (Micro irrigation)**	**1**	**20**	**3**	**23**	**6**	**1**	**7**	**26**	**4**	**30**
7	**Post harvest technology and value addition**										
7.a.	Processing and value addition										
7.b.	Others (pl.specify)										
8	**Farm machinery**										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
10.a.	Animal Nutrition Management										
10.b.	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management	**1**	**32**	**-**	**32**	**16**	**-**	**16**	**48**	**-**	**48**
10.e.	Others (Dairy Farming)	**1**	**32**	**-**	**32**	**16**	**-**	**16**	**48**	**-**	**48**
11.	**Home Science**										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
12	**Agricultural Extension**										
12.a.	Capacity Building and Group Dynamics										
12.b.	Others (pl.specify)										
	Total	**8**	**231**	**106**	**377**	**122**	**78**	**201**	**383**	**183**	**566**

Details of sponsoring agencies involved
1. NAIP-ICAR.
2.FAI, NewDelhi.
3.Agricultural Department.
4.OXFORD Engineering College.
5. NABARD

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl.specify)										
2	**Post harvest technology and value addition**										
2.a.	Value addition										
2.b.	Others (pl.specify)										
3.	**Livestock and fisheries**										
3.a.	Dairy farming										
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl.specify)										
4.	**Income generation activities**										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery and implements										
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.	**4**	**-**	**36**	**36**	**-**	**68**	**68**	**-**	**104**	**104**
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
5	**Agricultural Extension**										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	Grand Total	**4**	**-**	**36**	**36**	**-**	**68**	**68**	**-**	**104**	**104**

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including activities of FLD programmes)

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No.of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	6	50	26	76	25	20	45	9	5	14
Kisan Mela										
Kisan Ghosthi										
Exhibition	2(agri intex and TNAU, cbe)	35	-	35	25	-	25	4	-	4
Film Show										
Method Demonstrations	15	65	70	135	32	28	60	15	5	20
Farmers Seminar										
Workshop										
Group meetings	22	140	70	210	75	45	120	36	12	48
Lectures delivered as resource persons										
Newspaper coverage	6									
Radio talks	-									
TV talks	2									
Popular articles	4									
Extension Literature	65	780	420	1200	450	200	750	45	30	75
Advisory Services	145	280	90	370	120	45	165	55	-	55
Scientific visit to farmers field	48									
Farmers visit to KVK		125	54	179	26	14	40			
Diagnostic visits	24									
Exposure visits	7									
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp	1	45	30	75	15	30	45	3	2	5
Agri mobile clinic	2	62	-	62	45	-	45	2	2	4
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	7	12	338	350	-	-	-	-	12	12
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
Any Other (Specify) College students/school students-Exposure visit	5	340	220	560	-	-	-	8	6	14
Total										

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)						
Oilseeds						
Pulses						
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others (specify)						
Total						

9.B. Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Commercial						
Vegetable seedlings						
Fruits	Mango	Alphonsa,Himampasand,Mallika,Sendura Neelum,Banganapalli,Bangalora.		20,200	6,06,000	450
	Guava	Local		590	11,800	72
	Lime	PKM-1		1,900	38,000	128
	Jamun	Seedless		400	10,000	47
	Sapota	Oval,PKM-1		850	21,250	135
	Amla	Kanchan NA-47,Krishna,Chakaiya, BSR-1		-	-	32
Ornamental plants		Duranta,Exora,Crotons,Hibiscus,Palm etc.		3180	31,800	121
Medicinal and Aromatic						
Plantation	Coconut	DXT,tall		11,000	4,40,000	250
	Cocoa	-		2000	16,000	22
Spices						
Tuber						

Fodder crop saplings						
Forest Species	Teak	Burma		5300	42400	21
	Neem	Local		5500	55,000	52
	Vilvam	-		-	-	10
	Vila	-		-	-	-0
	Sisoo	Indian Rosewood		5000	40,000	12
	Neer Maruthu	-		5000	40,000	15
	Bamboo	-		-	-	-
	Pongam	-		15,000	-	-
Others(specify)						
Total				**75,920**	**13,52,250**	**1377**

