ANNUAL REPORT 2010-11

(April 2010 to March 2011)

PUDUKKOTTAI

ANNUAL REPORT 2010-11 (APRIL 2010 TO MARCH 2011)

PART I - GENERAL INFORMATION ABOUT THE KVK

KVK Address	Tele	phone	E mail	Web Address
K V K Auuress	Office	Fax		
Krishi Vigyan Kendra				
National Pulses Research Centre				http://www.tna
Campus	04322-	04322-	kvkvamban	u.ac.in/
Tamil Nadu Agricultural University	200221	00000		
Vamban Colony (P O)	290321	296677	@tnau.ac.in	dee/vamban/k
Pudukkottai – 622 303				vk.html
Tamil Nadu				

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

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

Address	Telep	hone	E mail	Web Address	
	Office	Fax			
The Vice Chancellor Tamil Nadu Agricultural University	0422	0422	vc@tnau.a	www.tnau.	
Coimbatore-641 003	6611201	2431821	c.in	ac.in	
The Registrar Tamil Nadu Agricultural University	0422	0422	registrar@	www.tnau.	
Coimbatore-641 003	6611201	2431821	tnau.ac.in	ac.in	
The Director Directorate of Extension Education,		0422	dee@tnau.	www.tnau.	
Tamil Nadu Agricultural University, Coimbatore-641 003 -		6611433	ac.in	ac.in	

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

Nama	Telephone / Contact				
Name	Residence	Mobile	Email		
Dr.P.Chinnaiyan	Nil	9443820076	kvkvamban@tnau.ac.in		

1.4. Year of sanction:	2000 (NATP)
	2004 (ICAR)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category
1	Programme Coordinator	Dr.P. Chinnaiyan	Associate Professor	М	Agrl Rural Management	Ph.D.	37400- 67000+9000	38,800 05	.08.09	Permanent	OBC
2	Subject Matter Specialist	Th.S. S.Gopal	Assistant Professor (Selection Grade)	М	Agrl. Ento	M.Sc. Agri	12000-420-18500	14,700	21.05.08	Permanent	SC
3	Subject Matter Specialist	Dr.V.Krishnamoorthy	Assistant Professor (Senior scale)	ΜН	orticulture	Ph.D.	15600- 39100+7000	22,830 08	.05.08	Permanent	SC
4	Subject Matter Specialist	Dr. S. K. Natarajan	Assistant Professor	М	Agronomy	Ph.D.	15600- 39100+6000	19,600 30	.12.09	Permanent	OBC
5	Subject Matter Specialist	Dr. S. Gurunathan	Assistant Professor	М	Agrl. Eco	Ph.D.	15600- 39100+6000	19,600 31	.12.09	Permanent	OBC
6	Subject Matter Specialist	Dr. R. Suresh	Assistant Professor	М	Plant Breeding and Genetics	Ph.D.	15600- 39100+6000	19,600 11	.01.10	Permanent	OBC
7	Subject Matter Specialist	Dr.S.Kavitha	Assistant Professor	F	Seed Science and Technology	Ph.D.	15600- 39100+6000	19,600 8.	4.2010	Permanent	OBC
8 Lat	o Assistant	A.Manickavalli	Programme Assistant (Lab)	F Agr	iculture	B.Sc. Agri	9,300 - 34,800 + 4,400	11,600 04	.06.07	Permanent	OBC
9	Computer Programmer	S. Suganthi	Programme Assistant (Computer)	F	Computer Science	B.Sc. (CSc)	9,300 - 34,800 + 4,400	11,130 05	.12.08	Permanent	SC
10	Farm Manager	S. Abirami	Farm Manger	F	Plant Breeding and Genetics	M.Sc. Agri	9,300 - 34,800 + 4,400	11,130 02	.07.07	Submitted Resignation	OBC
11 S	uperintendent	A.Savithri	Superintendent	F	-	-	9,300 - 34,800 + 4,800	14,680 16	.05.08	Permanent	OBC
12 S	tenographer	A. Gunasekaran	Superintendent	М	-	-	9,300 - 34,800 + 4,800	12,600 19	.04.04	Permanent	OBC
13 D	river	L. Kulandaisamy	Senior Tractor Driver (Spl. Grade)	М -		-	5,200 -20,200 + 2,600	12,380 12	.09.95	Permanent	OBC
14 M	echanic	A. Adaikalam	Junior Tractor Driver	М -		-	4,800 -10,000 + 2,000	9,450 05	.05.04	Permanent	OBC
15 S	upporting staff	C. Dhanarasu	PUSM	М	-	-	4,800 -10,000 - 1,400	7,560 05	.05.04	Permanent	OBC
16	Supporting staff	K. Subramaniam	PUSM	М	-	-	4,800-10,000 - 1,300	7,100 05	.05.04	Permanent	OBC

1.5. Staff Position (as 31st March 2011)

1.6. Total land with KVK (in ha)

: 23.20

S. No.	Item	Area (ha)
1	Under Buildings	3.05
2.	Under Demonstration Units	2.81
3.	Under Crops	5.25
4. Orch	ard/Ag ro-forestry	12.09
5. Othe	rs	

1.7. Infrastructural Development:

A) Buildings

		Source of	Stage						
S.		funding		Complete			Incomplete		
No.	Name of building		Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction	
1. A	d ministrative Building	ICAR	31.03.11	550	55,00,000				
2. Fa	ar mers Hostel	ICAR-NATP	07.12.02	305	30,00,000				
3.	Demonstration Units (2)								
4. F	encing								
5.	Rain water harvesting system								
6.	Threshing floor	ICAR	31.3.2011	81	100000				
7. F	ar m godown	ICAR	31.3.2011	18	300000				
8.	Bore well	ICAR	31.3.2011	170m depth	300000				

B). Vehicles

Type of vehicle	Year of Purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero Jeep: (Four wheeler) TN55K4693	2004	4,90,851	1,09,113	Working
Hero Honda Splender+: (Two wheeler) TN55M1851	2006	39,970	28,678	Working
Hero Honda Pleasure : (Two wheeler) TN 55T4543	2009	50,000	8,008	Working
Tractor TN 55 F 9655	2002	2,65,950	2,930 hrs	Working
Power Tiller TN 55 F 7341	2001	1,13,500	648 hrs	Working
Power tiller	2011	1,35,000	-	Working

C). Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Camera 2006		19,590	Working condition
Photo copier	2002	1,20,000	Working condition
LCD	2006	58,650	Not Working
Computer with accessories (Lap Top)	2006	38,700	Working condition
Generator 2011		1,00,000	Working

1.8. Details SAC meeting conducted in 2010-11

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.				Skill on hybrid seed production techniques in maize COHM 5 to be provided to the farmers	One oncampus training about hybrid seed production in COHM-5 maize was conducted on 14.10.10 with the participation of 18 male rural youths One vocational training on hybrid seed production technologies in cereals & pulses were conducted between 19.7.2010 to 24.7.2010 with the participation of 6 male and 29 female farmers.
2.				Importance may given for red gram cultivation through transplanting method	One on campus training was given to 16 male and 11 female farmers on 06.07.2010. One off campus training was given to 18 male and 11 female farmers at Vallathirakottai.
3.				Technical guidance has to be provided to prevent mealy bug attack in black gram	One off campus training given to 23 male and 15 female on 18.11.10 at Dhachinapuram.
4.				Training may be given to control pod borer (Ear Wig) menace in groundnut	One off campus training was conducted at Kooliankadu on 6.9.2010 to 14 male and 20 female farmers.
5.	02.07.2009	12	8	Technical training programme has to be given on processing of banana and banana based bye products production	One oncampus training was given to 13 female and 14 females on 04.10.2010.
6.				Training on processing of cashew apple has to be provided	One oncampus training was given to 18 male and 4 female on 08.09.2010.

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
7.				Technologies for increasing the post harvest shelf life has to be provided for long distant transport of rose flowers (loose flowers).	One off campus training programme was conducted on 18.03.11 with participation of 20 male and 20 female were participated
8.				Techniques for extraction of concrete from rose flowers during peak season	One off campus training was conducted at Kulamangalam with the participation of 21 male and 18 female farmers on 7.10.2010.
9.				Technical advice should be given to the drip farmers on Maintenance of drip irrigation system	Field visit and onfarm advice given to the farmers of Pudunagar, Mangadu, Kotampatty training given on 8.10.10 Male - 18 and female 12 farmers participated.
10.				Technical intervention may be taken to increase the milk production in Thiruvarankulam block of Pudukkottai districts	One OFT programme on technology assessment of area specific mineral mixture was conducted at Venkidakullam.
11.				Seed production techniques booklets should be published	Booklets on Seed production of Pulses - 5000 copies, Paddy 500 copies and maize 500 copies were prepared and distributed to the interested farmers.
12.				Technology advertisement board should be kept in KVK campus, Vamban	Boards were prepared and placed in 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.	Agriculture, Horticulture, Forestry, Animal Husbandry and Fisheries

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

S. No	Agro-climatic Zone	Characteristics
1.	Cauvery Delta Zone & Southern Zone	Area 4,66,329 ha. A nnual average rain fall was 921 mm. Single crop under rainfed situation. Two or three crops under irrigation condition. Rice – Rice is the cropping s ystem. Groundnut – Pulses is the another system und er gard en land conditi on. V egetable and Oilseeds ar e also included in the sy stem. Some p art of the district, mono cropping of banana & sugarcane are fast spreading due to the start of sugar industry and high return from banana crop.

S. No	Agro ecological situation	Characteristics
1.	Southwest and Northeast monsoon	Elevation 400 metre MSL. The district is almost a level plain with hills in northern and south eastern parts. The western portion is 600 MS L and tapp ers ea stward upto sea proximity. The hillocks in the district are not predominantly continuous and massive and found to be granite in nature. The coastal plain stretching for 39 km.

2.3 Soil type

S. No	Soil type	Characteristics	Area in ha
1.	Red latertic loamy soil	The entire soils of the district are cl assified into 17 soil series. Out of the m 8 series alone occupy about 90 % of the t otal area. In this red latertic loamy soil in 2687sqkm, river al luvial so il 1536sqkm and saline co astal 4 40sqkm contributes 5 7.62%, 32.94%, 9.44% respectiv ely. Soils are sh allow t o moderately deep, medium tex tured, acidic to neu tral, non-calcarious, moderately well drained.	4,66,329

S. No	Сгор	Area (ha)	Production	Productivity
	•		(Metric tons)	(kg /ha)
1 Pa	dd y	97879	161853	1826
2 Ma	a ize	6973	60575	6837
3 Pu	lses			
1.	Blackgram	7886	12829	1042
2.	Redgram	1633	111	560
3.	Greengram	403	481	399
4.	Cowpea	17962	1274	1429
4 O	ilseeds			
	1. Groundnut 20	314	23889 14	32
2.	Gingelly	4106	2941	377
5 Su	garcane	4153	623634	125 t
6 Co	conu t	1668		
7 Co	tton (kapas)	187	133000	1330
8 Ca		17251	8625	500
9 Fr	uits			
	1. Banana	2639	79170	30 t
	2. Mango	2252	45040	20 t
	3. Other fruit crops	3474		
10 V	egetables			
	1. Brinjal	949	23725	25 t
	2. Bhendi	927	23175	25 t
	3. Chillies	596	1490	2.5 t
	4. Other vegetables	603		
11 Fl	ow er crops	153		
12 O	ther Crops	3327		
	Grand Total	165166		

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

2.5. Weather data (2010-11)

Month	Rainfall (mm)	Tempera	ature ⁰ C	Relative Humidity (%)
		Maximum	Minimum	
April 26.7		45.5	24.0	83
May 88.2		42.0	19.0	86
June 89.5		40.5	21.5	82
July 50.4		40.0	22.0	76
August 124.	7	40.5	21.0	71
September 17	9. 1	40.5 21	.5	90
October 46.0		26.5	20.0	92
November 25	3. 4	27.5	20.5	87
December 13	1. 0	40.0	18.5	96
January 23.0		35.3	23.8	92
February 6.0		36.0	23.5	94
March 0		36.7	23.5	94
Total/Mean	1018	37.58	21.57	86.92

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

Category	Population	Production	Productivity
Cattle			· · · · · ·
Crossbred	333326		
Indigenous			
Buffalo			
Sheep			
Crossbred 1	51078		
Indigenous			
Goats	177816		
Pigs			
Crossbred			
Indigenous			
Rabbits			
Poultry			
Hens 4	76110		
Desi			
Improved			
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish			
Marine	39km 52	352	
Inland	12974 6	510	
Prawn			
Scampi			
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. N o.	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	Alang udi	Thiruv aranku lam	Manchanvi duthi	2010	Paddy, Pulses, Jasmine	Low yield	Introduction of HYV, Hybrid seed production
2			Kothakottai	2009	Pulses, Groundnut, paddy,	Low yield	Introduction of HYV, designer seed
3			Thavalapall am	2010	Snake gourd, Banana, Tuberose, Paddy	Low yield	Introduction of HYV, IPM
4			Kulamanga lam	2010 P	addy, groundnut, pulses		Introduction of HYV, Designer seed,
5			Pattipunjai	2010	Paddy, pulses, banana, coconut		Designer seeds
6			Kurunthadi manai	2010	Paddy, bhendi, bitter gourd, cashew, coconut	Low yield	IPM, Designer seed
7			Mangadu	2009	Banana, jasmine, paddy, banana	Low Yield	INM, IPM
8			Vadagadu	2009	Maize, jasmine, paddy, banana	Low Yield	INM, IPM
9			Vennavalk udi	2010	Maize, jasmine, paddy, live stocks	Low Yield	INM, IPM
10			Kothamang alm	2010	Maize, jasmine, brinjal, paddy, pulses, fodders		Introduction of HYV, fodder bank
11			Vaniyanvid uthi	2010	Maize, jasmine, brinjal, paddy, pulses, fodders		Introduction of HYV, fodder bank
12			Dachinapur am	2008	Maize, jasmine, brinjal, paddy, pulses, live stocks	Raniket incidence, Post anestrum management	Vaccination, Animal Nutrition
13			Venkidakul am	2008	Maize, jasmine, brinjal, paddy, pulses, Live stocks	Raniket incidence, Post anestrum management	Vaccination, Animal Nutrition
14			Pathampatti		Maize, brinjal, paddy, pulses,	Low Yield	Introduction of HYV
16	Illupu r	Annav asal	Thalinji 20	07	Paddy, livestock Low	Yield	Designer seed
17			Vayalogam	2010	Paddy, pulses	Low Yield	Introduction of HYV
18	Pona marav thi	Ponam aravath i	Kovanur	2010	Paddy, pulses	Low Yield	Introduction of HYV, Drudgery reduction
19			Kulipirai	2010	Paddy, pulses, Mango	Low yield	INM, , Drudgery reduction
20			Panayapatti	2010	Paddy, pulses	Low Yield	Introduction of HYV, , Drudgery reduction
21	Kanda rvakot tai	Kandar vakotta i	Arasanipatt i	2010	Paddy, sugarcane	Low Yield	Introduction of HYV
			Mattangal	2010	Paddy, cashew, groundnut	Low Yield	Introduction of HYV

2.9 Priority thrust areas

S. No	Thrust area
1.	Introduction of HYV in paddy, black gram, green gram, red gram, sesame, groundnut, snake gourd
2.	Drought mitigation in upland paddy
3.	Hybrid seed production in paddy by farmers participatory approach
4.	Farm implements for weeding in wetland paddy
5.	Popularization sprinklers in pulses
6.	Control of fruit drop in mango
7.	Value addition of pulses
8.	Integrated Pest Management
9.	Nematode management in banana
10.	Low cost preservators for vegetable marketing
11.	Introduction of fodder bank
12.	Introduction of turkey rearing
13.	Vaccination of desi birds against Raniket disease
14.	Introduction of new improved goat breeds
15.	Post anestrum management in cross breed cows

PART III - TECHNICAL ACHIEVEMENTS

)FT		FLD				
1					2			
Num	ber of OFTs	FTs Number of farmers			farmers Number of FLDs Number of far			
Targets	Achievement	Targets	Targets Achievement		Achievement	Targets	Achievement	
66		79	79	16	16	240	240	

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

Training				Extension Programmes				
		3		4				
Numb	oer of Courses	Number	r of Participants	Number	· of Programmes	Number	umber of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
102 1	38	4500	4313	1415	1415	7948	7948	

Seed P	roduction (Qtl.)	Planting materials (Nos.)			
	5	6			
Target	Achievement	Target	Achievement		
21.05 2	1.05	64608	64608		

Livestock, poultry	strains and fingerlings (No.) 7	Bio	-products (Kg) 8
Target	Achievement	Target	Achievement
		1700	1700

								Interventions						
S. No	Thrust area	Crop/ Enterprise	Identified Problem	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.)	Supp bi prod	io
													No.	Kg
1.	Drought mitigation in upland paddy	Paddy	Low yield due to uncertaininity of rain	Use of designer seed in upland paddy cultivation		2 1			2					
2.	Hybrid seed production in paddy	Paddy	Non availability of hybrid seed	Farmers participatory hybrid seed production CORH3		2 1			2					
3.	Farm implements for weeding in wetland paddy	Paddy	Drudgery in cono weeder	Assessing the efficacy of refined wet land weeder developed by KVK		3 2			2					
4.	Nematode management in banana	Banana	Yield reduction due to nematode infestation	Management of banana nematodes by PGPR consortium		12			3					
5.	Vaccination of desi birds against Raniket disease	Poultry	Loss of desi birds due to ranikhet disease infection	Control of ranikhet disease in desi chicken		11			1					
6.	Post anestrum management in cross breed cows	Livestock	Problem of post anestrum	Area specific mineral mixture for dairy cows		11			1					
7.	Introduction of High Yielding Varieties	Paddy	Low yield with existing varieties		Introduction of CO (R) 49 paddy in wet land.	11		1	2					
8.	Ра	ddy	Low yield with existing varieties		Introduction of hybrid paddy (CoRH-3)	11		1	2					
9.	Bl	ack gram	Low yield with existing varieties		Introduction of HYV VBN (Bg) 5	11		1	2	13.34				
10.		Green gram	Low yield with existing varieties		Introduction of HYV VBN (Gm) -3	11		1	2	2.00				

