PROFORMA FOR ANNUAL REPORT 2010-11

(FOR THE PERIOD APRIL 2010 TO MARCH 2011)

KRISHI VIGYAN KENDRA (THENI)

PART I - GENERAL INFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
CENDECT Krishi Vigyan Kendra,	04546-	04546-	cendectkvk@ rediffmail.com	www.cendectkvk.org
West Street, Kamatchipuram (S.O)	247564	247564		
Theni District - 625 520				
Tamil Nadu				

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

Address	Telephone		E mail	Web Address
	Office	Fax		
Centre for Development and	04546-	04546-	cendect@gmail.com	www.cendect.org.in
Communication Trust (CENDECT)	247245	247245		
Kamatchipuram (S.O),				
Theni District - 625 520				
Tamil Nadu				

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

Name	Telephone / Contact			
	Residence	Mobile	Email	
Dr. P. Marimuthu,	04546-247990	09442025109	cendectmari@rediffmail.com	
Programme Coordinator,				
CENDECT KVK,				
Kamatchipuram (S.O),				
Theni District - 625 520				
Tamil Nadu				

1.4. Year of sanction:

1.5. Staff Position (as 31st March 2011)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr.P.Marimuthu	Programme Coordinator	М	Agrl.Extension	Ph.D	12,000- 18,300	12,980	1/31/2001	Permanent	OBC
2	SMS	Mr.M.Lord Savariraj	Subject Matter Specialist	М	Plant Protection	M.Sc (Agri.)	8,000- 13,500	8,275	1/1/2009	Permanent	OBC
3	SMS	Mrs.S.Karpagavalli	Subject Matter Specialist	F	Home Science	M.Phil (Home Science)	8,000- 13,500	8,550	2/28/2001	Permanent	SC
4	SMS	Vacant	Subject Matter Specialist	-	Horticulture	M.Sc.(Horti)	-	-	-	-	-
5	SMS	Mrs.K.Veerasiakkamal	Subject Matter Specialist	F	Agronomy	M.Sc(Agri)	8,000- 13,500	8,000	12/2/2009	Temporary	OBC
6	SMS	Vacant	Subject Matter Specialist	-	Agricultural engineering	ME(Agri)	-	-	-	-	-
7	SMS	Vacant	Subject Matter Specialist		Soil Science	M.Sc(Agri.)	-	-	-	-	-
8	Programme Assistant(Lab Tech.)/T-4	Vacant	Programme Assistant		Animal Husbandry	B.V.Sc	-	-	-	-	-
9	Programme Assistant (Computer)/ T-4	Mr.S.Suruli Andavar	Computer Programmer	M	Computer Programmer	MCA	5,500- 9000	5,500	8/20/2009	Permanent	OBC

10	Programme Assistant/	Mr.N.Raja	Farm Manager	М	Horticulture	B.Sc(Horti)	5 500-				
	Farm		intanager				9,000	7,075	9/14/2000	Permanent	OBC
	Manager										
11	Assistant	Mr.R.Patchaikannan	Accountant	М	-	-	5,500- 9,000	7,600	3/1/1995	Permanent	OBC
12	Jr. Stenographer	Mrs.S.Murugeswari	Jr. Stenographer	F	-	-	4000-	4,100	1/9/2008	Permanent	OBC
12	Driver	Mr M Databailtannan	Driver	м			2.050				
15	Diivei	wiiwi.ratchatkannan	Diivei	IVI	-	-	4,590	3,050	1/1/2010	Permanent	OBC
14	Driver	Mr.M.Murugan	Driver	М	-	-	3,050-	3 575	8/1/1995	Permanent	OBC
							4,590	5,575	0/1/1995	rermanent	ове
15	Supporting	Mr.S.Murugan	Supporting	М	-	-	2,550-	2 940	2/1/1007	Permanent	OBC
	staff		staff				3,200	2,740	2/1/1///	1 critianent	ODC
16	Supporting staff	Mr.R.Ganesan	Supporting staff	М	-	-	2,550 - 3,200	2,940	5/1/2006	Permanent	OBC

1.6. Total land with KVK (in ha)

: 30.0 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.2 ha
2.	Under Demonstration Units	0.2 ha
3.	Under Crops	27.6 ha
4.	Orchard/Agro-forestry	2.0 ha
5.	Others	30.0 ha

1.7. Infrastructural Development:

A) Buildings

		Source	Stage							
e	s of Comple						Incompl	ete		
5. No.	Name of building	funding	Completion Date Plinth area (Sq.m)		Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction		
1.	Administrative	ICAR	1996	483.5	27,56,902.00	-	-	-		
	Building									
2.	Farmers Hostel	ICAR	2002	312.0	17,49,590.00	-	-	-		
3.	Staff Quarters									
	1	ICAR	1997	32.5	1,55,206					
	2	ICAR	1997	32.5	1,55,206					
	3	ICAR	1997	32.5	1,55,206					
	4	ICAR	1997	32.5	1,55,206					
	5	ICAR	1997	32.5	1,55,206					
	6	ICAR	1997	32.5	1,55,206					
	7	ICAR	1997	32.5	1,55,206					
	8	ICAR	1997	32.5	1,55,206					
4.	Demonstration Units									
	Dairy	ICAR	1999	157	1,60,446					
	Goatery	ICAR	1999	139	1,41,919					
5	Fencing	-	-	-	-	-	-	-		
6	Rain Water harvesting	-	-	-	-	-	-	-		
	system									
7	Threshing floor	-	-	-	-	-	-	-		
8	Farm godown	-	-	-	-	-	-	-		

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Scooter M80	1995	20,727	95470 Km	Need replacement
Honda Activa	2009	50,800	8889 Km	Good
Bolero	2010	6,06,153	30,100 Km	Good
Tractor	2010	5,16,000	278 Hrs	Good