9.C. Production of Bio-Products

Bio Products	**Name of the bio-product**	**Quantity Kg**	**Value (Rs.)**	**Number of farmers to whom provided**
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others (specify)				
Total				

9.D. Production of livestock materials

Particulars of Live stock	**Name of the breed**	**Number**	**Value (Rs.)**	**Number of farmers to whom provided**
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				
Fingerlings				
Others (Pl. specify)				
Total				

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

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

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers			
Technical reports			
News letters	Velan Iyakkam		300
Technical bulletins			
Popular articles			
Extension literature	Management of Problematic soils	K.P.Saravanan	200
	Gingelly- improved production techniques	K.P.Saravanan	300
	IPM in Banana	V.Senthil kumar	200
	IPM & INM in Pulses	V.Senthil Kumar	150
	Alternate Cropping – Red Gram Cultivation techniques	V.Senthil Kumar	210
	Nurititive diet for Pre school children	P.Sumathi	300
	Preparation of Homecare products	P.Sumathi	300
	Mushroom cultivation techniques	V.Senthil kumar	300
	Onion- Production techniques	K.P.Saravanan	200
	Rodent Management techniques	V.Senthil kumar	300
	Green Fodders – Cultivation techniques	Dr.B.Kavitha	130
	Inland Fish Culture	Dr.B.Kavitha	180
	Mealybug Management techniques	V.Senthil Kumar	110
	Mechanisation in Rice	S.JaijiPaul	250
	Weed Management techniques in direct from Paddy Cultivation	V.Senthil Kumar	200
	IPM in Paddy	V.Senthil Kumar	300
	Value Addition in fruits and vegetables	P.Sumathi	**200**
	Poultry rearing additional enterprise	Dr.B.Kavitha	**300**
Others (Pl. specify)			
TOTAL			

10.B. Details of Electronic Media Produced

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

10.C. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).

The Broad outline for the case study may be

Title

Background

Interventions

Process
Technology

Impact

Horizontal Spread
Economic gains
Employment Generation

10.D. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

Nil

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

10.F. Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women
- Rural Youth
- Inservice personnel

PRA, Group meetings,Questionare method.

10.G. Field activities

i. Number of villages adopted- 25
ii. No. of farm families selected- 175
iii. No. of survey/PRA conducted- 10

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Yes
If Yes
1. Date of establishment : 20.01.2005
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1.	Electronic analytical balance	1	35000
2.	Hot air oven	1	15000
3.	Coil stove with regulator	1	1300
4.	Hot plate (S.S)	1	3300
5.	Water bath (12 holes)	1	3800
6.	Laboratory centrifuge	1	14400
7.	Multipurpose stirrer	1	3625
8.	Fin pipette fixed volume (250, 500, 1000)	3	10500
9.	Finn pipette digital autoclave variable 1.5 ml	1	8900
10.	Magnetic stirrer with hot plate	1	4500
11.	Heating mantle	1	1110
12.	Visible spectrometer	1	37370
13.	Digital Flame photometer	1	32200
14.	Conductivity meter	1	8450
15.	Microprocessor based conductivity	1	19900
16.	Eco still water double distiller	1	21500
17.	Roy balance	1	7500
18.	DM Plant 100 Lit/hr Digital conductivity	1	11000
19.	Mixer Grinder	1	3090
20.	Microprocessor based p H meter	1	21000
21.	Micro processor based eigh1t place macro block digestion system	1	63834
22.	17'' computer system.	1	60000
23	Micro kjeldhal Distillation Unit	1	4480
24.	Soil and Water Testing kit	1	15000
25.	Double Door Refrigerator	1	13900
26.	1.5 T Window AC with Stabiliser	1	19750
	Total		440409

Details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	**913**	**615**	**196**	**34825**