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

11.	Re	d gram	Low yield with existing varieties		Introduction of HYV VBN (Rg) 3	11		1	2	1.00			
12.	Se	same	Low yield with existing varieties		Introduction of HYV TMV-7	11			2				
13.	G	round nut	Low yield with existing varieties		Introduction of HYV TMV (Gn)- 13	11			2	4.6			
14.		Snake gourd	Low yield with existing varieties		Introduction of PLR2 variety	11		1	2				
15.	IPM	Cashew	Yield loss		Management of tea mosquito bug	11		1	2				
16.	Control of fruit drop	Mango	Low fruit retention and quality		Spraying of SOP @ 4% at peanut stage and followup spray two times at 15 days interval	11		1	2				
17.	Popularization sprinklers in pulses	Pulses	Crop loss due terminal drought		Mini mobile sprinkler for pulses	11			2				
18.	Popularization of preservators for vegetable marketing	Vegetables	Post harvest weight loss and poor shelf life		Popularisation of low cost vegetable preservator	11			1				
19.	Value addition of pulses	Pulses	Low income from raw grains		Popularisation of pulses hulling machine	11			1				
20.	Introduction of new improved goat breeds	Livestock	Low income from existing breeds		Suitable goat breed for higher productivity	11			1				
21.	Introduction of turkey rearing	Poultry	Low income from existing poultry		Introduction of Turkey birds among farmers	11			1				
22.	Introduction of fodder bank	Fodders	Imbalanced fodder feeding	Fodde	r Bank	2	1		2	0.11	61000		

		S F		N	lo.of prog	rammes cor	ducted
S.No	Title of Technology	Source of technology	Crop/ enterprise	OFT	FLD	Training	Others (Field day)
1	2	3	4	5	6	7	8
1.	Use of designer seed in upland paddy cultivation	TNAU Pa	ddy	5		2	1
2.	Farmers participatory hybrid seed production CORH3	TNAU	Paddy	4		2	1
3.	Assessment of refined wet land weeder developed by KVK, Madurai	TNAU	Paddy	5		3	1
4.	Management of banana nematodes by PGPR consortium	TNAU Ban	ana	5		3	1
5.	Control of ranikhet disease in Desi chicken	TANUVAS	Poultry	50		1	1
6.	Area specific mineral mixture for dairy cows	TANUVAS	Livestock	10		1	1
7.	Introduction of CO (R) 49 paddy in wet land.	TNAU	Paddy		10	1	1
8.	Introduction of hybrid paddy (CoRH-3)	TNAU	Paddy		10	1	1
9.	Management of tea mosquito bug	TNAU	Cashew		10	1	1
10.	Spraying of SOP @ 2% at fruiting stages	TNAU	Mango		10	2	1
11.	Introduction of PLR2 variety	TNAU	Snake gourd		10	2	1
12.	Mini mobile sprinkler for pulses	TNAU	Micro irrigation		20	1	1
13.	Popularization of low cost vegetable preservator	CRIDA	PHT		20	1	1
14.	Popularization of pulses hulling machine	TNAU	Processing		20	3	1
15.	Introduction of HYV TMV (Gn)-13	TNAU	Groundnut		20	2	1
16.	Introduction of HYV TMV-7	TNAU	Sesame		20	2	1
17.	Introduction of HYV VBN (Rg)-3	TNAU	Red gram		20	2	1
18.	Introduction of HYV VBN (Bg)-5	TNAU	Black gram		20	2	1
19.	Introduction of HYV VBN (Gm)-3	TNAU	Green Gram		20	1	1
20.	Suitable goat breed for higher productivity TANUVAS		Tellichery Goat		5	1	1
21.	Introduction of Turkey birds among farmers	TANUVAS	Poultry		10	1	1
22.	Fodder Bank	TANUVAS	Fodder		15	2	1

3.B2 contd..

						No	o. of farm	ers cover	ed						
	OI	FT			FL				Trai	ning			Others (F	ield day)	
Gen	neral	SC	/ST	Gen	eral	SC	/ST	Gen			:/ST	Gen	eral	SC	/ST
Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2 1		1	1					32	16	8	4	16	8	4	2
11		1	1					34	14	7	5	15	7	5	3
3		2						48	24	12	6	12	8	4	5
21		1	1					48	24	12	6	17	5	5	2
25	15	3	7					16 8		4	2	16 4		4	6
3	3	1	3					16 8		4	2	18 6		5	1
				3	33		1	16	84		2	16	66		3
				3	32		1	16	84		2	15	85		2
				5	13		1	16	84		2	13	12	5	5
				6	1	1	13	2	16 8		4	18	10 5		3
				6	2	1	13	2	16 8		4	16	10 6		2
				12 2		4	2	16 8		4	2	14 9		5	1
				13 3		3	2	16 8		4	2	15 7		4	3
				15 2		2	1	48	24	12	6	15 8		5	2
				12	2	4	23	2	16 8		4	17	6	6	2
				13	3	3	23	2	168		4	16	8	4	2
				15	2	2	13	2	16 8		4	12	10 6		1
				12	2	4	23	2	16 8		4	16	8	4	2
				13 3		3	2	16 8		4	2	15 8		1	5
				2	11		1	16	84		2	15	4 6		1
				6	1	2	1	16	8	4	2	16	6	6	5
				7	3	3	23	2	16 8		4	17	8	3	3

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables F	ruits Flo	wer	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation	1									1
Integrated Pest Management						1				1
Integrated Crop Management	1									1
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management	1									1
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total	3					1				4

<u>PART IV - On Farm Trial</u> 4.A1. Abstract on the number of technologies assessed in respect of crops

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

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

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						
Nutrition Management	1					1
Disease of Management		1				1
Value Addition						
Production and						
Management						
Feed and Fodder						
Small Scale income						
generating enterprises						
TOTAL						2

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

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

4.B. Achievements on technologies Assessed and Refined

No. of Number Area in Thematic areas Crop Name of the technology assessed trials of farmers ha Integrated Nutrient Management Farmers participatory hybrid seed production Paddy 44 1 Varietal Evaluation CORH3 Application of Carbofuran 40g/sucker+Neem cake Banan 500g on 3, 5 Month + Application of *Pseudomonas* 55 1 Integrated Pest а fluorescence 25g/plant during 1, 3rd month Management Banan Management of Nematodes in banana 55 1 а Use of designer seed in upland paddy cultivation 55 Integrated Crop Paddy 1 Management 5 Use of designer seed in upland paddy cultivation. 5 1 Integrated Disease Management Small Scale Income Generation Enterprises Paddy Assessing the efficacy of refined weeder 55 1 Weed Management Single row power weeder designed by KVK, 55 1 Madurai Resource Conservation Technology Farm Machineries Integrated Farming System Seed / Plant production Value addition Drudgery Reduction Storage Technique Mushroom cultivation Total

4.B.1. Technologies Assessed under various Crops

4.B.2. Technologies Refined under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Integrated Nutrient Management					
Integrated Nutrient Management					
Varietal Evaluation					

Integrated Pest Management			
Integrated Crop Management			
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management			
Resource Conservation Technology			
arm Machineries			
Integrated Farming System			
Seed / Plant production			
	_	 	
Value addition		 	
Drudgery Reduction			
Storage Technique			
Mushroom cultivation			
	_		
Total			

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	Cattle	Area specific mineral mixture 30 to 50 g/day continuously for one year from the first day after calving	10 50	
Disease management	Poultry	 Oral Pellet Ranikhet Vaccine on the 7& 14 day RDVK – subcutaneous 8th and 16th week 	50 250)
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total				

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

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

4.C1. Results of Technologies Assessed	
Results of On Farm Trial -1	

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 Ra	infed	Low productivity due to moisture stress during early stages	Use of designer seed in upland paddy cultivation	5	TO1: The seeds are s own directly with out any treatment. Sowing ta ken up a s dry sowing prior to monsoon.	Germination %, Population, Yield q/ha and BCR	84 28 52.8t 2.0				
					TO2: Seed hardening with 1% KCl for 10 hrs + seed treatment with Bavistin @ 2 g + Azospirillum @ 20 g/ kg of seed	Germination %, Population, Yieldq/ha and BCR	90 30 55.5 2.1	4 % increased yield over TO1 but 9.3% lesser over TO3		Nil N	il
					TO3: Designer seed techniques : Seeds hardened with 1% KCl followed by coated with polymer @ 3g + Imidachloprid @1 ml + Carbendazim @ 2g + pseudomonas @10g + Azophos @ 40g + micronutrient mixture @ 20g + DAP @ 30g / kg of seed.	Germination %, Population, Yieldt/ha and BCR	90 32 60.0 2.3	Recorded 13.6%, 9.3% higher yield over TO1, TO2	Satisfied with technology but the inputs should be available as kit in markets	Nil N	il

Technology Assessed	Source of Technology	Production		Net Return (Profit) in Rs. / ha	BC Ratio
13 14		15	16	17	18
Technology option 1 (Farmer's practice)	No seed treatment	52.80	q/ha	27849.5	2.0
Technology option 2	TNAU, Coimbatore	54.90	q/ha	30033.5	2.1
Technology option 3	TNAU, Coimbatore	60.00	q/ha	35337.5	2.3

4.C2. Details of each On Farm Trial for assessment to be fu	rnished in the following	format separately as pe	r the following details

1.	Title of Technology Assessed	Use of designer seed in upland paddy cultivation
2.	Problem Definition	Low productivity due to moisture stress during early stages
3.	Details of technologies selected for assessment	TO1: The seeds are sown directly with out any treatment. Sowing taken up as dry sowing prior to monsoon. TO2: Seed hardening with 1% KCl for 10 hrs + seed treatment with Bavistin @ 2 g + Azospirillum @ 20 g/ kg of seed TO3: Designer seed techniques : Seeds hardened with 1% KCl followed by coating with polykote @ 3g + Imidachloprid @1 ml + Carbendazim @ 2g + <i>Pseudomonas</i> @10g + Azophos @ 40g + micronutrient mixture @ 20g + DAP @ 30g / kg of seed.
4.	Source of technology	TNAU, Coimbatore
5.	Production system and thematic area	Upland, Rainfed and drought mitigation
6.	Performance of the Technology with performance indicators	TO3 performed well and yielded high by recording higher germination (90%), plant population (32/sqmt) and yield (6.0t/ha)
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Difficult to get inputs required for seed treatment in time. Hence ,the farmers felt that designer seed should be prepared and sold in the market or the chemicals required should be given as a kit for the recommended seed rate.
8.	Final recommendation for micro level situation	Designer seed technology increased the yield in paddy under upland cultivation by giving tolerance to drought and nutrient deficiency. So it is recommended for upland paddy cultivation.
9.	Constraints identified and feedback for research	Nil
10.	Process of farmers participation and their reaction	Being a new technology, farmers involved well and practiced this technology. They satisfied because of cost effectiveness and higher productivity

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
12		3	4	5	6	7	8	9	10	11	12
Paddy Wet	land	Non availability of hybrid seeds	Farmers Participatory hybrid seed production	2	Conventional paddy seed production	Yield/ha	71q/ha				
					Hybrid seed production	Yield/ha	2.75q/ha V	er y low seed yield	Difficult to take up sequential sowing and planting, rope pulling, GA3 application. Very poor seed set and splitting of grains	Nil Nil	

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. / ha	BC Ratio
13 14		15	16	17	18
Technology option 1 (Farmer's practice)	TNAU, Coimbatore	71.30	q/ha	35687	1.92
Technology option 2	TNAU, Coimbatore	2.75	q/ha	-4090	0.89

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

11.	Title of Technology Assessed	Farmers participatory hybrid seed production
12.	Problem Definition	Non availability of hybrid seeds
13.	Details of technologies selected for assessment	TO1: Conventional paddy seed production TO2: Hybrid seed production
14.	Source of technology	TNAU
15.	Production system and thematic area	Wet land, Farmers Participatory hybrid seed production
16.	Performance of the Technology with performance indicators	Very poor seed setting percentage and seed yield
17.	Feedback, matrix scoring of various technology parameters done through farmer's participation	Hybrid seed production by farmers is non remunerative
18.	Final recommendation for micro level situation	Weather parameters in this districts is not suitable for paddy hybrid seed production
19.	Constraints identified and feedback for research	Not willing to go for hybrid seed production because of difficulties like sequential planting, pollination, application of GA3, synchronization and rope pulling.
20.	Process of farmers participation and their reaction	-

Results of ()n Farm Tr	ial -3									
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
12		3	4	5	6	7	8	9	10	11	12
Paddy	Wet land	Drudgery in adoption of SRI weeder	Assessing the efficacy of refined weeder	5	Rotary weeder	Weed control Efficiency Yield/ha	57% 73.65q	User friendly Less weight Easy to operate	Easy to operate by women		
					Double row TNAU power weeder	Weed control Efficiency Yield/ha	86% 83.27q	Larger area covered per day, WCE is more	Easy to operate and more area covered in short time		
					Plastic molded cono weeder	Weed control Efficiency Yield/ha	81% 78.80q	Plastic molded cono weeder .Less adoption rate due to to more weight	Getting shoulder pain if they work for large area.		

Technology Assessed	Source of Technology	Production	Please give the unit	Net Return (Profit) in Rs. / ha	BC Ratio
13 14		15	16	17	18
Technology option 1 (Farmer's practice)	TNAU 73.65		q/ha	40,046	2.10
Technology option 2	TNAU	83.27	q/ha	49,135	2.31
Technology option 3	TNAU	78.80	q/ha	44,882	2.21

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

1.	Title of Technology Assessed	Assessing the efficacy of refined weeder
2. Pr	ob lem Definition	Drudgery in adoption of SRI weeder
3.	Details of technologies selected for assessment	TO1: Rotary weeder TO2: Double row TNAU power weeder TO3: Plastic molded cono weeder
4.	Source of technology	TNAU
5.	Production system and thematic area	Wetland, Drudgery reduction
6.	Performance of the Technology with performance indicators	Wet land paddy ecosystem and weed management
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	TO2 is very effective to control weeds because of more area coverage in short period and very easy to operate
8.	Final recommendation for micro level situation	Spacing in SRI method may be enhanced to 30X10 cm for double row power weeder
9.	Constraints identified and feedback for research	Square planting is must for adopting weeder. SRI marker may be modified for easy adoption by farmers
10.	Process of farmers participation and their reaction	Labour saving, high yield

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
12		3	4	5	6	7	8	9	10	11	12
Banana Gard	en Land	Nematode Infestation	Management of Nematodes	5	TO1: No control measures	Soil Nematode Population Bunch weight(kg) Yield(q/ha)	275 20.10 460				
					TO2: Application of Carbofuran 40g/sucker+Neem cake 500g on 3, 5 Month +Application of <i>Pseudomonas fluorescence</i> 25g/plant during 1, 3 rd month	Soil Nematode Population Bunch weight(kg) Yield(q/ha)	125 22.50 494.0	The bunch weight and yield was higher over TO1		Nil Nil	
					TO3: Application of Carbofuran 40g/sucker+Neem cake 500g at planting and 3 rd Month+ <i>Pseudomonas</i> <i>fluorescence</i> 1. 25kg/ha + <i>Bacillus subtilis</i> 1.25kg/ha during 1 st and 3 rd month	Soil Nematode Population Bunch weight(kg) Yield(q/ha)	85 23.18 510.0	The bunch weight and yield was higher over TO2	The farmers satisfied with TO3	Nil Nil	

Technology Assessed	Source of Technology	Production u	nit	Net Return (Profit) in Rs. / unit	BC Ratio
13 14		15	16	17	18
Technology option 1 (Farmer's practice)	No control measures	460	q/ha	127776	2.21
Technology option 2	NRC banana	494	q/ha	183700	2.63
Technology option 3	TNAU, Coimbatore	510	q/ha	193200	2.71

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

1.	Title of Technology Assessed	Management of nematode in banana
2.	Problem Definition	Nematode Infestation
3.	Details of technologies selected for assessment	TO1: No control measures TO2: Application of Carbofuran 40g/sucker at planting +Neem cake 500g at planting and 3 rd Month +Application of <i>Pseudomonas fluorescence</i> 25g/plant during 1, 3 rd month TO3: Application of Carbofuran 40g/sucker+Neem cake 500g/plant on 3, 5 Month+ <i>Pseudomonas fluorescence</i> 1. 25kg/ha + <i>Bacillus subtilis</i> 1.25kg/ha during 1, 3 month
4.	Source of technology	TO2: NRC banana, TO3: TNAU, Coimbatore
5.	Production system and thematic area	Garden land, IPM
6.	Performance of the Technology with performance indicators	The root damage has been reduced and bunch weight increased
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	The Carbofuran and neem cake costs were higher
8.	Final recommendation for micro level situation	Application of Carbofuran 40g/sucker at planting +Neem cake 500g/plant at planting 3 Month + <i>Pseudomonas fluorescence</i> 1.25kg+ <i>Bacillus subtilis</i> 1.25kg/ha during 1, 3 rd month
9.	Constraints identified and feedback for research	Nil
10.	Process of farmers participation and their reaction	The farmers showed interest in adapting the technology

Results of On F	Farm Trial -5
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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
12		3	4	5	6	7	8	9	10	11	12
Poultry	Back yard	Incidence of ranikhet disease	Control of ranikhet disease in desi chicken	50 1.	No Vaccination	Mortality (%) 7 th day 14 th day	17 14				
					2. RDVF vaccine – Eye drops -7 th and 14 th day 3. RDVK – Subcutaneous 8 th and 16 th week	Mortality (%) 7 th day 14 th day 8 th week 16 th week	5 5 2 2	Mortality pattern was less in TO2	-		-
					1. Oral Pellet Ranikhet Vaccine on the 7 th to 14 th day 2. RDVK – subcutaneous 8 th and 16 th week	Mortality (%) 7 th day 14 th day 8 th week 16 th week	5 5 2 2	Mortality pattern was less in TO2 and TO3	Farmers accepted the TO3 because of easy administration of vaccination by oral pellets form.		