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Over Head Projector	1995	11,160	Good
Electronic Typewriter	1995	21,035	Need replacement
Mixie	1996	2,175	Need replacement
Onida Colour TV	1996	18,600	Good
English T/W Machine	1996	9,852	Good
Tape Recorder	1995	3,925	Good
Weighing Scale	1996	2643	Good
Amplifier & Mike Unit	1996	4,600	Good
Duplicating Machine	1995	17,500	Good
VCR	1996	14,990	Good
Slide Projector	1996	12,855	Good
Fax Machine	2009	15,150	Good
Xerox Machine	2010	75,400	Good
Digital Camera	2010	25,000	Good

1.8. Deta	ils S	AC	meeting	conducted	in	2010-	11
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Sl.	Date	Number of	No. of	Salient Recommendations	Action taken
No.		Participants	absentees		
1.	18.08.2010			 Dr.S. Prabhu Kumar, Zonal Project Director, Zone VIII, ICAR, Bangalore Organize Grape growers Association& prepare ten farmers to find export marketing, and to develop a value added product from grapes like raisin through cottage industries. 	We have organized a Farm Science Club for Grape Growers and linked farmers to Thomson reuters for marketing of quality produces and organized 3 trainings on downy mildew management for 35 farmers and we have motivated a Self Help Group at Odaipatti for production of raisin.
				Organize coconut growers for value addition & marketing.	We have submitted a project proposal under Rural Innovation Fund for organizing Coconut growers for marketing.
				Strengthening the linkage with NYK (Nehru Yuva Kendra) and develop 300 rural youths as technocrats.	We have established linkage with NYK and about 11 training courses have been organized for rural youths and about 50 rural youths were NYK volunteers.
				The popularization of Mealybug Management technologies through adoption of IPM practices and production and release of cryptolemus beetle	We have implemented FLD on Mealybug Management in Cotton involving 9 farmers. We have conducted a session on management of Papaya Mealybug for 100 farmers during seminar organized by KVK.
				Create a soil health profile of the district in the KVK.	We have started soil samples collected from various places in Theni district and discussed with Soil Testing Laboratory, Theni for jointly preparing District Soil Health Profile.
2.				 Mr.R.Murugaprabhu, Lead District Manager, Theni Popularization of technologies to improve the grapes quality with higher TSS suitable for wine industries. 	We have established linkage with Grapes Commodity Group, Odaipatti and disseminated technologies related to quality Grapes with higher TSS.
				 Popularization of technologies for the management of Banana wilt and Leaf spot disease. 	We have organized a FLD on Sigatoka Leaf Spot Management with the participation of 12 farmers in an area of 5 ha and organized 6 Training programmes on IPM with participation of 100 farmers.
				 Organizing training on value added products and linking the bank assistance for establishment of small- scale industries. 	We have organized 16 training programmes on value addition and processing for 397 farm women and organized 3 training courses for 120 rural youths and helped 5 farm women to set up small processing units.
				 Popularization of technologies through farmers clubs and SHG women. 	We have linkage with 30 farmers clubs and 25 SHGs in Theni district and we are regularly disseminating the technologies to them and they have been involved in all KVK activities.
3.				Mr.V.Mani, DDM, NABARD, Theni. • Revival of non-functioning farmers clubs	We have discussed with NGOs and Bankers maintaining farmers club for revival.
				Transfer of technologies through Demonstrations and Training	We have organized 19 FLDs and 174 trainings for popularization of technologies.
				 Providing ideas to the people to develop rural industries and implementation of NABARD agricultural oriented schemes through KVK like Rural Innovation 	we are nerping NGOS to develop project related to RIF and various agricultural programmes. The training for watershed dependent landless and women have been organized at CENDECT KVK and disseminated various agricultural options for