Water Samples	**447**	**346**	**121**	**7970**
Plant samples	_	_	_	_
Manure samples	_	_	_	_
Others (specify)	_	_	_	_
Total	**1360**	**961**	**317**	**42795**

Details of samples analyzed during the 2010-11 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	**143**	**128**	**45**	**6070**
Water Samples	**68**	**56**	**20**	**710**
Plant samples	**62**	**5**	**4**	**9300**
Manure samples				
Others (specify)				
Total	**274**	**207**	**69**	**16,080**

10.I. Technology Week celebration :NIL

Period of observing Technology Week: From to
Total number of farmers visited :
Total number of agencies involved :
Number of demonstrations visited by the farmers within KVK campus :

Other Details

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

10. J. Interventions on drought mitigation (if the KVK included in this special programme)

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

B. Major area coverage under alternate crops/varieties

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

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
Total			

D. Animal health camps organized

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

E. Seed distribution in drought hit states

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

F. Large scale adoption of resource conservation technologies

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

G. Awareness campaign

State	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												

PART XI. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)

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

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

11.C. Details of impact analysis of KVK activities carried out during the reporting period

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage

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

12.B. List special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/ No

If yes, role of KVK in preparation of SREP of the district?

Coordination activities between KVK and ATMA during 2010-11

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	**Meetings**				
02	**Research projects**				
03	**Training programmes**				
04	**Demonstrations**				
05	**Extension Programmes**				
	Kisan Mela				
	Technology Week				
	Exposure visit				
	Exhibition				
	Soil health camps				
	Animal Health Campaigns				
	Others (Pl. specify)				
06	**Publications**				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	**Other Activities** (Pl. specify)				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

12.D. Give details of programmes implemented under National Horticultural Mission

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

12.E. Nature of linkage with National Fisheries Development Board

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

12.F. Details of linkage with RKVY

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

12. G Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2010	-	-	
May	-	-	
June	26	140	
July	25	200	
August	26	230	
September	25	270	
October	25	310	
November	24	375	
December	23	400	
January 2011	20	425	
February	24	460	
March	20	510	

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

13.A. Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	

13.B. Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Pulses									
Oilseeds									
Fibers									
Spices & Plantation crops									
Coconut	Nov 1998	7 Harvest/year	4	D/T	nuts	58,000	Rs.68,000	Rs.2,05,000	
Floriculture									
Fruits 1.Mango	Nov 1998	May 2011	5	Alphonso, Banganapalli, Senthura, Rumani	Fruits	anticipated yield-25 tonnes	Rs.1,00,000	Rs.3,75,000(Expected)	
2.Guava	Nov 1998	Sep-Oct/Feb-March	1	L-49	Fruits	1750 kgs	Rs.10,000	Rs.13,500	
Vegetables									
Others (specify)									

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

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

13.D. Performance of instructional farm (livestock and fisheries production)

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

13.E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2010	15	1	
May 2010	28	1	
June 2010	25	1	
July 2010	20	1	
August 2010	28	1	
September 2010	35	1	
October 2010	20	1	
November 2010	30	1	
December 2010	40	1	
January 2011	25	1	
February 2011	40	1	
March 2011	45	1	

13.F. Database management

S. No	Database target	Database created
UNDER PROCESS		

13.G. Details on Rain Water Harvesting structure and micro-irrigation system

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	-	-	-	-	-	-	-
With KVK	Bank of India	KilluKottai	8180	BMT - KVK	818020100000007	-	BKID 0008180

14.B. Utilization of funds under FLD on Cotton *(Rs. in Lakh)*

S. No	Items / Head	Opening balance if any	Remittance by ZPD VIII Bangalore	Actual expenditure dubitable to Council A/C	Closing balance if any	Remarks
1	**Production Technology – 50 ha**					
	a. Essential inputs					
	b. POL, hiring vehicle, Kisan melas, printed materials, reports, demonstration boards					
	Total					
2.	**Farm Implements – 75 ha**					
	a. New equipments					
	b. Contingencies					
	Total					