Technology Assessed	Source of Technology	Production Unit		Net Return (Profit) in Rs. / ha	BC Ratio
13 14		15	16	17	18
Technology option 1 (Farmer's practice)	- 70		Eggs/bird/year	210	1.80
Technology option 2	TANUVAS	85	Eggs/bird/year	230	2.30
Technology option 3	TANUVAS	85	Eggs/bird/year	230	2.30

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

21.	Title of Technology Assessed	Control of ranikhet disease in desi chicken
22.	Prob lem Definition	Incidence of ranikhet disease
23.	Details of technologies selected for assessment	TO2 : RDVF vaccine – Eye drops -7 th and 14 th day RDVK – Subcutaneous 8 th and 16 th week
24.		TO3 : Oral Pellet Ranikhet Vaccine on the 7 th to 14 th day RDVK – subcutaneous 8 th and 16 th week
25.	Source of technology	TANUVAS
26.	Production system and thematic area	Back yard poultry, Disease Management
27.	Performance of the Technology with performance indicators	Mortality pattern was reduced from 17% to 5 % in the early stage
28.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Farmers accepted TO3 even though TO2 and TO3 gave same results. Administration of vaccine in pellet form is more convenient farmers.
29.	Final recommendation for micro level situation	Oral pellet vaccine on 7 th and 14 th day and 8 th and 16 th week
30.	Constraints identified and feedback for research	Availability of pellet form of vaccine
31.	Process of farmers participation and their reaction	Farmers especially farm womens showed interest to adopt this technology to prevent the desi chicken from Raniket disease.

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
12		3	4	5	6	7	8	9	10	11	12
Cattle Ca	ttle rearing	Long post calving period	Assessment of area specific mineral mixture	10	No mi neral mixture	Milk yield On set of first estrum No of insemination required	6L/day 6month 5				
					Mineral mixture 30- 50 g /day continuously for one year from the first day after calving	Milk yield On set of first estrum No of insemination required	7 4 3			-	-
					Area specific mineral mixture 30 to 50 g/day continuously for one year from the first day after calving	Milk yield On set of first estrum No of insemination required	8 3 2	Supplementation of area specific mineral mixture increased milk yield and conception rate % increased	Satisfied with TO3	-	

Results of On Farm Trial -6

contail					
Technology Assessed	Source of Technology	Production Please dive the limit		Net Return (Profit) in Rs. / ha	BC Ratio
13 14		15	16	17	18
Technology option 1 (Farmer's practice)	6		Litre/animal/day	24	2.10
Technology option 2	TANUVAS	7	Litre/animal/day	38	2.70
Technology option 3	TANUVAS	8	Litre/animal/day	43	3.00

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

1.	Title of Technology Assessed	Assessment of Area specific mineral mixture for dairy cows
2.	Problem Definition	Long post calving period
3.	Details of technologies selected for assessment	TO1: Farmers Practice TO2: Mineral mixture: 30- 50 g /day continuously for one year from first day after calving TO3: Area specific mineral mixture: 30 - 50 g/day continuously for one year from first day after calving
4.	Source of technology	TANUVAS
5.	Production system and thematic area	Dairy-Cross breeds
6.	Performance of the Technology with performance indicators	Milk yield was high in TO3and require less no. of insemination for conception. Quicker onset of estrum after calving.
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation	Farmers prefers TO3 since it produce higher milk yield and it is effective in success rate of insemination
8.	Final recommendation for micro level situation	Supplementation of area specific mineral mixture 30-50gm/day
9.	Constraints identified and feedback for research	-
10.	Process of farmers participation and their reaction	Farmers are ready to adopt the technology because of more milk yield and effective in success rate of insemination

PART V - FRONTLINE DEMONSTRATIONS

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

Sl. No.	Category	Farming Situation	Season and Year	Сгор	Variety/ breed	Hybrid 7	hem atic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual S	C/ST	Others 7	o tal	
10	ilseeds	Irrigated	Rabi 2011	Ground nut	TMV (Gn) 13		Introduction of HYV	Popularization of new variety TMV (Gn) 13	4 4		5	15	20	Nil
		Irrigated	Rabi 2010	Sesame TM	V(Si)7		Introduction of HYV	Popularization of new variety TMV (Si)7	44		7	13	20	Nil
2 Pı	lses	Irrigated	Rabi 2010	Black gram	VBN (Bg)5		Introduction of HYV	Popularization of new variety VBN (Bg)5	44		4	16	20	Nil
		Irrigated	Rabi 2010	Green gram	VBN (Gm)3		Introduction of HYV	Popularization of new variety VBN (Gm)3	2 2		1	19	20	Nil
		Rainfed	Kharif 2010	Red gram	VBN (Rg)3		Introduction of HYV	Popularization of new variety VBN (Rg)3	44		3	17	20	Nil
3 C	e reals	Wetland	Samba 2010	Paddy CO	(R) 49		Introduction of HYV	Popularization of new variety CO(R) 49	2 2		2	8	10	Nil
		Wetland	Samba 2010	Paddy		CORH- 3	Introduction of Hybrid rice	Popularization of new hybrid CoRH- 3	2 2		-	10	10	Nil
4 M	illets													
5 V	egetables	Irrigated	Kharif 2010	Snake gourd	PLR2		Introduction of HYV	Popularization of HYV PLR2	2 2		2	8	10	Nil
6 F	lowers													
7 0	m amental													
8 F	ruit	Rainfed	2010- 11	Mango Ba	ngalora		Foliar nutrition	Foliar application of sulphate of	2 2		1	9	10	Nil

9 10 C	Spices and condiments ommercial							potash 2% at peanut stage and 2 sprays at 15 days interval						
11	Medicinal and aromatic													
12 F	odder	Irrigated	Rabi	Cumbu Napier, Guinea grass, Desmanthus	Co4 Co(Gg)-3		Popularization of fodder bank	Popularization of fodder bank Cumbu Napier, Guinea grass, Desmanthus	1.04 1.	04	4	11	15	Nil
13 P	lantation	Rainfed	2010- 11	Cashew V	RII		ICM	Application of coir pith 50kg/tree Spraying against tea mosquito bug Profenophos5ml/L at fleshing Chlorpyriphos 5ml/L at flowering Carboryl 1g/L at peanut stage	2 2		2	8	10	Nil
14	Fibre													
15 D	airy													
16 P	oultry	Back yard	2010- 11	Turkey -		-	Introduction of turkey	Popularization of Nandanam Turkey birds	10 units	10 units	2 8		10	Nil
17 R	a bbitry													
18 P	igerry													

19 G	oat	Open grazing	2010- 11	Goat Tel	licherry		Introduction	Suitable goat breed for higher productivity	5 units	5 units	1	4	5	Nil
20 D	uckery													
	5													
21	Common carps													
22 M	fu ssels													
23 O	rnamental fishes													
24 O	yster mushroom													
25 B	utton mushroom													
26 V	ermicompost													
27 S	ericulture													
28 A	piculture													
29 Ir	n plements	Terminal Drought prone areas	2010- 11	Pulses	Mini mobile sprinkler		Introduction of mini mobile sprinkler	Mini mobile sprinkler for pulses	20 20		5	15	20	Nil
		Pulses Commodity groups	2010- 11		Pulses Hulling machine		Introduction of pulses hulling machine	Popularisation of pulses hulling machine	2 tone	2 tone	3	17	20	Nil
30	Others (Post Harvest Storage)	Retail markets	2010- 11	Brinjal -		-	Introduction of vegetable preservator	Popularisation of low cost vegetable preservator	1 tone	1 tone	4	16	20	Nil

Sl. No.	Category	Farming Situation	Season and Year	Crop V	ariety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	,	g/ha	l)	Previous crop grown
12		3	4	5	6	7	8	9	10	<u>N P</u>	12	K 13	14
			4 Rabi	Ground	TMV (Gn)	/	o Introduction	Popularization of new	Rabi				
1.	Oil seeds	Irrigated	2010	nut	13		of HYV	variety TMV (Gn) 13	2010	112 2	24	240	Sesame
2.		Irrigated	Rabi 2010	Sesame T	MV (Si)7		Introduction of HYV	Popularization of new variety TMV7	Rabi 2010	182 1	2	190	Black gram
3.	Pul ses	Irrigated	Rabi 2010	Black gram	VBN (Bg) 5		Introduction of HYV	Popularization of new variety VBN (Bg) 5	Rabi 2010	112 2	24	240	Paddy
4.		Irrigated	Rabi 2010	Green gram	VBN (Gm)3		Introduction of HYV	Popularization of new variety VBN (Gm)3	Rabi 2010	162 3	35	240	Paddy
5.		Rainfed	Kharif 2010	Red gram	VBN (Rg)3		Introduction of HYV	Popularization of new variety VBN (Rg)3	Kharif 2010	134 8	3	226	Black gram
6.	Cer eals	Wet land	Samba 2010	Paddy C	O(R) 49		Introduction of HYV	Popularization of new variety CO(R) 49	Kharif 2010	210 1	10	300	Black gram
7.		Wetland	Samba 2010	Paddy		CORH- 3	Hybrid seed production	Popularization of new hybrid CORH-3	Kharif 2010	112 1	15	260	Black gram
8.	Mil lets												
<u>9.</u> 10.	Ve getables	Irrigated	Kharif 2010	Snake gourd	PLR2		Introduction of HYV	Popularization of new variety PLR2	Kharif 2010	185 9)	221	Bhendi
11.	F1												
<u>12.</u> 13.	Flowe rs												
14.	Ornam ental												
15.													
101	F ruit	Irrigated	2010- 11	Mango B	ang alora		INM	Spraying of SOP @ 2% at peanut stage and followup spray two times at 15 days interval	2010-11	176 1	12	213	-
17.													

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

18.	Spices and condiments											
19.	condiments											
	Co mmercial											
21.												
22.	Medicinal and aromatic											
23.												
24.	Fodder	Irrigated	Rabi 2010	Fodder bank	Cumbu Napier Co4, Desmanthus, Guines grass Co(Gg)-3	Rational Grazing	Planting Co4 Cumbu Napier, Desmanthus, Guinea grass in 1:1:1 land ratio	Rabi 2010	206 1	2	365	Maize
25.												
26.	Pl antation	Rainfed	2010- 11	Cashew V	/RI 1	IPM	Spraying of Profenophos 5ml /L at flushing stage followed by chlorpyriphos 5ml/L at flowering stage and Carboryl 1g /L + Urea 4%	2010-11	178 8		241	-
27.												
28.	Fi bre											

5.B. Results of Frontline Demonstrations

5.B.1. Crops

5.B.I. Crops					1	<u>r</u>							·							
0	Name of the			Farming	No. of	Area		Yie	ld (q/ha)	0 / T	*Eco	nomics of (Rs.	demonstra /ha)	ation	*Economics of check (Rs./ha)				
Crop	technology demonstrated	Variety Hy	vbrid	situation	Demo.	(ha)		Demo	Ch	eck	% Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
							Н	L	Α						-					
Oilseeds																				
Ground nut	Popularization of new HYV	TMV(Gn)- 13	Irrig	ated	20	4	21	18	19.5	18.00	8.33	25800	68250 4	2450	2.64	25800	63000	37200 2.	. 44	
Sesame	Popularization of new HYV	TMV(Si)7		Irrigated	20	4	8.9	8.2	8.5	7.65	11.11 150	50	32300	17250 2	.14	15050	29070	4 020 1.	. 93	
Pulses																				
Black gram	Popularization of new HYV	VBN (Bg)5		Irrigated	20	4	11.2	8.56 9	.88	8.40	17.62	20701	59280 3	8 579 2	.86	20701	50400 2	9699	2.43	
Green gram	Popularization of new HYV	VBN (Gm)-3	Irrig	ated	20	2	12.5	9.75	11.12	9.10 22.	2	19900	55625 3	5725	2.79	19900	45500	25600 2.	. 28	
Red gram	Popularization of new HYV	VBN(Rg)3		Rainfed	20	2	9.25	7.50	8.37	6.45	29.77	15580	41875	26295	2.68	15580	32250	16670	2.06	
Cereals																				
Paddy	Popularization of new Hybrid	CORH	13	Wet land	10	2	97.6	82.2	89.9	73.6	22.15	38812	93496	54684	2.41	38812	76544	37732	1.97	
Paddy	Popularization of new HYV	CO (R)49		Wetland	10	2	81.25	70.0	75.63	64.37	17.49	38465	78650	40185	2.04	38465	66950	28485	1.74	
Millets																				
Vegetables																				
Snake gourd	Popularization of HYV	PLR2		Irrigated	10	2	390	350	370	160 (Tropical short)	131.25 73	123	185000	111877	2.53	52980	80000	27020	1.51	
Flowers																				
Ornamental																				
Fruit																				
Fruit	Folior application																		<u> </u>	
Mango	Foliar application of sulphate of potash 2% at peanut stage and 2 sprays at 15 days interval	Bangalora		Rainfed	10	2	190	156	173	152	13.82	33650	86500	52850	2.57	36019	76000	39981	2.11	
Spices and condiments																				
																			\square	
Commercial																				

Medicinal and aromatic																			
Fodder F	odder bank	Co(CN)-4 Co(Gg)-3	Irrig	ated	16	1.04	3450	2900	3175	2400	32.29	24650	71978 4	7328	2.92	23750	48450	24700 2.	04
Plantation																			
Cashew	Application of coir pith 50kg/tree Spraying against tea mosquito bug Profenophos5ml/L at fleshing Chlorpyriphos 5ml/L at flowering Carboryl 1g/L at peanut stage	VRI1		Rainfed	10	2	10.4	8.6	9.5	6.13	54.98	15322	38000	22678	2.48	11621	24520	12899	2.11
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.)

1.Technology demonstrated: Popularization of TMV(Gn)-13 Ground nut									
Parameter with unit	Demo (TMV(Gn)-13)	Local (VRI-2)							
No. of pods/plant	38	32							
Shelling percentage	74	71							
Straw yield (t/ha)	4.4	3.9							

2.Technology demonstrated: Popularization of TMV(Si)-7 Sesame								
Parameter with unit	Demo	Local (VRI2)						
Plant height (cm)	128	135						
No. of branches/plant	5	3						
Powdery mildew susceptibility	Moderate	Tolerant						

3.Technology demonstrated: Popularization of VBN (Bg)5 black gram								
Parameter with unitDemoLocal (VBN3)								
No. of branches	5	3						
Yellow mosaic virus	Moderately susceptible	Tolerant						

4. Technology demonstrated: Popularization of VBN (Gm)-3 Green gram								
Parameter with unitDemoLocal (VBN2)								
Yellow mosaic tolerance	Moderately susceptible	Tolerant						

5.Technology demonstrated: Popularization of VBN (Rg)-3 Red gram									
Parameter with unitDemoLocal (APK1)									
Sterility mosaic incidence	No incidence	Tolerant							
Pod borer incidence	Tolerant	Moderately susceptible							

6.Technology demonstrated: Popularization of CO(R) -49 Paddy									
Parameter with unit	Demo	Local (BPT5204)							
Yellow stem borer	Moderately susceptible	Moderately susceptible							
Blast M	oderately susceptible	Highly susceptible							
Duration (days)	125	135							

7. Technology demonstrated: Popularization of CORH -3 Paddy

Parameter with unit	Demo	Local
Panicle length	32 cm	26 cm
No of tillers	35	27

8.Technology demonstrated: Popularization of PLR -2 Snake gourd										
Parameter with unit	Demo	Local								
	(PLR2)	(Tropical short)								
Fruit weight(g/fruit)	600	330								
Fruit volume	1100ml	350ml								
No.of fruits/vine	15	12								

9.Technology demonstrated: Foliar application of sulphate of potash 2% at peanut stage and 2 sprays at 15 days interval in mango											
Parameter with unit	Demo	Local									
Fruit weight (g/fruit)	450	300									
No. of fruits (Nos/tree)	351	302									
Physical Appearance	Best	Good									

10.Technology demor	10.Technology demonstrated: Popularization of Fodder Bank												
Parameter with unit	Demo	Local											
Fodder availability	Throughout the year	During monsoon season											
No. of cuttings	9 times	Irregular availability											

11.Technology demor Management of Tea M	estrated: Soil moisture Conservation and osquito bug in cashew	
Parameter with unit	Demo	Local
	Soil moisture conservation and Spraying of Profenophos 5ml/L at flushing stage followed by chlorpyriphos 5ml/L at flowering stage and Carboryl 1g/L + Urea 4%	Without soil moisture conservation and spraying of synthetic pyrithroids
Pest incidence (%)	15	45
No. nuts (nos/tree)	550	380
Yield (kg/tree)	5.5	3.50

5.B.2. Livestock and	related er	nterprises
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Type of	Name of the technology		No. of	No.	ξ, ²				%	*Eco		f demonstr 'bird)	ation	*Economics of check (Rs./bird)				
livestock	demonstrated	Breed	Demo	of Units		Demo		Demo Check if any		Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	· · ·	Net Return	** BCR
					Н	L	Α	ung		0000	110000111	10000111	2011	0050	110000111	110000111		
Dairy																	<u> </u>	
Poultry	Introduction of turkey birds among farmers	Nandanam- 1	10	10	8.2	6.6	7.40	1.90	64.05	460 1	11 0	650	2.41	350 4	18	68	1.19	
Rabbitry																		
Pigerry																	<u> </u>	
Goat	Popularization of improved breed	Tellicherry	66		15.6	11.7	13.65	9.5	43.68	1350 3	141	1791	2.33	1050	2185	1135	2.08	
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 narameters othe	r than viold (viz – roductic	n of norcontago dispasos i	increase in conceiving rate	inter-calving neriod atc.)
Data on additional parameters othe	i man yiciu (viz., i cuucu	m of percentage diseases, i	mercase in concerving rate,	mut-carving period cu.)