Sl. No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
				Fund, Farm Promotion Fund, Cluster programme & Seminars	NGOs and farmers.
4.				 Mr.M.Pandian, President, Theni District Farmers Association Introduction of suitable sugarcane varieties for Theni district 	We have popularized CO 86032 variety along with FLD on popularization of ICM with Sugarcane Booster among farmers of Theni district. We have organized two sessions on Sugarcane Cultivation during the seminar organized by CENDECT KVK with participation of 100 farmers.
				 Popularization of Drip Fertigation schedule for Banana, Maize and Coconut. 	We have organized one week training on Selection Operation and Maintenance of Sprinkler and Drip Irrigation System and water saving devices for 20 farmers with the collaboration of Agricultural Engineering Department.
				• Creating awareness on cattle farming, feed ands fodder for increasing fat content.	We have organized an OFT on Assessment of Mineral Mixture and organized a FLD on Popularisation of Mixed Fodder among 10 farmers and organsied 2 trainings with 43 farmers participation.
5.				 Dr.V.Ponnusamy, Dean, Horticultural College & Research Institute, Periyakulam Create awareness on Global warming and climate change. 	We have organized a session on Impact of Forest Climate Change and Migration during regional conference on the Impact of Climate Change on Sustainable development and means of mitigation organized by NGO Network at KVK, Dindugal with participation of 212 farmers, NGO leaders and Extension workers Dr.P.Marimuthu, Programme Coordinator Coordinator has participated in the National Workshop on search of Alternative Paradigm in the Context of Climate dissortion organised by Citizens Global Platform at GB Plant Institute of Himalayan Environment and Development, Almora.
				 Form scientists group to assess the quality of planting materials and for certification. Promote Annual Moringa PKM 1,2 varieties through contract farming. 	We have established support with plant breeders of ARS, vaigaidam and HC & RI, Periyakulam for certification of palnning materials. We have promoted PKM 1,2 varieties among Govindanagaram and Rajendra Nagar farmers and linked them with Hosur Contractor for export and higher return.
				• Provide market information and revival of coconut industry.	We are regularly sending SMS messages for revival of Coconut Industry.
6.				 Mr.V.Gnanaprakasam, Executive Engineer Dept. of Agricultural Engineering, Theni Provide total farm mechanization technologies to farmers. 	We have organized a OFT on Assessment of Performance and Suitability of various Weeders in Paddy Cultivation involving 5 farmers and organized. FLD on Mechanised Paddy farming among 10 farmers and organized. FLD on Drudgery reduction in Banana fibre extraction among 10 farm women. We have organized 3 weeks long training involving 60 farmers on Farm mechanization.
7.				 Mr.Pon Dhanapalan, Programme Executive, All India Radio, Madurai Form Farmers Group under contract farming to avail fair price. 	We have linked medicinal plant growers with constract farming set up.
				 Popularize technical knowledge on export procedure and organic farming practices among farmers. 	We have organized 3 training on organic farming for 26 farmers.
8.				 Dr.V.Palanichamy, Programme Coordinator, KVK Kundrakudi, Sivagangai Strengthen marketing through Precision Farming Associations. Organizing vocational trainings for para veterinarians like farmers/farm women on first aid measures and 	We have motivated precision farming associations to utilize marketing demand available at Kerala. We have motivated rural youths to visit FTC, TANUVAS for getting training on first aid measures and to function as paraveterinarian.
9.				utilize various NABARD schemes. Mr.K.N.Selva Kumar, Progressive Banana grower, Erasakkanayakkanur • Popularise advanced technologies to avoid diseases in Grand Naine banana.	We have organized a FLD on Sigatoka Leaf Spot Management with the participation of 12 farmers in an area of 5 ha and organized 6 Training programmes on IPM with participation of 100 farmers.
10.				 Mr.K.Kumaran, Deputy Agricultural Officer, Chinnamanur Create awareness on the importance of application of micronutrients. 	We have organized FLD on TNAU Maize Maxim, Sugarcane Booster, Pulse Wonder, IIHR Vegetable Special, Banana Special, Mango Special for creating awareness on micronutrients.
				Conserving ground water under	We have orgainsed a week long training for 20

SI.	Date	Number of	No. of	Salient Recommendations	Action taken
No.		Participants	absentees		
				changing agro climatic conditions.	farmers on water management through sprinkler and drip irrigation and water saving devices.
11.				 Dr.S.Sakthivel, Associate Professor, Agricultural Research Station, Vaigaidam Create awareness on suitable varieties and use of quality seeds. 	We are popularizing various latest varieties and quality seeds among farmers through FLD Programmes.
				 Organize training on seed production and involving farmers in seed production and developing farmers as seed growers. 	We have organized a training on seed production in pulses with participation of 50 farmers and linked farmers with Sri Hari Seeds for quality seed production.
12.				 Dr.Perinbam, Deputy Director, Spices Board, Kumuli Promote technologies on cardamom cultivation. 	We have developed unemployed graduate as agri business consultant and popularised cardamom production technologies.
13.				Dr.Murali Krishnasamy, Programme Coordinator, KVK, Virudhunagar • Promoting Guinea Grass cultivation.	We have conducted FLD on Mixed fodder and popularized various fodder crops.
				Organise OFT involving Co 23, Co 24 sugarcane varieties.	We have conducted FLD on Sugarcane. We have popularized CO 86032 variety along with FLD on popularization of ICM with Sugarcane Booster among farmers of Theni district. The OFT involving varieties Co 23, Co 24 will be organized in the next year.
				 Organise vegetable seed production with the tie up arrangement with National Seeds Corporation 	We have established rapport with NHRDF for seed production of French Beans by farmers.
14.				 Dr.S.K.Gopal, Programme Coordinator, KVK Gandhigram Create awareness on calf rearing, global warming. 	We have motivated the farmers to go for calf rearing for getting higher price. Dr.P.Marimuthu, Programme Coordinator Coordinator has participated in the preparatory meeting for holding a State Level Conference on Climate Change organized by Citizen Global Platform at Denobili, Madurai, National Workshop on search of Alternative Paradigm in the Context of Climate dissortion organised by Citizens Global Platform at GB Plant Institute of Himalayan Environment and Development, Almora, and Regional Conference on the impact of Climate Change on Sustainable development and means of mitigation" organized by NGO Networks at KVK, Dindugal.
				Utilize Central Fodder Crops Research Institute for fodder demonstration.	we nave conducted FLD on Mixed fodder and popularized various fodder crops. We will establish rapport with CFCRI for conducting demonstration.