14.C. Utilization of KVK funds during the year 2010-11 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	39.00	39.00	38,89,452.00
2	**Traveling allowances**	1.00	1.00	1,00,020.00
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2.50	2.50	2,49,785.00
B	POL, repair of vehicles, tractor and equipments	2.20	2.20	219900.00
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	1.10	1.10	107140.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.70	0.70	69645.00
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	1.95	1.95	166500.00
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.90	0.90	85325.00
G	Training of extension functionaries	0.35	0.35	34840.00
H	Maintenance of buildings	0.60	0.60	59995.00
I	Farmers Field School	0.25	0.25	24700.00
J	Library	0.05	0.05	4990.00
	TOTAL (A)	**51.00**	**51.00**	5051812.00
B. Non-Recurring Contingencies				
1	**Works**	0.00	0.00	0.00

2	**Equipments including SWTL & Furniture**	3.50	3.50	3,49,450
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	6.50	6.50	6,50,000
4	**Library** (Purchase of assets like books & journals)	0.10	0.10	9850.00
TOTAL (B)		10.10	10.10	1009300
C. REVOLVING FUND		0.00	0.00	0.00
GRAND TOTAL (A+B+C)		61.10	61.10	6061112.00

14.D. Status of revolving fund (Rs. in lakh) for the three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2008 to March 2009	8525.25	1091750	650225	450050.25*
April 2009 to March 2010	8825.25*	755066	258344	496722.00*
April 2010 to March 2011				

15. Details of HRD activities attended by KVK staff during 2010-11

Name of the staff	Designation	Title of the training Programme	Institute where attended	Dates
V.Senthil Kumar	**SMS(Plant Protectino)**	**Coconut Leaf Beetle Awareness Programme**	**NBAII, Bangalore**	**April 2010**
S.Manimaran	**SMS(Horticulture)**	**Scientific Workers Conference**	**TNAU,Coimbatore**	**25.05.10**
All Technical Staff	**All Technical Staff**	**KVK Orientation Training**	**Vamban KVK, Pudukkottai**	**29.06.10**
C.JaijiPaul	**SMS(Extension)**	**Weather Forecasting at Community Level**	**TRRI, Aduthurai**	**22.07.10 to 23.07.10**
B.Kavitha	**Animal Science**	**Goat Farming**	**Namakkal KVK**	**16.09.10**
P.Sumathi	**SMS(Home Science)**	**Gender Perspective in Agriculture**	**TANUVAS, Chennai**	**24.01.11 to 25.01.11**
P.Sumathi	**SMS(Home Science)**	**Recent Trends in Post Harvest Technology**	**IICPT, Thanjavur**	**23.03.11 to 25.03.11**
C.Jaiji Paul	**SMS(Extension)**	**Training regarding Extension activities**	**TNAU, Coimbatore**	**24.03.11 to 25.03.11**

B.Kavitha	**Animal Science**	Extension Management for Fisheries Development	**MANAGE,Hyderabad.**	**06.12.10 to 10.12.10**
A.Srinivasan	**Computer Programmer**	**Training on Database Creation**	**TNAU,Coimbatore**	**29.03.11 to 31.03.11**

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

SUMMARY FOR 2010-11

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management			
Varietal Evaluation	Red Gram	Assessing the performance of different Red Gram varieties as pure crop	5
Integrated Pest Management	Bhendi	Management of mealybug in Bhendi.	5
Integrated Crop Management			
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management	Paddy	Integrated weed management for direct sown wet seeded rice	5
Resource Conservation Technology			
Farm Machineries	Paddy	Assessing different weeders in SRI	5
Integrated Farming System			
Seed / Plant production			
Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
Total			

Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Disease Management			
Evaluation of Breeds			
Feed and Fodder management	Milch Animals	**Area Specific Mineral Mixture for Dairy cows**	10
Nutrition Management			
Production and Management			
Others (Pl. specify)	Inland Fisheries	Polyculture in inland fisheries in Delta region using stunted finger lings	5
Total			