12. Data on other parameters in relation to technology demonstrated											
Parameter with unit	Demo	Check if any									
Milk yield (l/cow/day)	11	8.5									
Concentrate feed cost	less	more									

13. Technology demo	13. Technology demonstrated: Popularization of improved Goat breed												
Parameter with unit	Demo (Tellicherry)	Check if any (Local Breed)											
Body growth weight	More	Less											
Flesh softness	More	Less											

5.B.3. Fisheries

Type of Breed Name	Name of the technology demonstrated	Dread	No. of Demo	Units/ Area (m ²)	Yield (q/ha)			(q/ha)	0/ 1	*Economics of demonstration Rs./unit) or (Rs./m2)					*Economics of check Rs./unit) or (Rs./m2)			
		Breed			Ι	Demo	o Ch	eck if any	% Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					ΗI	Ā											1	
Common carps																		
Mussels																		
Ornamental fishes																		
Others (pl.specify)																		

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

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

5.B.4. Other enterprises

Enterprise	Name of the	Variaty/		Units/ Area		Y	ield	(q/ha)	%	*Economics of demonstration (Rs./unit) or (Rs./m2)				*Economics of check (Rs./unit) or (Rs./m2)			
	technology demonstrated	species	Demo	$\{m^2\}$	Γ	Demo	5	Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	А										
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	Cost of the implement	olement demonstrated		Area covered under demo	demo Mandays		%	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
implement	in Rs.		Demo	in ha	Demo C	h eck	save		Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Mini mobile sprinkler	,	Mini mobile sprinkler in black gram	20	8	3	8	62	1250/ha	17566	39600 22	20 34 2.	25	15738	31200	15462	1.98
CRIDA vegetable preservator	2050	Popularization of CRIDA vegetable preservator	20 15k	g/demo	-	1	100	250/day	91.2	150	58.8	1.64	90	108	18	1.2
Pulses hulling machine	61.000	Popularization of Pulses hulling machine	20	100kg/demo	2	4	50	500/day	5320	6100 7	80	1.15	4800	5200 4	00	1.08

* 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.)

14. technology demonstrated : Popularization of CRIDA vegetable preservator									
Parameter with unit	Demo	Local							
Portability Yes		No							
Lesser weight	Yes	No							
Supplementary irrigation in terminal drought areas	Possible	Not possible							

15. technology demonstrated : Popularization of CRIDA vegetable preservator										
Parameter with unit	Demo	Local								
Shelf life of the vegetables (Days)	12	5								
Electricity usage (Units/day)	0	0.7								
Cost of preservation (Rs/day/15kg)	0	0.8								

16.Technology demonstrated: Popularization of pulses hulling machine									
Parameter with unit Demo Local									
Marginal price after harvesting	65	48							

5.B.6. Cotton

Sl. No.	Category	Technology Demonstrated	Variety H	Iy brid	Season	Area (ha) Proposed Ac tual S			. of farmer monstratio		Reasons for shortfall in achievement
INU.		Demonstrated			and year			C/ST	Others T	otal	
Р	roduction Technology										
	IPM										
Far	m Implements										

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

5.B.6.2 Production technology demonstrations

Performance of demonstrations

Farmin g	Technology Demonstrate	Are a	No.of	Variet	Hybri	Yield (q/ha)		Yield (q/ha)		Yield (q/ha)		% Increas	Econ	omics of (Rs.	demonstra /ha)	tion	Ecc	nomics o (Rs.	f local che /ha)	eck
situatio n	d	(ha)	demo	y	d	Dem	Loca	e	Gros s	Gross Retur	Net Retur	BC R	Gros s	Gross Retur	Net Retur	BC R				
						0	1		Cost	n	n		Cost	n	n					

Performance of Bt hybrids, Desi hybrids, non-Bt hybrids and Varieties in Front Line Demonstrations in cotton during 2010-11

	Farmi ng	Technolog y	Are a	No.o			Yield ((q/ha)	% Increa	Econo	omics of (Rs.	demonstr /ha)	ation	Eco	nomics o (Rs.	f local ch /ha)	.eck
Category	situati on	Demonstra ted	(ha)	f dem o.	Varie ty	Hybri d	Dem o	Loc al	se	Gro ss Cost	Gros s Retur n	Net Retur n	BC R	Gro ss Cost	Gros s Retur n	Net Retur n	BC R
Bt hybrids																	
Desi hybrids (AXA)																	
HXB Hybrids																	
HXH Hybrids																	
Herbaciu m Varieties																	
Hirsutu m Varieties																	
Arboreu m Varieties																	

Farmin g	Variet y	Hybri d	No. of	Total No.	Are	Incide diseas	nce of p es (%)	est and	Seed ((q/ha)	Cotton Y	ield	Econor (Rs./ha	nics of den	onstratior	1	Econor	nics of loca	al check (R	s./ha)
situatio n			block s	of Demo	a (ha)	IP M	Non IP M	% Chang e	IP M	Non IP M	% Chang e	Gros s Cost	Gross Retur n	Net Retur n	BC R	Gros s Cost	Gross Retur n	Net Retur n	BC R

5.B.6.4 Demonstrations on farm implements

Name of the implement	Area (Ha)	No. of Demo.	Name of the technology demonstrated	Labour requirement for operation (Rs./ha)		for
				Demo	Local	%
					check	change
Total						

5.B.6.5 Extension Programmes organized in Cotton Demonstration Plots

Extension activity	No. of		Participants	8		SC/ST	
·	Programmes	Male	Female	Total	Male	Female	Total
Consultancy							
Conventions							
Demonstrations							
Diagnostic surveys							
Exhibition							
Farmer study tours							
Farmers Field school							
Field Days							
Field visits							
Gram sabha							
Group discussions							
Kisan Gosthi							
Kisan Mela							
Training for Extension Functionaries							
Training for farmers							
Viedo show							
Newspaper coverage							
Popular articles							
Publication							
Radio talks							
T.V. Programme							
Others (Pl.specify)							
TOTAL							

5.B.6.6Technical Feedback on the demonstrated technologies on all crops / enterprise

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1			
2			

5.B.6.7 Farmers' reactions on specific technologies

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1			

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1 F	ield days			
2 F	armers Training			
3 M	edia coverage			
4	Training for extension functionaries			

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids

Time of	Name of the	Name	No.	Are	L	Yie	ld (q/	'ha)	%	*Eco	nomics of (Rs.		ation	*	Economic (Rs.	s of chec /ha)	k
Type of Breed	technology demonstrate	of the hybri	of Dem	a (ha)]	Demo)	Chec	Increas e	Gros s	Gross Retur	Net Retur	** BC	Gros s	Gross Retur	Net Retur	** BC
	d	d	0	()				k		Cost	n	n	R	Cost	n	n	R
Cereals					Η	L	Α										
Bajra																	
Maize																	
Paddy																	
Sorghum																	
Wheat																	
Others																	
(pl.specify)																	
Total Oilseeds																	
Castor																	
Mustard																	
Safflower																	
Sesame																	
Sunflower																	
Groundnut																	
Soybean																	
Others																	
(pl.specify)		 															<u> </u>
Total																	
Pulses Greengram																	
Blackgram																	
Bengalgram																	
Redgram																	
Others																	
(pl.specify)																	
Total																	
Vegetable																	
crops Bottle																	
gourd																	
Capsicum																	
Others																	
(pl.specify)																	
Total																	
Cucumber																	
Tomato																	
Brinjal		<u> </u>															──
Okra Onion		<u> </u>		+										1			<u> </u>
Potato																	<u> </u>
Field bean				1													
Others		İ	l											Ì			
(pl.specify)																	
Total		ļ															
Commerci																	
al crops Sugarcane				<u> </u>													<u> </u>
Coconut		<u> </u>				-											<u> </u>
Others		<u> </u>												1			<u> </u>
(pl.specify)																	
Total																	
Fodder																	
crops																	
Maize																	
(Fodder)		<u> </u>															──
Sorghum (Fodder)																	
Others		<u> </u>															
(pl.specify)																	
Total	1	1	1	1						1			l	1			1

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)

	No of	No. of Participants												
Area of training	No. of Cours		General			SC/ST		G	rand To	otal				
Area of training	es	Mal	Fema	Tot	Mal	Fema	Tot	Mal	Fema	Total				
Crop Production		e	le	al	e	le	al	e	le					
-														
Weed Management Resource Conservation														
Technologies														
Cropping Systems	1	16	8	24	-	3	3	16	11	27				
Crop Diversification	-	10	0				5	10						
Integrated Farming														
Micro Irrigation/Irrigation														
Seed production	2	28 1	6	44	7	3	10	35 1	9	54				
Nursery management	2	201	0		,	5	10	551	,	51				
Integrated Crop Management														
Soil and Water Conservation														
Integrated Nutrient Management														
Production of organic inputs														
č 1														
Others (pl.specify) Horticulture														
a) Vegetable Crops														
Production of low value and high volume crop	1 19		-	19	2	-	2	21	-	21				
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	1	12	8 20		6	4 10		18	12	30				
Management of young	1							-		-				
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	1	15 15	5	30	1	1	2	16 1	6	32
Processing and value addition										
Others (pl.specify)										
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	1 -		9	9	-	22	22	-31	31	
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility										
Management										
Soil fertility management	1	14 12	2	26	2	1	3	16 1	3	29
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 Managament										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	22	14	36	2	2	4	24	16	40
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal										
products										
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	2	-	40	40	-	4	4	-	44	44
Gender mainstreaming through										
SHGs										
Storage loss minimization										
techniques										
Value addition										
Women empowerment										
Location specific drudgery										
production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its	1	21.1	0	20	4	2	(25.2	0	15
maintenance	1	21 1	8	39	4	2	6	25 2	0	45
Installation and maintenance of	19		21	30	4	6	10	13	27	40
micro irrigation systems	1 7		<i>L</i> 1	50	-	0	10	15	<i>21</i>	
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)Usage of pulse	1.00		2	22	1	2	4	21	(27
harvester	1 20		3	23	1	3	4	21	6	27

Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides	1	6 23	29	3	3	6	92	6	35
Others (pl.specify)									
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			Ī						
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	1	8 13		21	-	5	5	8 1	8	26
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)Creating awareness about agriportal	1	- 14		14	- 26		26	- 4	0	40
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	17	190	214	404	32	85	117	222	299	521

		No. of Participants												
	No. of		General			SC/ST	punto	G	rand To	otal				
Area of training	Cours es	Mal	Fema	Tot	Mal	Fema	Tot	Mal	Fema	Total				
	65	e	le	al	e	le	al	e	le	Total				
Crop Production														
Weed Management	1	26 1	4	40	12	8	20	38 2	2	60				
Resource Conservation	1	21.1	4	35	3	4	7	24 1	8	42				
Technologies Cronning Systems	2	61 2	0	81	4	4	8	65 2	4	89				
Cropping Systems	2		32		4	4								
Crop Diversification		41 97	32	73	3 12	/	12	46s	39	85				
Integrated Farming	1			16		1	3	10	9	19				
Micro Irrigation/Irrigation	1	18 1		30	2	1	3	20 1		33				
Seed production	5	80	91	171	12	9	21	92	100	192				
Nursery management	1	10	16	20	1		-	14	20	24				
Integrated Crop Management	1	13	16	29	1	4	5	14	20	34				
Soil and Water Conservation	1	19	21	40	6	6	12	25	27	52				
Integrated Nutrient Management														
Production of organic inputs														
Others (pl.specify) Importance of FFS	1	12	9 21		6	4 10		18	13	31				
Horticulture														
a) Vegetable Crops														
Production of low value and high volume crop	1	20.2	3	43	4	7	11	24 3	0	54				
Off-season vegetables	1	15.2	4	39	4	3	7	192	7	46				
Nursery raising	1	18 1		33	4	3	7	22 1	8	40				
Exotic vegetables	1	14 1		33	4	5	9	18 2	4	42				
Export potential vegetables	1	21	15	36	1	3	4	22	18	40				
Grading and standardization	1	21	18	39	3	2	5	24	20	44				
Protective cultivation	-		10			_								
Others (pl.specify) Importance of growth regulators	2	56 3	4	90	7	4	11	63 3	8	101				
b) Fruits														
Training and Pruning														
Layout and Management of Orchards														
Cultivation of Fruit	1	12	8 20		6	4 10		18	12	30				
Management of young														
plants/orchards	1	18 1	7	35	2	4	6	20 2	1	41				
Rejuvenation of old orchards														
Export potential fruits	1	32	-	32	6	-	6	38	-	38				
Micro irrigation systems of orchards														
Plant propagation techniques	1	16	15	31	4	3	7	20	18	38				
Others (pl.specify)Integrated	1	13 1	7	30	4	6	10	17 2	3	40				

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

weed management in banana										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental										
plants	1	22 1	8	40	3	2	5	25 2	0	45
Propagation techniques of										
Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management	1	191	D	29	2	3	5	21 1	3	34
technology										
Processing and value addition										
Others (pl.specify)										
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	1	16 1	6	32	2	4	6	18 2	0	38
Integrated nutrient management	1	23 1	3	36	4	7	11	27 2	0	47
Production and use of organic										
inputs	1	0	1 1	10			_	11	10	~ 1
Management of Problematic soils	1	8	11	19	3	2	5	11	13	24
Micro nutrient deficiency in crops	1 32		8	40	2	2	4	34	10	44
Nutrient use efficiency	1	18	21	39	1	2	3	19	23	42
Balanced use of fertilizers	Ŧ	10			-	-		17		
Soil and water testing	1	12	22	34	_	_	_	12	22	34
Others (pl.specify)	1	14		51				12		J 1
Livestock Production and										
LIVESINCE I FULLUUTI AILU										

Management										
-										
Dairy Management	1	10.1	1	20	2	2	(01.1	7	20
Poultry Management	1	18 14	•	32	3	3	6	21 1	7	38
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	17	19	36	5	3	8	22	22	44
Production of quality animal										
products										
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										
Gender mainstreaming through										
SHGs										
Storage loss minimization										
techniques										
Value addition										
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	2	42 34	ł	76	5	5	10	473	9	86
addition										
Post Harvest Technology										
Others (pl.specify)										

Plant Protection										
Integrated Pest Management	6	104	99	203	11	10	21	115	109	224
Integrated Disease Management	2	33	27	60	4	6	10	37	33	70
Bio-control of pests and diseases	1	19	17	36	3	4	7	22	21	43
Production of bio control agents	-						,			
and bio pesticides										
Others (pl.specify)Seed treatment	1	14	12	26	7	5	12	21	17	38
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				1						
Apiculture										
Others (pl.specify)Awareness	4	1 7 1		20	_	4	6		-	20
about BT Cotton	1	17 1	•	30	5	4	9	22 1	7	39
Capacity Building and Group										
Dynamics										

Leadership development	1	17 2	2	39	2	2	4	19 2	4	43
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital	1	7	8	15	1	-	1	8	8	16
Entrepreneurial development of farmers/youths	1 24		4	28	3	-	3	27	4	31
Others (pl.specify)Marketing	3	68 2	5	93	3	6	9	713	1	102
Agro-forestry										
Production technologies	2	39 4	1	80	2	3	5	414	4	85
Nursery management										
Integrated Farming Systems	1	12	13	25	2	1	3	14	14	28
Others (Pl. specify)										
TOTAL	61	1137	908	2045	174	167	341	1311	1075	2386

		No. of Participants										
	No. of		Concert		110.0		pants			-1		
Area of training	Course	N/-1	General	Tata	Mal	SC/ST	Tata	Mal	Frand Tot			
	S	Mal e	Femal e	Tota l	Mal e	Femal e	Tota l	e	Femal e	Tota l		
Nursery Management		C			C	C	-	C	č	-		
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 1		10	17	27	2	2	4	12	19	31		
Sericulture												
Repair and												
maintenance of farm												
machinery and												
implements												
Value addition	2	19	2	21	12	16 28		31	18 49			
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												

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

Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)Awarenes s about Agri portal	1	-	9	9	-	31 31		-	40 40	
TOTAL	4	29	28	57	14	49	63	43	77	120