PART II - DETAILS OF DISTRICT

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

S. No	S. No Farming system/enterprise									
	The total geographical area of the district is 288923Ha.Forest occupies 35.9% of total area. Net									
	area	a cultivate	ed occupies 40.7%.T	The nine	fold lar	nd clas	ssification of 7	Theni district	is as follows:	
		Sl.No Classification		i Area (Ha)		Ha)	% to T	otal		
		1.	Forests		10371	8	35.	9		
		2.	Barren & Uncultivable land		1076	8	3.7	,		
		3.	Land put to N Agrl.Use	Non -	21940 7.6		5			
		4.	Cultivable waste		4438	3	1.5	i		
		5.	Permanent Pasture		314		0.1			
		6.	Misc.Tree crops		998		0.3	5		
		7.	Current fallows		2160	1	7.5	i		
		8.	Others fallows		1190	8	4.1			
		9.	Net area cultivated		11323	38	39.	3		
		TOTA	L		28892	3	100.	.0		
				Ext	tent			Food	crops	
		Sl.No.	Crop	Cultivated		%	o to Total	occupy 38.	9% of total	
				(Ha)				gross area	cultivated.	
		1.	Paddy	18:	582		14.4	About 8.49	% of area	
		2.	Millets	2138 1027	383	16.6		comes under coconut,		
		3.	Pulses		275 7.9	which is steadily increasing year by year.				
	4.		Cotton	76	526 5.9		5.9			
		5.	Sugarcane	120	688		9.8	Horticultura	l crops	
		6.	Oilseeds	138	879		10.7	occupy 25.	1% of area	
		7.	Coconut	10845			8.4	due to fav	orable agro	
		8.	Spices and condiments	39	024		3.0	climatic condition and assured market.	ndition and market.	
		9.	Fruits		14983		11.5	Oilseeds,	Cotton and	
		10.	Vegetables	51	.63		3.9	10.7% 5.00	occupy	
		11.	Silk cotton	26	514		2.0	10.7%, 5.9%	o allu 9.8%	
		12.	Coffee	38	36		2.9	respectively	·	
		13.	Tea	16	542		1.2			
		14.	Other medicinal crops	42	28		0.3			
		15. Fodder and forage		53	33		0.4			
		16.	Flowers		348		0.3			
		17.	Other misc. crops		1051		0.8			
	TOTAL			1	29800		100.0			

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

S. No	Agro-climatic Zone	Characteristics
1.	Southern Zone. Based on the rainfall distribution, irrigation	Annual rainfall 857 mm, Annual potential evapo
	pattern, soil characteristics, cropping pattern and	transpiration -1825
	physical, ecological and social characteristics, 90% of Theni	
	district fit into Southern Zone and the area adjoining to	
	Western ghats fit into Western Zone accounting for 10% of	
	area.	

S. No	Agro ecological situation	Characteristics
1.	South western portion of VIII Agro ecological Zone of India	Eastern Ghats: A north south range of hills part of
	Tamil Nadu uplands hot semi arid eco region	Western Ghats marks west boundary with Kerala.
		Palani hills from Northern:Palani hills form northern
		spur and high wave mountain andipatty and varusanadu
		forms southern spur. The rest is undulating plain,
		cumbum valley is noted for thick vegetation. Altitude
		ranges from 200 to 400 m in the plains. Altitude ranges
		as high as 2400 m in the hills.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Red calcareous	Yellowish red to dark red, Medium texture, Neutral to	13259
		mild alkaline, well drained and moderate permeability	
2.	Red non calcareous	Moderate deep red to yellowish medium textured ,slightly	23670
		acidic to neutral well drained with rapid permeability	
3.	Red lateritic calcareous	Dark reddish brown to brown heavy textured slightly	24644
		acidic to neutral, well drained with moderate permeability	
4.	Red lateritic non calcareous	Yellowish red to very deep heavy textured neutral to mild	41667
		alkaline moderate permeability, moderately drained	
5.	Black soil	Dark grey to very dark grey fine textured mild to moderate	2727
		alkaline slow permeability poorly dried	
6	Mixed soil	Dark yellowish grey to dark grey fine textured to	23526
		moderate, neutral to mild alkaline well drained good	
		permeability	
7	Sand dunes	Yellowish red, single grain, loose, very friable, well	10900
		drained with good permeability.	
8.	Hilly soils	Dark yellowish gray to very dark gray, heavy textured,	147471
		acidic, well drained with good permeability.	

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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1.	Rice	17000	6700000	4033
2.	Sorghum	14200	2200000	1548
3.	Cumbu	5300	800000	1501
4.	Ragi	100	10000	1664
5.	Maize	6200	1240000	2005
6.	Redgram	3000	330000	1095
7.	Blackgram	200	10000	367
8.	Greengram	200	10000	399
9.	Other pulses	5100	90000	173
10.	Groundnut	2600	620000	2389
11.	Sunflower	200	20000	949
12.	Castor	100	183	183
13.	Gingelly	400	10000	356
14.	Coconut	15000	2314.88 lakh nuts	15533 nuts
15.	Sugarcane	5900	72300 t	1225
16.	Mango	8582	600740	70
17.	Banana	3328	2346240	700
18.	Grapes	1937	439700	227
19.	Tomato	2394	229820	96
20.	Brinjal	372	24920	67
21.	Bhendi	137	11650	85
22.	Onion	478	46840	98
23.	Cabbage	172	83420	485
24.	Moringa	1017	508500	500
25.	Cauliflower	47	9400	200
26.	Cashew	5520	27600	5

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

2.5. Weather data

Month	Rainfall (mm)	Temperature ⁰ C		Relative Humidity (%)
		Maximum	Minimum	
April 2010	54.3	39.5	19.5	53.0
May 2010	61.2	40.5	23.0	51.5
June 2010	60.5	37.0	22.0	58.5
July 2010	70.9	36.5	22.5	62.0
August 2010	125.6	34.0	24.0	71.5
September 2010	73.3	37.5	21.5	51.5
October 2010	245.1	37.0	21.0	60.5
November 2010	59.8	32.0	17.0	59.5
December 2010	20.3	31.0	16.5	50.0
January 2011	3.7	33.0	15.0	52.5
February 2011	0	37.5	16.0	42.0
March 2011	1.4	37.3	21.5	54.4