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Summary of technologies assessed under various enterprises

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

Summary of technologies assessed under home science

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

II. TECHNOLOGY REFINEMENT

Summary of technologies assessed under refinement of various livestock

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

Summary of technologies refined under various enterprises

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

Summary of technologies refined under home science

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

III. FRONTLINE DEMONSTRATION

Cotton

Frontline demonstration on cotton

Crop	Thematic Area	Name of the technology demonstrated	No. of KVKs	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demonstration	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Sunflower	ICM techniques	Integrated Crop Management in sunflower		25	10	NOT IMPLEMENTED	NOT IMPLEMENTED	-	-	-	-	-	-	-	-	-
Groundnut	ICM techniques	Popularization of ICM techniques		25	10	18.45	16.35	12.85%	Rs.20,500	Rs.46,125	Rs.25,625	1:2.28	Rs.19,400	Rs.40,875	Rs.15,500	1:2.1
Sesamum	ICM techniques	Popularization of ICM techniques		25	10	7	6.1	14.75	11000	28,000	17,000	1:2.54	10000	24,400	14,400	1:2.4
Black gram	Yield maximization	Popularization of mobile sprinkler in rice fallow pulses and oil seeds		25	10	8.0	6.3	26.15	14,000	36,900	22,900	1:2.98	9000	26000	17000	2.8
Paddy	Yield maximisation	Integrated algal management in rice eco system		10	5	48	42	14.28	32,750	50,400	17,650	1:1.53	32,000	44,100	12,100	1:1.37
Paddy	Yield maximisation	Mechanization in Rice		5	2	-	-	-	-	-	-	-	-	-	-	-
Paddy	Yield maximisation	Popularization of paddy Hybrid CoRH-3		10	5	-	-	-	-	-	-	-	-	-	-	-
Banana	Yield maximisation	Popularization of ICM techniques		20	2	670	540	24.07	72,750	2,15,000	1,42,250	1:2.95	68,500	1,70,000	1,01,500	1:2.48
Multitier cropping (Black pepper, Banana, Elephant foot Yam)	Yield maximisation	Popularization of multitier cropping system in coconut		5	2	-	-	-	-	-	-	-	-	-	-	-
CO(CO(CN) 4 - 20000slips / ha CN) 4 - 20000slips / ha Guinea grass – 25000 slips/ha Desmanthus @ 7.5kg/ha Subabul seedlings@250/ha	fodder bank	Popularization of fodder bank at village level		5	1	-	-	-	-	-	-	-	-	-	-	-

Backyard poultry	Popularisation of breeds	Popularization of Nandhanam broilers in Homestead.		10	10	-	-	-	-	-	-	-	-	-	-	-	-
Sheep and goat	Pest and disease management.	Integrated pest and disease management of sheep and goats.		**15**	**300 animals**	-	-	-	-	-	-	-	-	-	-	-	-
Total																	

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

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals																		
Millets																		
Oilseeds																		
Pulses																		
Vegetables																		
Flowers																		
Ornamental																		
Fruit																		
Spices and condiments																		
Commercial																		
Medicinal and aromatic																		
Fodder																		
Plantation																		
Fibre																		

Others (pl.specify)																		
		Total																

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

** BCR= GROSS RETURN/GROSS COST

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	fodder bank	Popularization of fodder bank at village level		5	1	-	-											
Poultry	Popularisation of breeds	Popularization of Nandhanam broilers in Homestead.		10	10													
Rabbitry																		
Pigerry																		
Sheep and goat	Pest and disease management.	Integrated pest and disease management of sheep and goats.		**15**	**300 animals**													
Duckery																		
Others (pl.specify)																		
	Total																	

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

** BCR= GROSS RETURN/GROSS COST

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																		
Mussels																		
Ornamental fishes																		
Others (pl.specify)																		
		Total																