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

	No. of	No. of Participants									
Area of training	No. of Courses		General			SC/ST		G	rand Tot	al	
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Nursery											
Management of	11	7	21	38	3	2	5	20	23	43	
Horticulture crops											
Training and pruning	11	5	38	53	1	2	3	16	40	56	
of orchards											
Protected cultivation of vegetable crops	11	2	21	33	1	4	5	13	25	38	
Commercial fruit production	19		12	21	4	3	7	13	15	28	
Integrated farming	2	35	34	69	3	11 14		38	45 83		
Seed production	5	77	67	144	17	14	31	94	81	175	
Production of	12	4	21	45	4	2	6	28	23	51	
organic inputs	1 2	4	21	43	4	Z	0	28	23	31	
Planting material	11	9	14	33	2	3	5	21	17	38	
production	11					5	5		17		
Vermi-culture 1		17	-	17	-	-	-	17	-	17	
Mushroom											
Production											
Bee-keeping											
Sericulture											
Repair and											
maintenance of farm											
machinery and											
implements											
Value addition											
Small scale processing	12	1	19	40	3	5	8	24	24	48	
Post Harvest	1 1	(14	20	(0	14	22	22	1.4	
Technology	11	6	14	30	6	8	14	22	22	44	
Tailoring and											

Stitching										
Rural Crafts										
Production of quality animal products	18		12	20	2	3	5	10	15	25
Dairying 1		18	22	40	5	2	7	23	24	27
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1	17	13	30	2	4	6	19	17	36
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)Seed colouring technology	13	8	14	52	4	4	8	42	18	60
TOTAL	20	343	322	665	57	67	124	400	389	789

	NL C	No. of Participants										
Area of training	No. of Courses		General			SC/ST	•	Grand Total				
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total		
Productivity												
enhancement in field	11	9	2	21	-	-	-	19	2	21		
crops												
Integrated Pest												
Management												
Integrated Nutrient												
management												
Rejuvenation of old	12	4		24				24		24		
orchards	12	4	-	24	-	-	-	24	-	24		
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	13	1	-	31	-	-	-	31	-	31		
Management in farm												
animals												
Livestock feed and												
fodder production												
Household food												
security												
Any other												
(pl.specify)	12	1	_	21	_	_	_	21	_	21		
Sericulture										-1		
Total	4	95	2	97	_	_	_	95	2	97		

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

No. of Participants No. of Area of training SC/ST **Grand Total** General Courses 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.F. Training programmes for Extension Personnel including sponsored training programmes (off campus)

7.G. Sponsored training programmes

	ponsoreu training pro	No.No. of ParticipantsofGeneralSC/STGrand Total											
S.No.	Area of training	of		General			Grand Total						
5.110.	Area or training	Cour ses	Male	Femal e	Total	Male	Femal e	Total	Male	Femal e	Total		
1	Crop production and management												
1.a.	Increasing production and productivity of crops	3	27	3	30 -		-	- 27		3	30		
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												
4	Production of Inputs at site												
5	Methods of protective												
6	cultivationOthers(pl.specify)Waterconservationtechnologies	3	30	-	30 -		-	- 30		-	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										
10.e.	Others (pl.specify)										
11.	Home Science										
11.a.	Household										
11.a.	nutritional security										
	Economic										
11.b.	empowerment of										
	women										
11.c.	Drudgery reduction										
11.C.	of women										
11.d.	Others (pl.specify)										
10	Agricultural										
12	Extension										
	Capacity Building										
12.a.	and Group										
	Dynamics										
	Others										
12.b.	(pl.specify)Seed	5	22 52		74	12 14	1	26	34	66	100
	production										
	Total	11	79	55	134	12	14	26	91	69	160

Details of sponsoring agencies involved 1. NABARD 2. NADP

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

		No. of				No. c	of Partici	pants			
S.No	Area of	Course		General			SC/ST		G	rand Tot	al
•	training	S	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota
		6	e	e	l	e	e	l	e	e	l
1	Crop										
	production										
	and										
	managemen										
	t										
1.a. C	ommercial	3	18 7		25	_	_	-	18 7		25
	floriculture	5	10 /		23				10 /		25
1.b. Co											
	fruit										
	production										
1.c. C	ommercial										
	vegetable	6	9	17 26		3	6	9	12	23 35	
	production										
1.d. In	tegrated										
	crop	6	14 16	5	30	2	3	5	16 19)	35
	management										
1.e. Or	g anic										
	farming										
1.f. Ot	hers										
	(pl.specify)										

2	Post harvest technology								
	and value								
	addition								
2.a. V	alu e addition	6	19 15	34	3	3	6	22 18	40
2.b. C	Others (pl.specify)								
3.	Livestock								
	and fisheries								
3.a. D									
	farming								
3.b. C	1								
2 9	fish culture								
3.c. S									
2.4	goat rearing								
3.d. 3.e. P	Piggery								
5.e. P	ou ltry farming								
3.f. O									
J.I. O	(pl.specify)								
4.	Income								
	generation								
	activities								
4.a. V									
4.1. 5	composting								
4.b. P									
	of bio-								
	agents, bio- pesticides,								
	bio-fertilizers								
	etc.								
4.c. R									
	maintenance								
	of farm								
	machinery								
	and								
	implements								
4.d.	Rural Crafts								
4.e. S		12	11 45	56	6	8	14	17 53	70
4.f.	production Sericulture	6	21 10	31	2	2	4	23 12	35
4.1. 4.g. N		U	21 IV	31		2	4	23 12	33
т.д. 1	cultivation								
4.h. N									
	grafting etc.								
4.i. Ta	ailoring,								
	stitching,								
	embroidery,								
	dying etc.								
4.j. A	g ril. para-								
	workers,								
	para-vet								

	training										
4.k. O	thers										
	(pl.specify)										
5	Agricultural										
	Extension										
5.a. C	ap acity										
	building and										
	group										
	dynamics										
5.b. O	others										
	(pl.specify)										
	Grand Total	39	92	110	202	16	22	38	108	132	240

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including activities of FLD programmes)

Nature of Extension	No. of		of Particij (General)		No.	of Particip SC / ST	oants		of extens	
Programme	Programmes	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	28 1122	Male	1008	2130	84	73	1 0tal	21	6	27
Kisan Mela	3	468	256	724	37	28	65	14	3	17
Kisan Ghosthi	5	400	230	124	57	20	05	14	5	1 /
Exhibition										
Film Show	23	312	187	499	31	12	43	16	3	19
Method		512								
Demonstrations	48 940		610	1550	83	73	156	44	7	51
Farmers						10.15		-	_	
Seminar	2	53	21 74		27	18 45		8	3	11
Workshop										
Group meetings	6	63	27	90	16	9	25	2	2	4
Lectures										
delivered as	12 55		15	70	65	8	73	2	3	5
resource	12 55		15	/0	65	8	/3	2	3	2
persons										
Newspaper	92									
coverage										
Radio talks	14									
TV talks	3									
Popular articles	21									
Extension	19									
Literature	17									
Advisory	72	56	7 63		13	4 17		4	3	7
Services									_	
Scientific visit	92 61		13	74	18	6	24	6	3	9
to farmers field										
Farmers visit to	923 515		224	739	110	63	173	7	4	11
KVK Diagnostic										
visits	43	33	7 40		7	4 11		1	2	3
Exposure visits	3	180	62	242	41	16	57	4	2	6
Ex-trainees	5	100	02	242	41	10	57	4	2	0
Sammelan										
Soil health										
Camp										
Animal Health										
Camp										
Agri mobile										
clinic										
Soil test	16 212		116	120	42	27	70	3	2	5
campaigns	16 312		116	428	42	37	79	3	2	3
Farm Science										
Club	7 172		81	253	16	4	20	-	-	_
Conveners	/ 1/2		01	233	10		20			_
meet										

Self Help										
Group										
Conveners										
meetings										
Mahila										
Mandals										
Conveners										
meetings										
Celebration of										
important days										
(specify)										
Any Other										
(Specify)										
Total	1415	4287	2619	6906	525	347	872	130	40	170

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	Black gram &Green gram	VBN-4,VBN-5 VBN-3,VBN-2	20.9	94	132780	170
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds	Velimasal			0.11	5600	5
Fiber crops						
Forest Species						
Others (specify)						
Total				21.05	138380	175

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						
Ornamental plants						
Medicinal and Aromatic						
Plantation	Coconut	East coast tall		3608	90200	133
Spices						
Tuber						
Fodder crop saplings	Cumbu napier & Guinea grass	CO-4 CO-3	610	00	30500	252
Forest Species						
Others(specify)						
Total				64608	120700	385

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	Vermicompost	700	3500	6
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others (specify)	Coir pith compost	1000	5000	10
Total		1700	8500	16

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 etc.)
Date of start - 2008
Periodicity - Quarter
Number of copies distributed - 4500
(B) Literature developed/published

Item	Title	Authors name	Number
Research papers			
Technical reports			
News letters	Puthugai	Dr.P.Kalaiselvan & Dr.P.Chinnaiyan	500
Technical bulletins			
Popular articles			
Extension literature			
Others (Phamplets)	Red gram transplanting	Dr.P.Chinnaiyan and Dr.R.Suresh	1000
	Vermicompost production	S.Gopal and Dr.P.Chinnaiyan	1000
	Latest varieties and technologies	Dr.S.K. Natarajan and Dr.P.Chinnaiyan	500
	(2010) in Agriculture		
	Latest varieties and technologies	Dr. V.Krishnamoorthy and	500
	(2010) in Horticulture	Dr.P.Chinnaiyan	
	Soil testing	Programme Cordinator	1000
	Designer seed	Dr.S.Kavitha and Dr.P.Chinnaiyan	1000
	Integrated Farming System	Dr.S.K. Natatrajan and Dr.P.Chinnaiyan	1000
TOTAL			6500

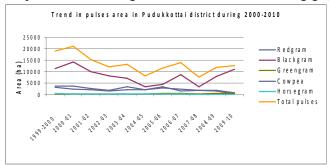
10.B. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
Ni	1	Nil	Nil

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).

Case 1: Promotion of Pulses Cultivation in Pudukkottai district

Pulses were cultivated in Pudukkottai district at around 9000 ha which w as about 1.5 % of the state pulses area during 2008-09. There exists a big g ap always between the production of pulses and the



demand for pulse which resulted in the price hike especially d uring July and A ugust. Since the price hike was a big issue to t he state government, pulse prom otion pro gramme w as started in the Puduk kottai district b y t he KVK along with line departments to i ncrease the area under pulses in the dis trict. Our KV K with its full s trength of technical expertise is actively involving in pro motion of pulse s in the d istrict from its inception i n the y ear 2000 through

specialized schemes like, seed village scheme, IAMWARM activities etc. KVK, Pudukkottai works in the line of increasing the area under pulses and to harness the scope of increasing the production by improving the yield through frontier production techno logies by precision agr iculture, micro irrigation, foliar spray of DAP proper fertilization etc.

Crops	1999-00	2000-01	2005-06	2006-07	2007-08	2008-09	2009-10
Red gram	3,737	3,787	3,299	1,691	1,951	1,633	197
Black gram	11,423	14,266	4,564	8,700	3,478	7,886	11,064
Green gram	344	282	456	438	224	403	409
Cowpea 3	,050	2,453	2,917	2,420	1,937	1,796	892
Horse gram	405	189	378	389	116	65	17
Total pulses	18,959	20,977	11,614	13,816	7,706	11,718	12,579

Trend in pulses area in Pudukkottai district

Intervention

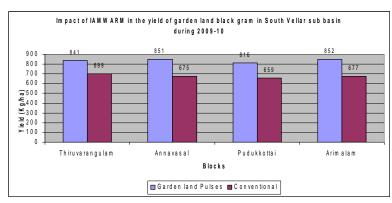
KVK, Pudukkottai intervened in the traditional cropping pattern of the district through seed production in KVK farms, organizing seed village trainings, distribution of pulses seeds, training to farmers, training to field functionaries etc.

Seed production of black gram varieties like VBN - 3, VBN - 4 and VBN - 5 is being taken up in KVK farm s and around 1.25 t of these varieties were produced for distribution to far mers for further seed production in farmer's field under seed village scheme during Rabi 2009 - 10. Seeds of VBN (Bg) - 4 & 5 w ere distributed to other district through KVKs in Villupuram, Sivag angai and Kanyakumari districts for further multiplication at their end.

In seed village schemes, 1836 kg of black gram (VBN 3, 4&5) seeds were distributed at 50 % subsidized rates to the farmers and three seed grower's trainings at critical phases of the crops were

given for each village. The scheme achieved coverage of 91.8 ha in 3 villages and about 230 farmers were trained for production of quality seeds at their own farm.

Another major component of K VK in tervention is implementation of IAMWARM project, under which 8100 kg of black gram seeds (VBN 3 & 4) have been distributed in garden land and rice fallow lands of S outh Vellar basin in P udukkottai district. An area of 4 05 ha was covered and 629 farmers were benefited in the year 2009-2010.



Effect of the technology/ process / results/impact

As a result of continuous KVK intervention as ICA R entity, during 2009-2010, the area u nder pulses in Pudukkottai dist rict increased by 30 per cent over last year. With precision agricultural technologies recommended by the KV K scientists, the far mers could achieve a productivity of 7 00 kg/ha especially in b lack gra m as garden land crop.

multiplied from the seed village scheme were further distributed among the pulse growers in nearby villages through KVK. The KVK intervention made the farmers to cultivate pulses as a garden land crop rather than growing as rai nfed crop in marginal lands p reviously. Advanced p recision technologies like lin e s owing, fertili zation, fol iar spray of DAP etc, achieved th e ob jective of increasing the area under pulses and increasing the pulses production in the district.

In order to harness the sy nergy between technologies and community participation, special emphasis was g iven to build far mers capacity to produce quality seeds. Far m science clubs were organized in the pulse growing areas to promote the cultivation of improved pulses varieties. Training on improved production techniques and st orage aspects of pulses have been organized in selected villages from all parts of the district. About 2150 farmers were given training. Two special trainings have also been organized to 60 agricultural officers.

Commodity groups were formed in which few pulses growers were making a group and they register th emselves as se ed grower s. They procure pulses produced in the d istrict by paying an incentive of Rs.1/kg above the market rate from the farmers.

A case of women pulses grower in Thiruvarangulam block

Sakuntala (50) of Poovaraskudi village in Thir uvarankulam block of Pudukkottai district is primary school educated. Being a member of local SHG, she can take up the suggestions given by the KVK, through various progra mmes like seed villag e, IA MWARM and ot her trainings; she took up agricultural activities of her own. She cultivated Vamban 3 black gram in 2 acres. Previously she did not adop ted proper spacing and op timum plant p opulation of 33 plants p er square metre. KVK Pudukkottai intended to ta ke up the issue of targ eting far m w omen to di sseminate production technologies that can su stain the pulses production. We trained more number of w omen farmers specially in seed village sche mes and g ave more rigorous training on pulses production and specialised techniques like line sowing, D AP spray for im proving pod setting, ap plication of bio fertilisers and super posphate etc. As a result Sakuntala obtained a yield of 730 kg of VBN 3 (bg) from her two acres indicating a yield rate of 913 kg/ha. Previously she obtained a maximum of 520 kg from the same piece of land. Thus KVK played a catalytic role in improving her standard of living by enhancing the productivity and there by the economics of pulses cul tivation in garden lands of Thiruvarankulam block.

1.	Name of the farmer	:	A. Sakuntala				
2.	Village - Block - District	: Po	ov	ovarasagudi-Thiruvarngulam-Pudukottai			
3.	Soil type	:	Clay	loam			
4.	Source or irrigation	:	Tank				
5. Prev	ious crop particulars	: Pad	dy				
6. Varie	et y	:	VBN	-3			
				Before KVK intervention	After KVK intervention		
7.	Method of sowing		:	Broad casting	Line sowing		
8.	Plant population and spacin	g	:	No proper spacing	30 X 10 cm		
9.	Fertilizer application		:	No application	25:50:25 kg NPK/ha		
10.	Yield : Grain yield (Kg/ha))	:	650	913		
11.	Water use efficiency (Kg/ha	a cm)	:	-	52.1		
12. BC	R		: 1.3		2.2		
13.	Interpretation :	Super applic Pulses	40% yield increase previous y ears m ight be due to Super phosphate and bio fert ilizer application.Introduction of Lin e Sowing in g arden land Pulses crops re duce the weed infestation, and in crease the yield by 40 %				

The result

The efforts made by KVK by implementing seed village programme, IAMWARM project and numerous trainings, esp ecially trainings to far mers on pulse production at their own localities (on farm training) is yielding encouraging results. There was a very good response from the farmers' side too and they realised their responsibility which resulted in the increased area under pulses. During 2008 -09, an area of 11,718 ha has been covered under pulses. Among the pulses, black gram (7,886 ha) was the major crop followed by cowpea (1,796 ha), red gram (1,633 ha) and green gram (403 ha). Due to the continuous efforts taken by the scientists of KVK and farmers area under pulses in creased by 52 % from 7706 ha in 2007-08 to 11,718 ha in 2008-2009 and by 63 % in 2009-2010 (12579 ha) in Pudukkottai district. This result has evolved a cautious lesson in the minds of KVK members, that the increasing trend in area under pulses should be maintained in coming years.