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

2.6. Production and	l productivity	of livestock,	Poultry.	, Fisheries	etc. in	the district
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Category	Population	Production	Productivity
Cattle			
Crossbred	74277	133698600 lt	10 lt
Indigenous	28663	20637360 lt	4 lt
Buffalo	39650	42822000 lt	6 lt
Sheep			
Crossbred	33515	837875 kg	25 kg
Indigenous	18732	374640 kg	20 kg
Goats	83454	2086350 kg	25 kg
Pigs			
Crossbred	9050	452500 kg	
Indigenous	12524	438340 kg	
Rabbits	1070	5350 kg	
Poultry			
Hens	244337	366506 kg	1.5 kg
Desi	44293	88586 kg	2 kg
Improved	147745	221618 kg	1.5 kg
Ducks	974	2435 kg	2.5 kg
Turkey and others	992	7936 kg	8 kg

Category	Area	Production	Productivity
Fish			
Marine			
Inland	20	10795 kg	540 kg
Prawn			
Scampi			
Shrimp			

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

2.7 District profile has been prepared and submitted % 2.7 Yes $^{\prime}$ Yes $^{\prime}$ Yes $^{\prime}$

2.8 Details of Operational area / Villages

Sl.No	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
	Uthamapalaya m	Cumbum	Puthupatti, Hanumanthanpatti, Kakilsikkayanpatti, Narayanathevanpatt i	4 years	Grapes	1.Downy Mildew 2. Improper Water and Nutrient Management 3.Post harvest losses, Lack of knowledge about grape squash and juice preparation	Popularization of Integrated Disease Management, Popularization of Integrated Water Management, Popularization of Integrated Nutrient Management, Popularization of Processing and Value addition
					Banana	1.Low yield & low density of population and less productivity and profitability 2. Drudgery in banana fibre extraction 3.Nutrient deficiency 4.Sigatoka leaf spot 5. Pseudostem weevil 6.High labour requirement and Ineffective conventional Pit digging 7. Ineffective conventional waste disposal	Popularization of Integrated Crop Management, Popularization of Drudgery Reduction Technologies, Popularization of Integrated Nutrient Management, Popularization of Integrated Disease Management, Integrated Pest Management
					Coconut	1.Problem in tree climbing and Labour scarcity for coconut harvesting 2.Root wilt disease 3.Button Shedding	Popularization of Drudgery Reduction Technologies, Popularization of Integrated Disease Management, Popularization of Integrated Nutrient Management
1		Uthamapal ayam	Rayappan Patti, Chinnaovulapuram, Ammapatti, Ellapatti	4 years	Banana	1.Low yield & low density of population and less productivity and profitability 2. Drudgery in banana fibre extraction 3.Nutrient deficiency 4.Sigatoka leaf spot 5. Pseudostem weevil 6.High labour requirement and Ineffective conventional Pit digging 7. Ineffective conventional waste disposal	Popularization of Integrated Crop Management, Popularization of Drudgery Reduction Technologies, Popularization of Integrated Nutrient Management, Popularization of Integrated Disease Management, Popularization of Integrated Pest Management
					French Beans	Non availability of quality seeds,Cultivation of old varieties, Not following ICM practices	Varietal Introduction, Popularization of Integrated Crop Management
					Brinjal	1.Improper Nutrient Management and Micronutrients disorder 2.Mealy bug, Fruit borer 3.Vein clearing, Mosaic	Popularization of INM, Popularization of IPM, Popularization of IDM
		Chinnaman ur			Betel vine	Improper betel vine cultivation with frequent incidence of Phytopthora wilt	Popularization of IDM
			Sangarapram, Pottipuram, Kutchanoor, Chinnamanur, Markayan Kottai, Pullikuthi, Erasi	6 years	Paddy	 Brown Leaf Spot High cost and Drudgery in weeding Poor yield and Non availability of quality seeds Yellow Stem Borer and Leaf Folder Shealth Blight High labour cost for 	Popularization of IDM, Popularization of Drudgery Reduction Technologies, Hybrid Introduction, Popularization of IPM, Popularization of IDM

Sl.No	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
						manual transplanting	
					Cumbu	1.Poor yield 2.Iimproper Nutrient Management 3.Nutrient Deficiencies 4.Incidence of Heliothis 5.Ergot	Varietal Introduction , Popularization of INM, Popularization of IPM, Popularization of IDM
					Sunflower	1.Non availability of quality seeds 2.Poor seed setting 3.Improper Nutrient Management	Hybrid Introduction, Popularization of INM
					Groundnut	1.Non availability of quality seeds and improved varieties and practices 2.Nutrient deficiencies 3. Lack of Water availability	Varietal Introduction , Popularization of ICM,Popularization of INM, Popularization of IPM
					Cotton	 Reddening of Leaf Repeated use of old varieties and use of poor quality seeds Mealybug Whitefly Imbalanced fertilizer application Lack of drought tolerant varieties 	Popularization of INM, Varietal Introduction, Popularization of IPM
					Cowpea	1.Poor yield 2.Nutrient deficiencies	Popularization of ICM,Popularization of INM
2	Bodinayakanu r	Bodinayaka nur	Rasigapuram,Silam alai, Maniyampatti, Silamarathupatti, Dombucherry, Manickapuram, Bathrakalipuram	4 years	Dairy Cattle	1.Mineral deficiency in Cattle 2.Infertility in dairy cows 3.Non-availability of quality fodder crops 4.FMD 5.Lack of knowledge on feed preparation 6.Lack of knowledge on fodder preservation 7.Lack of Veterinary services in Remote area 8.Non availability of quality fodders and non cultivation of new varieties under Mixed Fodder condition	Popularization of INM, Varietal Introduction , Popularization of ICM, Popularization of IDM
					Conservation of Agriculture	1.Exploitation of Natural Resources 2.Decreasing Soil Fertility 3.Moving Agro Ecological Zones 4.Drought	Popularization of Conservation of Agriculture
3	Theni	Theni	Kottur, Seelayampatti, Kuppinayakkanpatti , VC puram, Jangalpatti, Alagapuri	6 years	Paddy	 Brown Leaf Spot High cost and Drudgery in weeding Poor yield and Non availability of quality seeds Yellow Stem Borer and Leaf Folder Shealth Blight High labour cost for manual transplanting 	Popularization of IDM, Popularization of Drudgery Reduction Technologies, Hybrid Introduction, Popularization of IPM
					Maize	 Improper Nutrient Management Micro nutrient deficiencies 	Popularization of INM