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

Other enterprises

Category	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl.specify)																	
	Total																

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

Women empowerment

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
Women						
Pregnant women						
Adolescent Girl						
Other women						
Children						
Neonats						
Infants						
Children						

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit ect.)			
						Demonstration	Check									
Mobile Sprinkler	Paddy	Use of mobile sprinklers in blackgram(Rabi summer)		5	2	**15**	45					30				3000
1.Cage wheel for field preparation(Tractor operated) 2.Paddy transplanter(manual) 3.Cono weeder 4.Paddy harvester	Paddy	Mechanization in Paddy cultivation		5	2	78	185									

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

Other enterprises

Demonstration details on crop hybrids

Crop	**Name of the Hybrid**	**No. of farmers**	**Area (ha)**	**Yield (kg/ha) / major parameter**			**Economics (Rs./ha)**			
				Demonst-ration	**Local check**	**% change**	**Gross Cost**	**Gross Return**	**Net Return**	**BCR**
Cereals										
Bajra										
Maize										
Rice										
Sorghum										
Wheat										
Others (pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										

Others (pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Others (pl.specify)										
Total										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (pl.specify)										
Total										
Commercial crops										
Sugarcane										
Coconut										
Others (pl.specify)										
Total										
Fodder crops										

Maize (Fodder)										
Sorghum (Fodder)										
Others (pl.specify)										
Total										

IV. Training Programme

Farmers' Training including sponsored training programmes (On campus)

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										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	5	104	24	128	-	-	-	104	24	128
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										

Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)	1	26	9	35	14	-	14	40	9	49
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										

Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	12	6	18	-	-	-	12	6	18
Production of quality animal products										
Others (pl.specify)	1	12	18	30	-	-	-	12	18	30
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										

Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	4	30	42	72	18	28	46	48	70	118
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture	1	15	-	15	-	-	-	15	-	15

Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										

Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**13**	**299**	**99**	**398**	**32**	**28**	**60**	**331**	**127**	**458**

Farmers' Training including sponsored training programmes (Off campus)

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										
Weed Management										
Resource Conservation Technologies										
Cropping Systems	1	15	-	15	-	-	-	15	-	15
Crop Diversification										
Integrated Farming	1	55	-	55	20	-	20	75	-	75
Micro Irrigation/Irrigation	1	20	9	29	6	1	7	26	10	36
Seed production										
Nursery management										
Integrated Crop Management	2	35	20	55	-	-	-	35	20	55
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										

Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (IPM in Banana)	1	28	-	28	12	-	12	40	-	40
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (Multi tier Cropping System in Coconut)	1	14	6	20	-	-	-	14	6	20
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										

Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management	2	90	15	105	15	-	15	105	15	120
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products	2	32	18	50	55	12	67	87	30	117
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking	1	13	-	13	-	4	4	13	4	17

Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	4	-	82	82	-	30	30	-	112	112
Women empowerment										
Location specific drudgery production	1	-	-	-	-	20	20	-	20	-
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management(Black Gram)	1	25	-	25	-	-	-	25	-	25
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (IPM - Sesamum)	1	20	12	32	-	-	-	20	12	32
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										

Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										

Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**19**	**347**	**162**	**509**	**108**	**77**	**185**	**455**	**239**	**694**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	1	11	14	25	9	6	15	20	20	40
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	1	32	-	32	16	-	16	48	-	48
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										

Ornamental fisheries										
Composite fish culture	1	32	-	32	16	-	16	48	-	48
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	3	75	14	89	41	6	47	116	20	136

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

NIL

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										

Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)	1	7	9	16	8	10	18	15	19	34
Total	1	7	9	16	8	10	18	15	19	34