Case 2: Commodity Group Approach for Higher Returns

Thiru.S.Veerasamy son of Thiru.Subbaiah r esiding at Venk itakulam village, Thiruvarnkulam block, Alangudi taluk, Pud ukottai district i s a s mall farmer having g arden land of four acres. The main source of irrigation is bore well. He completed his school studies upto 8th standard in the same village during 1980. During the study period, after the s chool days, he was accompanying his fath er and witnessing the agricultural operations. Most of the time he used to hear t he radio programmes during day and night times. Apart from the entertainment programme he was hearing the agricultural

programmes al so and g ained know ledge on n ew technologies in agriculture. Later on, he was the contact farmer to the National Pulses Research Centre, TNAU, Vamban which is very nearer to his place.

After the establishment of Krishi Vigyan Kendra, Vamban during 2002 he became a contact farmer, con vener and a lso scientific advisory committee me mber of the Krishi Vigyan Kendra, Vamban. He was i nvolving in training programmes, method de monstrations, group discussion. He was the main person involves in assessing the resources and the requirements for his village through Participatory Rural Appraisal. As a knowledgeable, innovative farmer with forward thinking to adopt new technologies, he had training on "Alternative Agricultural Crops" with KVK, Vamban during March, 2008. Though he is an innovative farmer he did not had the confidence to take up maize in his land. To make him more confident in raising maize, CoHM5 hybrid was demonstrated in his field in an area of 1.25 acres during 2008 by KVK, Vamban.

All the technologies s tarting from s eed, se ed treatment with fung icides, biofert ilzers, wide ridges and furrow formation and spacing were adopted, during first week of October 2008. Further he convinced the fellow far mers for maize production in his village as **Compact Block** basis. KVK, scientist to make him to get higher income from maize cultivation facilitated in formation of "**Maize Commodity Group**" consisting of 16 likeminded farmers. The group approach is most beneficial, in accessing fa cilities a vailable in the line d epartment i.e. Agricul tural M arketing. The Commodity Group has joint bank account in Canara bank, Venkitakulam for transaction. Monthly Rs.50/member is being co llected and d eposited in the bank account as si milar to save capital. After sometime the members were assured on getting credit from the bank.

After t he h arvest, t he produce of the commodity group are pooled togeth er. Co mmodity Group was facilitated by KVK scientist for accessing the transport facilities available exclusively for transport of agricultural produce since the transport cost in the market was high. The existing rent for vehicle hire charges at Agri Business Centre is Rs.1000/ day of 24 hours. The produce can be stored in the godown facilities provided by **Agri Business Centre**, Department of Agri cultural Marketing. Since the members of commodity group did not have storage facilities on their own, the produce were stored with free of cost and the group members can sell their produce whenever they desires in order to obtain the maximum price of the market. The farmers can also use the drying yard available with Agri Business Centre without any cost.

The Commodity Gro up was l inked with **DEMIC**, Ta mil Nadu A gricultural U niversity by KVK, Vamban. All the members are receiving the daily state level prices of maize through SMS in their cell phones. Green Peace an NGO at P udukottai was per mitted by Govt of T amil N adu to procure maize in Pudukottai district at A gri Business Centre on the basis of DEMIC-TNAU and i t was ach ieved. Now, all the members are happy, the total family income h as raised, many other farmers in the village are now having stinging eyes on Maize Commodity Group either to for mulate new groups or li keminded farmers to become a member of the existing Maize Commodity Group. Possibilities of est ablishing A gribusiness Centre in their v illage itself is b eing examined by the department of Agriculture.

In the changing scenario of a gribusiness world, Thiru. S.Veera samy – alway s with Green Towel in his shoulde r - Farmer friendly – Innovative farmer reflects on KVK values – Training, Adoption of new techno logy and **Empowering the Farmers' stake** through **Commodity Group - Social Capital Mobilization** in Pudukottai district.

Case 3: Women Empowerment through Rural Enterprise

Mrs. R.Pragathambal 'farm women' completed her school studies in Manjanviduthi village of Pudukottai district. At age of 23 s he got married in the nearby village Kothakott ai of Pudukkottai district where ICA R-KVK, Vamban, Pudukottai is having intervention. She is having one son and one daughter. Her husband is a small farmer owning one acre land an d was growing crops durin g north east monsoon season (Octob er to December) as rainfed crops. Total income of the family is inadequate to her family. M rs.R. Pragath ambal got the awareness of training on "Mushroom Production for Rural Entrepreneurship" through mass media news of KVK, Pudukottai.

Mrs. R.Pragathambal trained at Krishi Vigyan Kendra, Pudukottai in **"Hands on training for three days on Mushroom Production"**. She learned the art of business and skill starting from erection of growing shed, raw materials to be used, processing of raw material, preparation of beds, maintenance of be ds, maintaining t emperature and hu midity, controlling p ests and diseases and harvesting methods. She started trial of mushroom production with the thatched shed available in her home and the feed back of her activity created confidence on mushroom production. Immediately she scaleup her business. She erected one new thatched shed near the house by availing **loan facility of self help group fund** facilitated by KVK,Vamban. She collected t he information re garding the availability of spawn bottle, its price, when to buy and where to buy.

After six months she learned the skill of spawn production and purchased the laminar air flow chamber an d auto clave. La ter on started producing sp awn on her own. S he planned for c yclic production in which when to prep are b eds. She w as trained to assess the market potential of the district headquarters through the intervention of KVK. It was found that the mushroom available in the district headquarters was supplied from hilly districts. The price of one kilo gram was Rs. 150/-(Button mushroom).

She started the mushroom producti on (Oyster and b utton mushroom) in h er shed to the capacity of 5kg per da y. The marketing was done by the sel f help group stall located in the district head quarter. The mushroom was sold @ Rs. 80/kg i.e. Rs.400/day. Total harvesting days per month was planned to 25 days and the gross inco me touched to Rs.10000/- per month. The expenditure on spawn and other production cost including depreciation and interest was Rs.5000/- per month and the net profit was Rs.5000/- per onth and Rs.60000/- per year respectively.

In her opinion, the farm women **must have determination and clear cut objectives in life**. They should be prepared to work hard with sincerity, appreciate the dignity of labour and quality of product.

Mrs. R.Pragathamabal is of the view that one who can tak e **moderate risk and has attitude** of sincerity, devotion and commitment to work is bound to get success. The country really needs rural women who opt for entrepreneurial carrier in industry driven agriculture. In this way, they contribute to create more employment positions rather than seeking employment.

In her own case Mrs R.Pragathambal su ms up that she has extreme sa tisfaction and zero regrets. As a social obligation she offers to extend all support to the budding entrepreneurs.

The p articipation of wo men in v arious ec onomic d evelopment progra mmes w ill hel p in solving various social, economical and political problems. The problem of employment and poverty can be controlled by intensifying efforts for generating family income.

Yes, Mrs.R.Pragathambal, a far m women, hails from a village strugg led in her family in the early years of her life is a "**Model farm women for Women Empowerment**" recognized by Awards. Further documented Mass Media are the medals of her achievement and f ood Processing Industry in India.

B. Success Stories

1. Story of a professional bee keeper : From country side honey collector to a self sustained successful entrepreneur

"Honey Bees are angels of for ests" s ays Mr Tamilselvan (47) of Anavayal vil lage in Pudukkottai di strict in Tamil N adu. He is on e among the 35 who established b ee colonies after getting motivated by KVK, P udukkottai and traine d successively at T amil N adu agricultural University. Like him around 125 farmers, farm women and rural youths attended three such trainings offered by the KVK. They were distributed bee hives on 75 % subsidized rates. So me of them are worth to mention here since they have grown to a status of successful bee k eepers now adays. Mr.

Tamilselvan i s such on e, a le ading bee keeper residing at Ann avayal villag e of Alangudi taluk owning 2 acres land. Though he h ad attended several training programmes at th is centre, he was amused by bee keeping. After he had undergone training at KVK, Vamban, he was sent to Tamil Nadu Agricultural University, Coimbatore for an int ensive 15 d ays training during D ecember 2001. He came with single bee colony from the training and established the same in his own farm. Now he owns 50 co lonies co mprising of 3 species of hon ey bee s and extracting pure honey from the ese colonies. Apart from honey bee se lling, he is also making bee h ives and bee stand for sale. Sel ling new colonies to fellow trainees has become a regular work. Upon request and payment, he is giving training to ne w bee keepers and NGOs. M any farm women under hi s gu idance have started beekeeping at their farm houses.

Tamilselvan, hi therto was a trainee of KV K, Vamban beca me a trainer c um entrepreneur within few years. Now he is recognized as a professional beekeeper in Pudukko ttai district and his economic and social status is i mproved well b ecause of honey bee keeping. The Project officer, District Rural Development Agency, Pudukkottai visited his apiary unit and appreciated his activities. He started his *Banu Bee Park* at his village where he offers training and supplies bee hives along with bees to the trainees. Through training and consultancy he receives a regular income of Rs. 20,000 per annum. Far mers across the state from d istricts like Erode, Coim batore, Pollachi, T irupur, Tiruvannamalai and Villupura m v isit his b ee park and get a mused by the entrepreneurial activity Tamilselvan is doing in his field. He is planning to purchase two acress of dry land adjoining his farm to i ntensify be e keeping in a rge sc ale. Hi s fanaticism and en thusiasm b rought him "Best Entrepreneur in Bee Keeping" award by Film Federation of Tamil Nadu.

Tamilselvan started his career as honey collector of naturally grown honey combs by roaming across in the country side. He was moved when his fellow men fired the bee colon ies and the adults and larvae get wounded and died of fire injuries. This incident actually instigated him to study more on scientific honey bee rearing and honey collection without disturbing the bees.

By 2002, he started his business with a single bee colony and now he possesses as many as 50 in his ow n. He also has around 1000 bee colonies being installed in various locations in the district and the state in the forest and horticultural plantations which he considers that honey from the tree crops more organic.

Tamilselvan prep ares h oney bee b oxes and sells to the d emanding farmers @ Rs 750 p er empty box and @ Rs 15 00 per box with grown b ee colonies. Also he su pplies bees on orders fro m various parts of Tamil Nadu. He sells a queen bee @ Rs. 400 to those demands. If the colony possess more drones @ >10% of the bee population, he assumes that the queen bee became older and plans to discard th em. That much expertise he h as earned fro m the trai nings and successive educational programmes fro m the University. He has learnt t he art of cap turing the ru naway bee colonies, creation of new colonies, collection and rearing of queen b ees and all aspects of honey bee rea ring and h e teaches th ese techniqu es to the farmers, farm wo men, N GOs, and rural y ouths across t he states, the number may reach at least few hundreds. Manonmani, a marginal farm owner in vadakadu village, Rajarethinam - a Teacher in Mankadu village and rural youths like Ilayaraja and Srimurugan are some of those Tamilselvan trained and n ow they are pract icing bee k eeping in a gr adually increasing scale.

Tamilselvan maintains a bee p ark in w hich he grows all kinds of flo wering trees, bushes, shrubs, tendrils, plants etc for facilitating the colonies for better nectar collection. He believes more in growing flowering trees since these trees are free from pesticide and other chemical pollution and the honey will be more organic in nature.

"Last year I earned an amount of Rs 3 lakhs from honey bee rearing" says Tamilselvan. He is more appreciative about the farm university in the state. "I must be grateful to Ta mil Nadu Agricultural University, Coimbatore which gave me a visiting card as a successful bee keeper from which my life style had chang ed towards naturally aligned and my prospects t urned to be more successful earner from honey bee rearing" says Tamilselvan. Tamilselvan showed us a fancy honey bee box made of teak wood as a model for his dream commitment. "I will present 100 of this type of honey bee boxes to my daughter as her marriage gift (*seethanam* in Tamil)". What a novel way of gifting a lovely daughter!

2. Vermicomposting

Mrs.A. Kanagavalli is a farmer having 5 acres of wetland at Vamban, Pudukkottai. She has attended several one day trainings at Remandated KVK, National Pulses Research Centre, Vamban. She has also undergone a special training on "Vermi-composting and Mushroom cultivation" at this Centre. This training was conducted for a period of 10 days e specially for empowering women towards entrepreneurship development. Mrs.Kanagavalli, due to the intervention of KVK has started vermin-composting unit at her farm. Now she is doing vermin-composting in three cement tanks (6 x 5 x 5') and producing 300 kg of vermin-castings every month. She is selli ng vermin-castings in attractive pockets to the people of Pudukkottai for ornamental plants. Ban ana grow ers of nearby village a re also demanding vermin-castings and she is now expanding the vermin-composting yard to meet the growing demand. She is hopeful of succeeding with this business and concentrating more on vermin-composting rather than agriculture. As a good will gesture, she has also supplied 3000 worms at free of cost to the Self Help Group members of Pudukkottai.

3. Pepper in plains

Yes. It is a reality. Shri.K. Thangaiyan is one of the progressive farmers, aged about 45 years residing at Pattipunchai, Vadakadu owning 3 acres of coconut grove. A glut in the market for coconut badly hurt the financial position and to compensate the loss, he searched for a new alternative crop. He was enthral led to see pepp er in K erala and its in come to the f armers. He and other c oconut growers wanted to lear n the pepp er cultiv ation practices and consulted the scientists of KV K, Vamban. Their felt need was fulfilled through a training programme on "Pepper cultivation" at KVK, Vamban. So far, five trainings have been conducted on this aspect for the benefit of the farming community. With a strong motivation, he purchased pepper cuttings from Kerala @ Re.1 per cutting and planted near the base of different trees like Coconut, Jack, Theprosia, Neem, Teak and Erithrina. Among the trees, he could identify Coconut is the best one for pepper to trail on the tree trunk. Apart from this, the yield of pepp er was more pronounced in coconut garden where microclimate is more favorable. It could be trailed up to 10 feet and started yielding from first year onwards. He also demonstrated that ladder could be used up to 10 feet for climbing the coconut trees without damaging the pepper vines. Now he has started harvesting more pepper berries as full bearing would start from third year onwards (i.e. up to 2kg/vine/ year). After processing, he could get 1.5 kg of dried pepper. He used to sell the dried produce to the local market @ Rs. 200 / kg. In a coconut garden, he can accommodate 75 pepp er plants/ acre which would earn him an income of Rs 20,000. He had t ried with different varieties like Karimunda, Panniyur 1, 2, 3, 4 & Panniy ur 5. A mong them, Panniyur 1 and Karimunda are the best suited varieties for plains under shade. His pepper garden is a model to others and he has demonstrated that a minimum of Rs 25,000/ ha can easily be obtained in a year.

4. Nursery man

Shri.S.Thinakarasamy (48 years), son o f Shri.S.Singaram residing at Kooliyankadu, owns 3 acres of wetland and 3 acres of dry la nd. With a str ong desire for learning the latest techniques in agriculture and horticulture, he has attended se veral KVK training program mes. With a view to translate the skill and knowledg e gained during the training programme, he started a nursery on a small scale. In pursui t of this, h e constructed a polyhouse in h is far m and star ted propagation of ornamental plan ts like Duranda, Crotons, Jasm ine and Cole us and supplied t o Pudukottai to wn. Meanwhile, he was ap proached by far mers of nearby vil lages for se edling / graf ts of fruit c rops. Grafting and layering skill learnt through KVK intervention had sown the seeds of self confidence and he had started commercial sale of seedlings particularly Sapota, Guava, Cashew and Jack. He is also producing and distributing the premium cashew grafts (VRI 1, 2 & 3 varieties) to the farmers to fulfill the Government sponsored waste land development scheme at Pudukkottai district. Besides, he

is also prod ucing sap lings of forest trees lik e Neem, Delonix, Teak *etc*. He has no w entered into propagating Delhi Crossandra and supplying to the flower growers of Pudukkottai district. The above feat earned him a name and f ame and tod ay he is one of the trusted and fa mous nursery men in Pudukkottai district.

The socio-economic status of Shri. S. Thinakarasamy has been improved after he entered into the nursery venture. Tremendous improvement in the standard of living is a reality i.e. family dietary, sartorial, entertainment, children education and social affairs. Since he started the nursery he has sold more than one lakh seed lings and earned a net profit of Rs. 4,14,750 and bought a new two wheeler and subsequently a jeep for visiting nursery and transporting seed lings. Currently, he is eng aged in establishing new frontier venture *viz.*, medicinal plants. He is motivating and imparting nursery skills to the in terested rural y ouths. In short, Shri. S. Thinak arasamy has e mpowered the un employed school dropouts. The surplus earning is being used for expanding the nursery and constructing a new house. He has become a role model and sev eral new nursery men are coming up in Pudukkottai district.

Shri. B. Thamilsekaran (44 years) residing at Chinnasunaiyakadu, is having two acres of land regularly attends KV K training pro grammes. Besi des, he was strongly im pressed by seeing the nursery of Shri. S. Thinagarsamy and his quantum leap from subsistence to well to-do farmer. He was motivated to attend the training programme on nursery propagation techniques. A fter such training, he started a small nursery unit for propagation of Jack grafts. The whole family showed more interest and e xtended support in devel oping nursery. Now he i s a fa mous nursery man in his villag e for supplying Jack grafts. His earning is around Rs. 200 per day. The annual income is Rs. 2 lakhs which is 50 % more than his actual income from other sources.