Sl.No	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
					Redgram	1.Lower yield due to unpredictable and erratic rainfall 2.Poor germination and poor field establishment 3.Non availability of quality seeds and cultivation of old varieties 4.Pod borer 5.Iimproper Nutrient Management 6.Pulse beetle during storage	Popularization of ICM, Varietal Introduction, Popularization of INM, Popularization of IPM
					Green gram	1.Non availability of quality seeds and cultivation of old varieties 2.Deficit water supply 3.Improper Nutrient Management 4.Pod borer	Varietal Introduction , Popularization of Integrated Water Management Popularization of INM, Popularization of IPM
					Black gram	1.Non availability of quality seeds and cultivation of old varieties 2.Improper Nutrient Management 3.Pod borer	Varietal Introduction , Popularization of INM, Popularization of IPM
					Poultry Farming	Ranikhet disease in Desi Chicken	Popularization of IDM
		Periyakula m			Sugarcane	1.Low yield and quality of Cane 2.Improper Nutrient Management 3.Heavy Labour Requirement	Popularization of INM, Popularization of Drudgery Reduction Technologies,
4	Periyakulam		kula Lakshmipuram, Kumbakarai	3 years	Mango	1.Improper Nutrient Management and Nutrient deficiency 2.Non Flowering	Popularization of INM, Popularization of ICM
					Sericulture	1.Poor yield 2.Mealy bug 3.Nutrient deficiency 4.Poor management of Mulbery	Varietal Introduction , Popularization of IPM, Popularization of INM, Popularization of ICM
			Vendemenn		Cashew	1.Tea Mosquito Bug menace 2.Unutilised cashew apple	Popularization of IPM, Popularization of Processing and Value addition
		Myladump arai	Kandamanur, Kadamalaikundu, Thangammalpuram.	3 years	Cardamom	Thrips infestation in berries	Popularization of IPM
			Bommarajapuram		Tomato	1.Fruit Cracking and poor nutrient management 2.Fruit borer infestation	Popularization of INM, Popularization of IPM
5	Andipatti				Sorghum	1.Poor quality seeds 2.Cultivation of old varieties 3.Nutrient Deficiency 4.Shootfly	Varietal Introduction , Popularization of INM, Popularization of IPM
		Andipatti	dipatti Renganathapuram, Boominayakanpatti, Kathirnarasingapur am	3 years	Moringa	1.Fruit fly incidence, 2.Flower dropping 3.Poor knowledge about nutritive value of moringa	Popularization of IPM, Popularization of INM, Popularization of Processing and Value addition
		Andipatti			Castor	1.Poor yield 2.Poor Nutrient Management, 3.Spodoptera, Semi lopper, Capsule borer 4.Seed damage during Manual shelling and high cost of Manual shelling	Hybrid Introduction, Popularization of INM, Popularization of IPM, Popularization of Drudgery Reduction Technologies

Sl.No	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas	
						Lack of knowledge about household food security	Popularisation of Nutrition Garden	
						Under utilized agricultural waste, More time for collection o fuel wood by rural women,Environmental pollution of smoke during cooking	Popularisation of Biomas Stove	
						Underutilized fruits and vegetables	Popularization of Processing and Value addition	
					Home	High labour cost and unavailability of labour and Drudgery among farm women	Popularisation of Drudgery Reduction Technologies	
					Science	Lack of knowledge about women and child care	Education on women and child care	
					-		Less awareness on food resources for Pregnant and lactating mother	Education on Nutrition for Pregnant and lactating mother
						Less awareness on food resources for adolescent girls	Education on Nutrition for Adolescent girls	
						Low income and less employment opportunity for rural women	Empowerment of rural Women through vocational training	
						Mal nutrition among chidden	Popularisation of Low Cost Nutrient Mix	

2.9 Priority thrust areas

S. No	Thrust area
1	Varietal/ Hybrid Introduction
2	Popularization of Integrated Disease Management
3	Popularization of Integrated Nutrient Management
4	Popularization of Integrated Pest Management
5	Popularization of Integrated Crop Management
6	Popularization of Drudgery Reduction Technologies
7	Popularization of Processing and Value addition
8	Popularization of Conservation of Agriculture

PART III - TECHNICAL ACHIEVEMENTS

	0	FT		FLD						
	-	1		2						
Num	ber of OFTs	Numb	er of farmers	Num	ber of FLDs	Number of farmers				
Targets	Achievement	Targets	Achievement	Targets	Targets Achievement		Achievement			
10	10	91	97	19	19 19		204			

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

	Trai	ining		Extension Programmes					
		3		4					
Numb	er of Courses	Number	of Participants	Number of Programmes Number of partici					
Targets	Achievement	Targets	Achievement	Targets	Targets Achievement		Achievement		
144	174	2880	3787	1116	1030	9800	12474		

Seed Proc	luction (Qtl.)	Planting materials (Nos.)					
	5	6					
Target	Achievement	Target	Achievement				
20 q	53.5 q	3000 Nos	3000 Nos				

Livestock, poultry stra	ains and fingerlings (No.)	Bio-products (Kg)					
	7	8					
Target	Achievement	Target	Achievement				
15	2	1100 kg	7159 kg				