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

NIL

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
Total										

Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Increasing production and productivity of crops	**1**	**30**	**27**	**57**	**20**	**17**	**37**	**50**	**43**	**93**
1.b.	Commercial production of vegetables										
2	**Production and value addition**										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	**Soil health and fertility management**	**1**	**70**	**-**	**70**	**15**	**-**	**15**	**85**	**-**	**85**
4	**Production of Inputs at site**	**3**	**77**	**76**	**153**	**37**	**60**	**97**	**114**	**136**	**250**
5	**Methods of protective cultivation**										
6	**Others (Micro irrigation)**	**1**	**20**	**3**	**23**	**6**	**1**	**7**	**26**	**4**	**30**
7	**Post harvest technology and value addition**										
7.a.	Processing and value addition										
7.b.	Others (pl.specify)										
8	**Farm machinery**										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
10.a.	Animal Nutrition Management										
10.b.	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management	**1**	**32**	**-**	**32**	**16**	**-**	**16**	**48**	**-**	**48**
10.e.	Others (Dairy Farm)	**1**	**32**	**-**	**32**	**16**	**-**	**16**	**48**	**-**	**48**
11.	**Home Science**										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
12	**Agricultural Extension**										
12.a.	Capacity Building and Group Dynamics										
12.b.	Others (pl.specify)										
	Total	**8**	**231**	**106**	**377**	**122**	**78**	**201**	**383**	**183**	**566**

Details of vocational training programmes carried out for rural youth

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl.specify)										
2	**Post harvest technology and value addition**										
2.a.	Value addition										
2.b.	Others (pl.specify)										
3.	**Livestock and fisheries**										
3.a.	Dairy farming										
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl.specify)										
4.	**Income generation activities**										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery and implements										
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.	**4**	**-**	**36**	**36**	**-**	**68**	**68**	**-**	**104**	**104**
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
5	**Agricultural Extension**										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	Grand Total	**4**	**-**	**36**	**36**	**-**	**68**	**68**	**-**	**104**	**104**

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services				
Field Day				
Group discussions	**22**	330	48	378
Kisan Ghosthi				
Film Show				
Self -help groups				
Kisan Mela				
Exhibition	**2(agri intex and TNAU, cbe)**	60	4	64
Scientists' visit to farmers field				
Plant/animal health camps				
Farm Science Club				
Ex-trainees Sammelan				
Farmers' seminar/workshop				
Method Demonstrations	**15**	195	20	215
Celebration of important days				
Special day celebration				
Exposure visits				
Others (pl.specify)				
Total				

Details of other extension programmes

Particulars	Number
Electronic Media	
Extension Literature	**65**
News Letter	
News paper coverage	6
Technical Articles	
Technical Bulletins	
Technical Reports	
Radio Talks	
TV Talks	**2**
Animal health amps (Number of animals treated)	
Others (pl.specify)	
Total	**73**

VI. PRODUCTION OF SEED/PLANTING MATERIAL

Production of seeds by the KVKs

NIL

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals					
Oilseeds					
Pulses					
Commercial crops					
Vegetables					
Flower crops					
Spices					
Fodder crop seeds					
Fiber crops					
Forest Species					
Others					
Total					

Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	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					

Production of Bio-Products

NIL

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

Production of livestock and related enterprise materials

NIL

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				
Fingerlings				
Others (Pl. specify)				
Total				

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2010-11

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	**913**	**615**	**196**	**34825**
Water	**447**	**346**	**121**	**7970**
Plant	–	–	–	–
Manure	–	–	–	–
Others (pl.specify)	–	–	–	–
Total	**1360**	**961**	**317**	**42795**

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted
1

IX. NEWSLETTER

Number of issues of newsletter published
2

X. RESEARCH PAPER PUBLISHED

Number of research paper published
NIL

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

Activities conducted				
No. of Training programmes	**No. of Demonstration s**	**No. of plant materials produced**	**Visit by farmers (No.)**	**Visit by officials (No.)**
NIL	**NIL**	**NIL**	**NIL**	**NIL**
NIL	**NIL**	**NIL**	**NIL**	**NIL**
NIL	**NIL**	**NIL**	**NIL**	**NIL**

----------XXXXXXX----------