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

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.	Сгор	ITK Practiced	Purpose of ITK
1 G1	rains and Pulses	Keeping <i>Pungam</i> and Neem tree branches in Godowns	To repel the storage pest
2 G1	round nut	Application of <i>Panchakavya</i> (Mixture of cow dung, cow urine, curd, ghee and milk along with some organic additives fermented solution)	To promote growth of Agricultural crops.
3 Co	oconu t	Keeping toddy in coconut gardens	To attract red palm weevil adults.
4	Pulses	Treating the pulses with red earth slurry	To reduce storage beetle attack.
5 H	um an Nutrition	Preparation of weaning food from sprouted cereals and pulses.	To improve the nutrition of growing children
6	Goat	Oral administration of Betel vines, <i>omam</i> and aniseeds to goats	De-worming
7	Amla	Beating of branches of Amla tree before flowering season	Boosting yield
8	Jasmine	Pinching of current season shoot in Jasmine	Obtaining higher flower yield at the appropriate time

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

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

10.G. Field activities

1.

- i. Number of villages adopted : 21
- ii. No. of farm families selected : 350
- iii. No. of survey/PRA conducted : 21

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab: Well establishedYear of establishment: 1.09.2005

2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	Spectrophotometer attached with computer	1	75,072.00
2	Fridge- 300litcapacity	1	19,985.00
3	Flame photometer	1	36,720.00
4	Electronic balance –capacity-200g	1	91,520.00
5	Electronic balance –capacity-6kg	1	28,080.00
6	Water distillation unit	1	26,118.00
7	Kjelplus distillation unit Macro kjeplus apparatus	1	24,589.00
8	Mechanical shaker – reciprocating type	2	44,077.00
9	Grinder – willey mill	1	11,582.00
10	Kjelplus distillation system	1	61,320.00
11	Kjelplus distillation system	1	86,766.00
12	Laboratory Table with acid and alkali proof	2	28800.00
13	Steel Laboratory Table	5	27500.00
Total		19	562129.00

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	1314	1225	184	32850
Water Samples	112	97	27	1120
Plant samples				
Manure samples				
Others				
Total	1426	1322	211	33970

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	359	312	63	8975
Water Samples	64	53	18	840
Plant samples				
Manure samples				
Others				
Total	423	365	81	9815

10.I. Technology Week celebration 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	te Meetings Gosthies		Field	Field days Farmers fair		Exhibition		Film show				
	No.	No.of	No.	No.of	No.	No.of	No.	No.of	No.	No.of	No.	No.of
		farmers		farmers		farmers		farmers		farmers		farmers
Total												

PART XI. IMPACT

Name of the specific technology /	No. of	% of	Change in in	Change in income (Rs/ha)		
Skill transferred	participant s	adoption	Before (Rs./Unit)	After (Rs./Unit)		
Bee keeping	73	27	-	3,500		
Value added milk products	50	10	12,000	20,000		
Plant protection in cashew	33	90	18,000	25,000		
Introduction of annual moringa (PKM 1)	25 20		7,000	15,000		
Micronutrient management in jasmine	30 50		8,000	11,000		
SRI technique in paddy	200	31	10,000	17,000		
Mushroom production	40	10	2,200	3,000		
Saucer planting of casuarina	16	50	78,000	1,00,000		
Green fodder cultivation	35	10	10,000	12,000		
Seed drill for wet land paddy	100	30	10,000	13,000		
Propagation of horticultural crops	20	25	15,000	25,000		
Gypsum application in groundnut	100	75	30,000	38,000		
Tissue culture banana	20	15	1,80,000	23,00,000		

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

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 Organisation	Nature of Linkage			
Department of Agriculture	Joint diagnostic survey Participation in Farmers' day & zonal work shop Providing seasonal messages Joint implementation of Developmental programmes Participating in ATMA programme			
Department of Horticulture	Joint diagnostic survey Participation in trainings Participation in Farmers' day			
Department of Agricultural Engineering	Technical discussions Participation in training programmes in village demonstrations on farm implements Participation in SAC Meeting.			
District Administration	Participation in Farmers' Grievances day Collaboration in developmental and welfare programmes			
District Rural Developmental Agency(DRDA)	Conducting training programmes to SHG Participation in village meetings Participation in water shed development programmes			
Regional Research Centre (TANUVAS)	Participation in Training Programmes			
NABARD	Joint participation in meetings/seminars/trainings.			
Department of Forestry	Joint diagnostic survey			
M.S.Swaminathan Research Foundation	Participation in meetings Joint diagnostic survey of field problems			
All India Radio, Trichirapalli, Madurai and Kodaikanal	Announcement of KVK training programmes Broadcasting seasonal messages Broadcasting radio talks of Scientists			
Department of Fisheries/Sericulture	Participation in meetings Purchase of Seeds			
STAMIN, Kudumianmalai	Participation in trainings Purchase of Seeds			
National Research Centre for Banana, Thiruchirapalli	Joint Participation in trainings Technical knowhow on value added products in banana			
E.I.D Parry sugars Ltd	Field visit and Participation in meetings/trainings, laying out of precision farming			
Department of Agriculture marketing and Agri business	Establishing market linkage, Formation of commodity groups			
Tamil Nadu Forest Corporation TAFCORN	Exchange of technologies related to forestry Training experts assistance for training			
Directorate of Cashew Nut and Cocoa Development, Cochin	Financial assistance for conducting training and seminar			

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
IAMWARM 1	.4.2010	World Bank	20,43,000
Cashew seminar	1.4.2010	Directorate of Cashewnut and Cocoa development, Cochin	50,000.00
Farmers Participatory Seed Production Demo and Trainings in Oil seed and Pulses	1.4.2010	NADP 6	5,000.00
Water Conservation Technologies for effective drought proofing in dry land ecosystems of Tamil Nadu	1.4.2010	NABARD 4	4,965.00
Integrated Farming Systems for dry land agriculture in Tamil Nadu	1.4.2010	NABARD 5	0,715.00

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

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

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	ATMA Technical meeting	12	-	-
02	Research projects	L L			
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

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

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

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			
July			
August			
September			
October			
November			
December			
January 2011			
February			
March			

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

		Year of Area		Details of	of productio	n	Amoun	t (Rs.)	
Sl. No.	Demo Unit	establishment	(ha)	Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks

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

Name	Date of	Date) a	Det	ails of producti	on	Amour	nt (Rs.)	
of the crop	sowing	of harvest	Area (ha)	Variety	Type of Produce	Qty(qtl)	Cost of inputs	Gross income	Remarks
Cereals									
Pulses									
Black gram	31.6.2010			VBN4	Seed	4.0	25000	28000	
5.7.	2010			VBN5	Seed	6.0	35000	42000	
10.1	1.2010			VBN3	Seed	5.0	29000	35000	
Green Gram	12.11.2010			VBN2	Seed	1.34	8500	938	
Oilseeds									
Ground nut									
Fibers									
Spices & Planta	tion crops								•
Coconut	5.1.2010	2010	Nursery	East coast tall	Seedlings 3	608	35000	90200	
27.	7.2010	2011	Nursery	East coast tall	Seedlings 56	5 0	12000	14000	595 balance stock available
Floriculture									
Fruits									
Vegetables									
Others (Foddder	r crops)	1					1		1
Veliomasal 1	5.8.2010	-	0.10	-	Seed	10kg	1000	5000	
Cumbu Napier	15.4.2010 -		0.10	Co4	Slips	30000 Nos	3000 1	5000	
Guinea grasss	10.5.2010 -		0.10	C01	slips	30000 Nos	3000 1	5000	

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

		-	Am	ount (Rs.)	
Sl. No.	Name of the Product	Qty	Cost of inputs	Gross income	Remarks
1 Ve	rmicompost	700kg	2500	3500	
2.	Coir waste (Composted)	1000kg	2000	5000	

	Name	Deta	ils of production		Amou		
Sl. No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks

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

13.E. Utilization of hostel facilities : KVK Office functioning

Accommodation available (No. of beds) Trainee days (days stayed)Reason for short fall (if any) Months No. of trainees stayed

October 2008		
November 2008		
December 2008		
January 2009		
February 2009		
March 2009		
April 2009		
May 2009		
June 2009		
July 2009		
August 2009		
September 2009		

13.F. Database management

S. No	Data base target	Database created
1.	KVK Farm Produce Database	Completed
2.	Expert System Database for various crops	Completed
3. D	istrict Profile	Completed
4. Cropp	ing Pattern	Completed
5. Rainf	all	Completed

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	Name of	Location	Branch	Account	Account Number	MICR	IFSC Number
account	the bank		code	Name		Number	
With							
Host							
Institute							
With	Punjab			D			
KVK	National	Pudukkottai		Programme	0393000100154329	622024002	P UNB0039300
	Bank			Coordinator			

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				
	Essential inputs					
	POL, hiringvehicle,Kisanmelas,printedmaterials,reports,demonstrationboardsTotal					
2.	Farm Implements – 75 h	a				
	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 (for 2010-11)	45.00		45.00		
	Pay & Allowances	54.53		54.53		
	(6th CPC Arrears from 1.1.2006-31.3.2011	54.55		54.55		
2	Traveling allowances	1.00		1.00		
3	Contingencies					
Α	Stationery, t elephone, po stage a nd ot her ex penditure o n o ffice running, p ublication of New sletter a nd libra ry ma intenance (Purchase of News Paper & Magazines)	1.80		1.80		
В	POL, repair of vehicles, tractor and equipments	1.40		1.40		
С	Meals/refreshment for r t rainees (c eiling upto Rs.40/day/trainee be maintained)	0.75		0.75		
D	Training material (po sters, c harts, dem onstration m aterial including chemicals etc. required for conducting the training)	0.35		0.35		
Ε	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	1.75		1.75		
f	FLD on special pulse programm	-		-		
g	On f arm testing (on need bas ed, location specific and newly generated information in the major production systems of the area)	0.80		0.80		
h	Training of extension functionaries	0.25		0.25		
Ι	Maintenance of buildings	0.30		0.30		

j	Extension Activities	0.30		0.30
k	Farmers Field School	0.25		0.25
l	Library	0.05		0.05
	TOTAL (A)	108.53		108.53
B. No	n-Recurring Contingencies			
1	Equipments & Furnishing			
a	Ge nerator	1.00		1.00
b	Furniture and Furnishing	7.00		7.00
c	Power tiller	1.50		1.50
d	EPABX system	0.50		0.50
2	Works			
a	Admn Building	55.00		55.00
b	Threshing & drying yard	1.00		1.00
c	Storage godown	3.00		3.00
d	Bore well	3.00		3.00
3	Library (Purchase of assets like books & journals)	0.10		0.10
	L (B)	72.10	72	.10
C. RE	EVOLVING FUND	-		-
GRA	ND TOTAL (A+B+C)	180.63	180.63	180.63

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2008 to March 2009	2,86,939 1,97,2	16	1,30,299	3,53,856
April 2009 to March 2010	3,53,856 1,91,3	07	1,89,209	3,55,954
April 2010 to March 2011	3,55,954 3,18,7	23	2,83,811	3,91,466

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
Th S.Gopal	Asst Professor (Agrl Ento)	IPM strategy for high value crops	TNAU	24.3.2011-25.3.2011
		Mealy bug management	ICAR	25.10.2010
Dr.V.Krishnamorthy	Asst Professor (Hort)	Protected cultivation of Hort crops	TNAU 28.3.2	011-29.3.2011
Dr.S.K.Natarajan	Asst Professor (Agronomy)	Weather based Agro advisory services	TNAU 30.3.2	011-31.3.2011
Dr.Gurunathan	Asst Professor (Agrl Economics)	New imitative on transfer of technologies	TNAU 24.3.2	011-25.3.2011
		Poultry Management	TANUVAS	24.11.2010-26.11.2010
Dr.S.Kavitha	Asst Professor (Seed Sci & Tech)	Varietal Purity testing	TNAU	25.10.2010-29.10.2010

		Strengthening of gender perspectives in agricultural Research and Extension	TANUVAS 2	4.1.2010-25.1.2010
	Programme	Data base management, web		
Tmt S.Suganthi	Assistant	content and web hosting	TNAU 29.3.2	011-31.3.2011
	(Computer)	development		

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 trial s
Integrated Nutrient Management			5
Varietal Evaluation	Paddy	Farmers participatory hybrid seed production CORH3	4
Integrated Pest	Banana	Application of Carbofuran 40g/sucker+Neem cake 500g on 3, 5 Month +Application of <i>Pseudomonas fluorescence</i> 25g/plant during 1, 3 rd month	5
Management		Application of Carbofuran 40g/sucker+Neem cake 500g on 3, 5 Month+ <i>Pseudomonas fluorescence</i> 1. 25kg+ <i>Bacillus subtilis</i> 1.25kg/ha during 3 month	5
	Paddy	Seed hardening with 1% KCl for 10 hrs + seed treatment with Bavistin (a) 2 g + Azospirillum (a) 20 g/ kg of seed	5
Integrated Crop Management		Designer seed techniques : Seeds hardened with 1% KCl followed by coated with polykote @ 3g + Imidachloprid @1 ml + Carbendazim @ 2g + pseudomonas @10g + Azophos @ 40g + micronutrient mixture @ 20g + DAP @ 30g / kg of seed.	5
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management	Paddy	Double row TNAU power weeder	5
Resource Conservation Technology		Single row power weeder designed by KVK, Madurai	5
Farm Machineries			
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	Poultry	 Oral Pellet Ranikhet Vaccine on the 7& 14 day RDVK – subcutaneous 8th and 16th week 	50
Evaluation of Breeds			
Feed and Fodder management			
Nutrition Management	Cattle	Area specific mineral mixture 30 to 50 g/day continuously for one year from the first day after calving	10
Production and Management			
Others (Pl. specify)			
Total	-	·	

Summary of technologies assessed under various enterprises

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

Summary of technologies assessed under home science

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

II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops

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

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			
Evaluation of Breeds			
Feed and Fodder management			
Nutrition Management			
Production and Management			
Others (Pl. specify)			
Total			

Summary of technologies refined under various enterprises

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

Summary of technologies refined under home science

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

III. FRONTLINE DEMONSTRATION

Cotton

Frontline demonstration on cotton

Crea	Thomast	Name of the	No.	No. of	Are	Yield (q/h	Yield (q/ha)		*Econ	omics of (Rs./		ration	*Economics of check (Rs./ha)				
Cro p	Themati c Area	technology demonstrate d	of KVK S	Farmer s	a (ha)	_	Chec k	Increas e	Gros s Cost	Gross Retur n	Net Retur n	** BC R	Gros s Cost	Gross Retur n	Net Retur n	** BC R	
Tota																	
1																	

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

Other crops

Crop	Thematic area	Name of the technology		No. of		Yield ((q/ha)	% change in yield	Other para	meters	Econo	omics of (Rs.		ation	Ec	conomics (Rs.		k
Сюр	Thematic area	demonstrated	KVKs	Farmer	(ha)	Demons ration	Check	De	monstration	Check	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Oilseeds																		
Ground nut		Popularization of new HYV	20		4	19.5	18.00	8.33	Shelling (%) 74	71	25800	68250 4	42 450	2.64	25800	63000	37200	2.44
Sesame		Popularization of new HYV	20		4	8.5	7.65	11.11	No. of branches:5	3	15050	32300	7 250	2.14	15050	29070	14020	1.93
Pulses																		
Black gram		Popularization of new HYV	20		4	9.88	8.40	17.62	Yellow mosaic virus: Tolerant	Susceptible	20701	59280 3	8 579	2.8	20701	50400	29699	2.4
Green gram		Popularization of new HYV	20		2	11.12	9.10	22.2	Yellow mosaic virus: Moderately susceptible	Tolerant	19900	55625 (5 725	2.79	19900	45500	25600	2.28
Red gram		Popularization of new HYV	20		2	8.37	6.45	29.77	Pod borer incidence: Nil	Tolerant	15580	41875	6 295	2.68	15580	32250	16670	2.06
Cereals																		
Paddy		Popularization of new Hybrid	10		2	89.9	73.6	22.15	Blast PDI: Moderately susceptible	Highly susceptible	38812	93496 :	4 683	2.41	38812	76544	37731	1.97
Paddy		Popularization of new HYV	10		2	75.63	64.37	17.49	No. of tillers:35	27	38465	78650 4	0 185	2.04	38465	66950	28485	1.74
Vegetables																		
Snakegourd	Popularization of HYV	Popularization of HYV PLR2	10		2	270	160	131.25	Fruit weight: 600g	330g	73123	185000	111877	2.53	52980	80000	27020	1. 51
Flowers																		
Ornamental																		
Grinamental																		

Fruit	INM	Foliar application of sulphate of potash 2% at peanut stage and 2 sprays at 15 days interval	1	0	2	173	152	13.82	Fruit weight: 450g	300g	33650	86500 5	52 850	2.57	36019	76000	39981	2.11
Spices and condiments																		
Commercial																		
Medicinal and aromatic																		
Fodder	Fodder bank	Popularization of Fodder bank	1	6	1.04	3175	2400	32.29	Fodder availability: Throughout the year	During monsoon	24650	146000	121350	5.92	23750	96000	722250	4. 04
Plantation	IPM	Application of coir pith 50kg/tree Spraying against tea mosquito bug Profenophos5ml/L at fleshing Chlorpyriphos 5ml/L at flowering Carboryl 1g/L at peanut stage	10		2	9.5	6.13	35.47	Pest incidence (%):15	45	15322	38000 2	2 678	2.48	11621	24520	12899	2.11
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	Name of the technology	No. of KVKs	No. of Farmer	No.of units	Major par	ameters	% change in major parameter	Other par	rameter	*Eco	nomics of (R	demonstr s.)	ation	*]	Economic (R	es of chec s.)	k
	area	demonstrated	K V KS	Farmer	units	Demons			Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy						Tution			Tution		Cost	Itetuin	Return	Der		Return		
Poultry		opularization of turkey birds among the farmers	10		10	7.40	1.90	64.05	Body weight gain: More	Less 4	60	1110	550	2.41	350	418	68	1.19
Rabbitry																		<u> </u>
Pigerry																		
Sheep and goat		Popularization of improved breed	6		6	13.65	9.5	43.68	Body weight gain: More	Less 1	350 3	141	1791	2.33	1050 2	185	1135	2.08
Duckery																		<u> </u>
Others (pl.specify)																		
		Total																<u> </u>