								Interver	ntions					
S. N o	Thru st area	Crop/ Enter prise	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)	Extens ion activiti es (No.)	Suppl y of seeds (Qtl.)	Supply of planting materia ls (No.)	Suppl y of livesto ck (No.)	Supply prod	of bio ucts
1	Tata	D. LI	1. Day	1	1.1014	15			20	G 1			No	Kg
1	Integ rated Disea	Paddy	1. Brown Leaf Spot 2. High cost and	1.Assess ment of Managem	1. IPM in Paddy and Management	15	-	-	39	Seed – 8 kg	-	-	Azadırach tin 1 %	500 ml/ha
	se Mana geme		Drudgery in weeding 3. Poor yield	ent of Brown Leaf Spot	of yellow stem borer and leaf								Trichogra mma japonicam	5 cc/ha
	nt		and Non availability of quality seeds 4 Vallow Stem	in Paddy 2.Assess ment of Performan	folder in paddy 2. CORH 3 rice hybrid								Pheromon e traps	12 /ha
			 Fendow Stell Borer and Leaf Folder Shealth Blight High labour 	ce and Suitability of various Weeders	with SRI with management of Sheath								Trichogra mma chilonis	5 cc/ha
			cost for manual transplanting	in SRI Paddy Cultivatio	blight in Paddy 3.								Azospirill um	13 pkts
				n	Mechanised Paddy Farming.								Phosphob acteria	13 pkts
					_								Pseudomo nas	100 gm
													Pseudomo nas	17 kg
2	Integ	Maize	1. Improper	-	Popularizatio	4	-	-	13		-	-	-	-
	rated Nutri ent Mana geme nt		Nutrient Management 2. Micro nutrient deficiencies		n of ICM with TNAU Maize Maxim									
3	Varie	Sorghu	1.Poor quality	-	1.Cultivation	8	-	-	23	Seeds	-	-	Azospirill	13 pkts
	tal Intro ducti on	m	seeds 2.Cultivation of old varieties 3.Nutrient Deficiency 4.Shootfly		of CO(S) 28 Sorghum					– 37.5 kg			um Phosphob acteria	13 pkts
4	Integ rated Crop Mana geme nt	Redgra m	1.Lower yield due to unpredictable and erratic rainfall 2.Poor germination and poor field establishment 3.Non availability of quality seeds and cultivation of old varietics 4.Pod borer 5.limproper Nutrient Management 6.Pulse beetle during storage	Assessme nt of Suitable Planting Method in Redgram		1	-	-	11	LRG 41 – 40 kg	-	-	-	-
5	Integ rated Crop Mana geme nt	Green gram	1.Non availability of quality seeds and cultivation of old varieties 2.Deficit water supply 3.Improper Nutrient Management 4.Pod borer	-	1)Cultivation of CO 7 Green gram 2.Introductio n of Mini Mobile Sprinkler	9	-	-	24	Seed – 25 kg	-	-	Trichoder ma viride Rhizobiu m Phosphob acteria	200 gm 13 pkts 13 pkts
6	Integ rated Nutri ent Mana geme nt, and Integ	Cotton	1. Reddening of Leaf 2.Repeated use of old varieties and use of poor quality seeds 3. Mealybug 4.Whitefly 5.Imbalanced	Assessme nt of Leaf Reddenin g Managem ent in Cotton	1.Mealybug Management in Cotton	9	-	-	12	-	-	-	-	-

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

Γ					Interventions										
	S. N 0	Thru st area	Crop/ Enter prise	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)	Extens ion activiti es (No.)	Suppl y of seeds (Qtl.)	Supply of planting materia ls (No.)	Suppl y of livesto ck (No.)	Supply prod	of bio ucts
		rated Pest Mana geme nt		fertilizer application 6.Lack of drought tolerant varieties										No	Kg
	7	Integ rated Crop Mana geme nt	Sugarc ane	1.Low yield and quality of Cane 2.Improper Nutrient Management 3.Heavy Labour Requirement		Popularizatio n of ICM with TNAU Sugarcane Booster	6	-	-	7	-	-	-	-	-
	8	Integ rated Disea se Mana geme nt	Grapes	1.Downy Mildew 2. Improper Water and Nutrient Management 3.Post harvest losses, Lack of knowledge about grape squash and juice preparation	Assessme nt of Managem ent of Downy Mildew in Grapes		3	-	-	11	-	-	-	-	-
	9	Integ rated Crop Mana geme nt	Banan a	1.Low yield & low density of population and less productivity and profitability 2. Drudgery in banana fibre extraction 3.Nutrient deficiency 4.Sigatoka leaf spot 5. Pseudostem weevil 6.High labour requirement and Ineffective conventional Pit digging 7. Ineffective conventional	1.Assess ment of Suitable method of planting in Banana for higher productivi ty	1. Drudgery reduction in Banana Fibre Extraction 2.IIHR Banana Special in nutrient management 3. IDM in Banana with Management of Sigatoka Leaf Spot in Banana 4.IPM in Banana with Management of Pseudostem weevil	28	-	-	94	-	Suckers - 9880	-	Baevaria bassiana	6 kg
	10	Integ rated Pest Mana geme nt	Cashe w	Tea Mosquito Bug menace 2.Unutilised cashew apple	-	Management of Tea mosquito bug in Cashew	2	-	-	5	-	-	-	-	-
	11	Integ rated Disea se Mana geme nt	Betel vine	Improper betel vine cultivation with frequent incidence of Phytopthora wilt	Assessme nt of Managem ent of Phytoptho ra Wilt in Betel vine	-	2	-	-	10	-	-	-	Trochoder ma Neem Cake	10 kg 300 kg
	12	Integ rated Nutri ent Mana geme nt	Brinjal	1.Improper Nutrient Management and Micronutrients disorder 2.Mealy bug, Fruit borer 3.Vein clearing, Mosaic	-	INM in Brinjal	1	-	-	2	-	-	-	-	-
	13	Integ rated Nutri ent Mana geme nt	Mango	1.Improper Nutrient Management and Nutrient deficiency 2.Non Flowering	-	INM in Mango	1	-	-	6	-	-	-	-	-
	14	Varie tal Intro ducti on	French Beans	Non availability of quality seeds, Cultivation of old varieties, Not following	Assessme nt of new French Bean variety –	Popularizatio n of Arka Suvidha	2	-	-	7	Seeds – 195 kg	-	-	-	-