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

Fisheries

Catagory	Thematic	Name of the	No. of		No.of	Maj param		% change in major parameter	Other par	rameter	*Ecor	nomics of (Rs	demonstr s.)	ation	*1	Economic (R	s of chec s.)	k
Category	area	technology demonstrated	KVKs	Farmer	units	Demons ration	Check		Demons ration	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

Catao	Name of the technology demonstrated					No. of	No. of	No.of	Major parameters		% change in major parameter	Other par	rameter	*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
Category		KVKs	Farmer	units	Demons ration	Check		Demons ration	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	Crop	Name of the technology demonstrated			No. of	No. of	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor	Labor reduction (man days)			Cost reduction (Rs./ha or Rs./Unit ect.)			
implement			KVKs	Farmer	(ha)	Demons ration	Check	·	Gross cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR		
Mini mobile sprinkler	Black gram	Mini mobile sprinkler in black gram		20	20	3	8	62	17566 3	9600	22034	2.25	15738 3	1200	15462	1.98		
CRIDA vegetable preservator	Brinjal	Popularization of CRIDA vegetable preservator		20		-	1	100	91.2	150	58.8	1.64	90	108	18	1.2		
Pulses hulling machine	Black gram	Popularization of Pulses hulling machine		20		2	4	50	5320 6	10 0	780	1.15	4800 5	20 0	400	1.08		

* 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

	Сгор	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / m	ajor paramet	er	Economics (Rs./ha)						
				Demonst- ration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR				
C	ereals													
Ва	ajra													

·	1				r	1	
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							
	•	•				•	

MandImageI						
hindImageI	Brinjal					
bataImage: sector of the sector o	Okra					
ield banImage: selection of the	Onion					
hhenglappeifyImage: selection of the selection of	Potato					
index<index<index<index<index<index<indexindexindexindexindexindexindex <td>Field bean</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Field bean					
Commercial cropsImage: second sec	Others (pl.specify)					
Commercial cropsImage: second sec						
hugacaneImage of the second secon	Total					
hugacaneImage of the second secon	Commercial crops					
SocontImage: Socont series of the	Sugarcane					
Image: Section of the section of th	Coconut					
Image: Section of the section of th	Others (pl.specify)					
odder copsImage: Second se						
Aaze (Fodder)Image: Second	Total					
Aaze (Fodder)Image: Second	Fodder crops					
https://preside Image: Constraint of the second	Maize (Fodder)					
https://preside Image: Constraint of the second	Sorghum (Fodder)					
	Others (pl.specify)					
otal						
	Total					

IV. Training Programme

	No. of				No. a	of Partic	ipants			
Area of training	Cours		General			SC/ST		G	rand To	otal
	es	Mal e	Fema le	Tot al	Mal e	Fema le	Tot al	Mal e	Fema le	Total
Crop Production		Ľ	К	aı	C	К	ai		п	
Weed Management										
Resource Conservation										
Technologies										
Cropping Systems	1 16		8	24	-	3	3	16	11	27
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production	2	28 1	6	44	7	3	10	35 1	9	54
Nursery management			-			_	-			
Integrated Crop Management										
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	1 19		-	19	2	-	2	21	-	21
210ff-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	1	12	8 20		6	4 10		18	12	30
Management of young	1									
plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of										
orchards										
Plant propagation techniques										
Others (pl.specify)										

Farmers' Training including sponsored training programmes (On campus)

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	1	15 15	5	30	1	1	2	16 1	6	32
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management										
technology	1	-	9	9	- 22		22	- 3	1	31
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	1	14 12	2	26	2	1	3	16 1	3	29
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	1	22 14	1	36	2	2	4	24 1	6	40
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal										
products										
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	2	- 40		40	_	4	4	- 4	4	44
Gender mainstreaming through	2	10		10						
SHGs										
Storage loss minimization										
techniques										
Value addition										
Women empowerment										
Location specific drudgery										
production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance	1	21 18	3	39	4	2	6	25 2	0	45
Installation and maintenance of	1.0		01	20	1	E	10	12	27	40
micro irrigation systems	19		21	30	4	6	10	13	27	40
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 (Usage of pulses										
harvester)	1 20		3	23	1	3	4	21	6	27
					L]	L			L

Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents									
and bio pesticides	1	6 23	29	3	3	6	92	6	35
Others (pl.specify)									
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	1	8 13		21	-	5	5	81	8	26
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (Creating awreness about agriportal)	1	- 14		14	- 26		26	- 4	0	40
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	17	190	214	404	32	85	117	222	299	521

Farmers' Training including spo			5 progra			of Partic	ipants			
Area of training	No. of Cours		General			SC/ST	-		rand To	otal
Area of training	es	Mal	Fema	Tot	Mal	Fema	Tot	Mal	Fema	Total
		e	le	al	e	le	al	e	le	Iotai
Crop Production										
Weed Management	1	26 1	4	40	12	8	20	38 2	2	60
Resource Conservation Technologies	1	21 1	4	35	3	4	7	24 1	8	42
Cropping Systems	2	61 2	0	81	4	4	8	65 2	4	89
Crop Diversification	2 41		32	73	5	7	12	46s	39	85
Integrated Farming	1	97		16	12		3	10	9	19
Micro Irrigation/Irrigation	1	18 1	2	30	2	1	3	20 1	3	33
Seed production	5 80		91	171	12	9	21	92	100	192
Nursery management										
Integrated Crop Management	1	13 1	6	29	1	4	5	14 2	0	34
Soil and Water Conservation	1	192	1	40	6	6	12	25 2	7	52
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)	1	12	9 21		6	4 10		18	13	31
Horticulture	-	12	/ _1		0			10	10	51
a) Vegetable Crops										
Production of low value and high		• • •				_			-	
volume crop	1	20.2	3	43	4	7	11	24 3	0	54
Off-season vegetables	1	15.2	4	39	4	3	7	19 2	7	46
Nursery raising	1	181	5	33	4	3	7	22 1	8	40
Exotic vegetables	1	14 1	9	33	4	5	9	18 2	4	42
Export potential vegetables	1	21.1	5	36	1	3	4	22 1	8	40
Grading and standardization	1	21.1	8	39	3	2	5	24 2	0	44
Protective cultivation										
Others (pl.specify)	2	56 3	4	90	7	4	11	63 3	8	101
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	12	8 20		6	4 10		18	12	30
Management of young	1	18 1		35	2	4	6	20.2	1	41
plants/orchards Rejuvenation of old orchards										
Export potential fruits	1.22			22	6		6	20		20
Micro irrigation systems of	1 32		-	32	6	-	6	38	-	38
orchards										
Plant propagation techniques	1	16.1	5	31	4	3	7	20 1	8	38
Others (pl.specify)	1	13.1	7	30	4	6	10	17 2	3	40
c) Ornamental Plants										
Nursery Management										

Farmers' Training including sponsored training programmes (Off campus)

Management of potted plants										
Export potential of ornamental plants	1	22 18		40	3	2	5	25 2	0	45
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology	1	19 10)	29	2	3	5	21 1	3	34
Processing and value addition										
Others (pl.specify)										
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	1	16 16		32	2	4	6	18 2	0	38
Integrated nutrient management	1	23 13		36	4	7	11	27 2	0	47
Production and use of organic inputs										
Management of Problematic soils	18		11	19	3	2	5	11	13	24
Micro nutrient deficiency in crops	1 32		8	40	2	2	4	34	10	44
Nutrient use efficiency	1	18 21		39	1	2	3	192	3	42
Balanced use of fertilizers										
Soil and water testing	1	12 22		34	-	-	-	12 2	2	34
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management	1	18 14		32	3	3	6	21 1	7	38

				1		1				1
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	17 1)	36	5	3	8	22 2	2	44
Production of quality animal										
products										
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					<u> </u>					
Gender mainstreaming through										
SHGs										
Storage loss minimization										
techniques										
Value addition										
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		10.0				-	10	4- 6	~	0.5
addition	2	42 3	4	76	5	5	10	473	9	86
Post Harvest Technology										
Others (pl.specify)				1						
Plant Protection										
Integrated Pest Management	6 10	4	99	203	11	10	21	115	109	224
Integrated Disease Management	2	33 2		60	4	6	10	37.3	3	70
integrated Disease Management	2	<i>33 2</i>	/	00	4	0	10	5/3	3	/0

Bio-control of pests and diseases	1	19 17	36	3	4	7	22 2	1	43
Production of bio control agents and bio pesticides									
Others (pl.specify)	1	14 12	26	7	5	12	21 1	7	38
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)	1	17 1	3	30	5	4	9	22 1	7	39
Capacity Building and Group Dynamics										
Leadership development	1	17 2	2	39	2	2	4	19 2	4	43
Group dynamics										

Formation and Management of SHGs										
Mobilization of social capital	17		8	15	1	-	1	8	8	16
Entrepreneurial development of farmers/youths	1 24		4	28	3	-	3	27	4	31
Others (pl.specify)	3	68 2	5	93	3	6	9	713	1	102
Agro-forestry										
Production technologies	2	39 4	1	80	2	3	5	414	4	85
Nursery management										
Integrated Farming Systems	1	12 1	3	25	2	1	3	14 1	4	28
Others (Pl. specify)										
TOTAL	61	113 7	908	204 5	174	167	341	131 1	1075	2386

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

	No.				No. of	Partic	ipants			
Area of training	of		Genera	al		SC/ST		Gr	and To	tal
Area of training	Cou rses	M ale	Fem ale	Tota l	Ma le	Fem ale	Tot al	Ma le	Fem ale	To tal
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	1 10		17	27	2	2	4	12	19	31
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	2 19		2	21	12	16	28	31	18	49
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)	1 -		9	9	-	31	31	-	40	40
TOTAL	4	29	28	57	14	49	63	43	77	120

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

	No. of			l	No. of 1	Particip	ants			
Area of training	Cours	(General			SC/ST		G	rand To	tal
Arrea of training	es	Male	Fem ale	Total	Mal e	Fem ale	Tota l	Ma le	Fem ale	Tot al
Nursery Management of Horticulture crops	1 17		21	38	3	2	5	20	23	43
Training and pruning of orchards	1 15		38	53	1	2	3	16	40	56
Protected cultivation of vegetable crops	1 12		21	33	1	4	5	13	25	38
Commercial fruit production	19		12	21	4	3	7	13	15	28
Integrated farming	2 35		34	69	3	11	14	38	45	83
Seed production	5	77	67	144 1	7	14	31 94	ŀ	81	175
Production of organic inputs	1 24		21	45	4	2	6	28	23	51
Planting material production	1 19		14	33	2	3	5	21	17	38
Vermi-culture	1 17		-	17	-	-	-	17	-	17
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing	1 21		19	40	3	5	8	24	24	48
Post Harvest Technology	1 16		14	30	6	8	14	22	22	44
Tailoring and Stitching										
Rural Crafts										

Production of quality animal products	18		12	20	2	3	5	10	15	25
Dairying	1 18		22	40	5	2	7	23	24	27
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1 17		13	30	2	4	6	19	17	36
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)	1 38		14	52	4	4	8	42	18	60
TOTAL	20	343	322	665	57	67	124	400	389	789

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

	No.			l	No. of 1	Particip	ants			
Area of training	of	(General			SC/ST		G	rand To	otal
Arta or training	Cou rses	Male	Fem ale	Tota l	Mal e	Fem ale	Tota l	Ma le	Fem ale	Tota l
Productivity enhancement in field crops	1 19		2	21	-	-	-	19	2	21
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards	1 24		-	24	-	-	-	24	-	24
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	1 31		-	31	-	-	-	31	-	31
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)	1 21		-	21	-	-	-	21	-	21
Total	4	95	2	97	-	-	-	95	2	97

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

	No.			l	No. of 1	Particip	ants			
Area of training	of	(General			SC/ST		G	rand To	otal
Arta or training	Cou rses	Male	Fem ale	Tota l	Mal e	Fem ale	Tota l	Ma le	Fem ale	Tota l
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

		No.				No. of	f Partic	ipants	5		
S.N	Area of training	of		Genera	1		SC/ST		Gi	and To	otal
0.	Area of training	Cour	Ma	Fem	Tot	Ma	Fem	Tot	Ma	Fem	Tot
		ses	le	ale	al	le	ale	al	le	ale	al
1	Crop production and										
	management										
1.a.	Increasing production and	3 27		3	30	_	_	_	27	3	30
	productivity of crops	521		5	50				21	5	50
1.b. (co mmercial 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										
4	Production of Inputs at site										
5	Methods of protective										
	cultivation										
6	Others (pl.specify)	3 30		- 30		-	-	-	30	-	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.	Animal Nutrition Management										
a.											
10.	Animal Disease Management										
b.											
10.	Fisheries Nutrition										
c											

10.	Fisheries Management										
d											
10.	Others (pl.specify)										
e.											
11.	Home Science										
11.	Household nutritional security										
a.											
11.	Economic empowerment of										
b.	women										
11.	Drudgery reduction of women										
c.											
11.	Others (pl.specify)										
d.											
12	Agricultural Extension										
12.	Capacity Building and Group										
a.	Dynamics										
12.	Others (pl.specify)	5	22	52 74		12	14 26		34	66	100
b.		5	22	52 74	ł	12	14 20	,	54	00	100
	Total	11	79	55	134	12	14	26	91	69	160

		No.				No. of	' Partic	cipants	5		
S.N	Area of training	of		General	l		SC/ST	-	Gi	and To	tal
0.	Area of training	Cour ses	Ma le	Fem ale	Tot al	Ma le	Fem ale	Tot al	Ma le	Fem ale	Tot al
1	Crop production and management										
1.a.	Commercial floriculture	3	18	7 25		_	_	-	18	7 25	
1.b.	Commercial fruit production	5	10	, 20					10	1 20	
	o mmercial vegetable							_			
1.0. (production	6	9	17 26)	3	6	9	12	23 35	þ
1.d.	Integrated crop management	6	14	16 30)	2	3	5	16	19 35	;
1.e.	Organic farming							-			
1.f.	Others (pl.specify)										
2	Post harvest technology and										
-	value addition										
2.a.	Value addition	6	19	15 34		3	3	6	22	18 40)
2.b.	Others (pl.specify)	-				-	-	-			
<u>3.</u>	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	12	11	45 56)	6	8	14	17	53 70)
4.f.	Sericulture	6	21	10 31		2	2	4	23	12 35	5
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i. T	ail oring, stitching, embroidery, dying etc.										
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	39	92	110	202	16	22	38	108	132	240

Details of vocational training programmes carried out for rural youth

V. Extension Programmes

Activities	No. of programmes	No. of programmes No. of farmers		TOTAL	
Advisory Services	72	80	7	87	
Diagnostic visit	43	51	3	54	
Field Day	28	2287	27	2314	
Group discussions	6	115	4	119	
Kisan Ghosthi					
Film Show	23	542	19	561	
Self -help groups					
Kisan Mela	3	789	17	806	
Exhibition	2	1522	25	1547	
Scientists' visit to farmers field	92	98	9	107	
Plant/animal health camps					
Farm Science Club	7	273		273	
Ex-trainees Sammelan					
Farmers' seminar/workshop	1	150	5	155	
Method Demonstrations	48	1706	51	1757	
Celebration of important days					
Special day celebration					
Exposure visits	3	299	6	305	
Others (pl.specify)					
Total	328	7912	62	8085	

Details of other extension programmes

Particulars	Number
Electronic Media	
Extension Literature	3000
News Letter	3000
News paper coverage	46
Technical Articles	
Technical Bulletins	
Technical Reports	3
Radio Talks	2
TV Talks	
Animal health amps (Number of animals treated)	
Others (pl.specify)	
Total	

VI. PRODUCTION OF SEED/PLANTING MATERIAL

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 Blackgr	am &greengram	VBN-4,VBN-5 VBN-3,VBN-2	20.94 13	2780	170
Commercial crops					
Vegetables					
Flower crops					
Spices					
Fodder crop seeds	Velimasal		0.11	5600	5
Fiber crops					
Forest Species					
Others					
Total			21.05	138380	175

Production of seeds by the KVKs

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	Coconut	East coast tall	3608	90200	133
Spices					
Tuber					
Fodder crop saplings	Cumbu napier & Guinea grass	CO-4 CO-3	61000 3050	00	252
Forest Species					
Others					
Total			64608	120700	385

Production of Bio-Products

	Name of the bio-product	Quantity	Volue (Dg)	No. of Farmers	
Bio Products	Name of the bio-product	Kg	value (Ks.)		
Bio Fertilizers	Vermicompost	700	3500	6	
Bio-pesticide					
Bio-fungicide					
Bio Agents					
Others	Coir pith compost	1000	5000	10	
Total		1700	8500	16	

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					

Production of livestock and related enterprise materials

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

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	359	312	63	8975
Water	64	53	18	840
Plant				
Manure				
Others (pl.specify)				
Total	423	365	81	9815

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted	
1	

IX. NEWSLETTER

Number of issues of newsletter published 4

X. RESEARCH PAPER PUBLISHED

Number of research paper published

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.)	

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