				Interventions										
S. N o	Thru st area	Crop/ Enter prise	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)	Extens ion activiti es (No.)	Suppl y of seeds (Qtl.)	Supply of planting materia ls (No.)	Suppl y of livesto ck (No.)	Supply prod	of bio ucts
													No	Kg
			ICM practices	Arka Anoop										
15	Anim al Cattl e Mana geme nt	Dairy Cattle	1.Mineral deficiency in Cattle 2.Infertility in dairy cows 3.Non- availability of quality fodder crops 4.FMD 5.Lack of knowledge on feed preparation 6.Lack of knowledge on fodder preservation 7.Lack of Veterinary services in Remote area 8.Non availability of quality fodders and non cultivation of new varieties under Mixed Fodder	Assessme nt of area specific mineral mixture For Dairy Cows	1. Popularizatio n of Mixed Fodder	2		-	4	CoFS- 29 – 5 kg Desma nthus – 5 kg Agathi – 2.5 kg Subab ul – 5 kg	Cumbu napier Co-4 - 20,000 sets	-	-	-
16	Poult ry Disea se Mana geme nt	Poultry farmin g	No Vaccination or Management for Ranikhet disease in Desi Chicken	Assessme nt of Oral Pellet Vaccinati on in Desi Chicken	-	-	-	-	1	-	-	-	-	-
17	Hom e scien ce Mana geme nt	Home science	1.Not keeping vegetables in preservators and less shelf life under open condition 2.Labour scarcity 3.Post harvest loss 4.Malnutrition among children	-	Introduction of vegetable preservator (CRIDA model)	4	-	-	9	-	-	-	-	-

3.B2. Details of technology used during reporting period

C No	T:41a of Teehneleen	Courses of teaching look	Cuentemice		No.o	f programmes o	conducted
5.110	The of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Extension Activities
1	2	3	4	5	6	7	8
1	Assessment of Suitable Planting Method in Banana for higher profitability	NRCB, Trichy	Banana	1	-	7	22
2	Assessment of Management of Downy Mildew in Grapes	NRCG	Grapes	1	-	3	11
3	Assessment of Management of Phytopthora Wilt in Betel vine	TNAU	Betelvine	1	-	2	10
4	Assessment of Brown Leaf Spot in Paddy	CRRI, Cuttack	Paddy	1	-	5	7
5	Assessment of Performance and Suitability of various Weeders in Paddy Cultivation	KVK, Madurai	Paddy	1	-	3	2
6	Assessment of new French Bean variety – Arka Anoop	IIHR, Bangalore	French Bean	1	-	1	5
7	Assessment of Leaf Reddening Management in Cotton	Farmers Innovation	Cotton	1	-	5	4
8	Poultry Farming	TANUVAS, Chennai	Desi Chick	1	-	-	1
9	Dairy Farming	TANUVAS, Chennai	Dairy	1	-	-	1
10	Assessment of Suitable Planting Method in Redgram	UAS, Dharwad	Redgram	1	-	1	11

11	Popularization of Co S 28	TNAU	Sorghum	-	1	4	13
12	Popularization of ICM with	TNAU	Sugarcane	-	1	6	7
	TNAU Sugarcane Booster		_				
13	Popularization of ICM with	TNAU	Maize	-	1	8	23
	TNAU Maize Maxim						
14	ICM in Banana and IIHR	IIHR	Banana	-	1	7	22
	Banana special in nutrient						
	management						
15	IPM in Paddy and	TNAU	Paddy	-	1	5	11
	Management of vellow stem						
	borer and Leaf folder in paddy						
	oorer and Bear folder in paudy						
16	IDM in Banana with	TNAU	Banana	-	1	6	17
	Management of Sigatoka Leaf						
	Spot in Banana						
17	Introduction of vegetable	CRIDA	Vegetable Preservator	-	1	4	9
	preservator (CRIDA model)		Ũ				
18	Introduction of Mini Mobile	TNAU	Greengram	-	1	4	15
	Sprinkler		_				
19	CO RH 3 Hybrid with SRI	TNAU	Rice	-	1	3	11
	with management of Shealth						
	blight in Paddy						
20	Popularization of Arka	IIHR	French Bean	-	1	1	5
	Suvidha						
21	Popularization of Mixed	TANUVAS	Fodder	-	1	2	4
	Fodder						
22		NRCB	Banana	-	1	5	6
	IPM in Banana with				-	-	
	Management of Pseudostem						
22	weevii	E I I	Descent		1	2	7
23	Drudgery reduction in Banana	Farmers Innovation	Banana	-	1	3	/
24	FIDE EXTRACTION	TNIALI	Casham		1	2	5
24	hun in Cashaw	INAU	Casnew	-	1	2	5
25	Maalahaa Managamant in	TNIALI	Cattan		1	4	3
25	Cotton	INAU	Cotton	-	1	4	3
26	INM in Priniel	шир	Prinio	1	1	1	2
20	INIVI III DIIIIJal INIM in Mango		Mango	-	1	1	2
21	Machanizad Daddy Farmir -		Daddy	+ -	1	3	7
28	Introduction of improved	TNAU	Groongrom	-	1	5	/ 0
29	variety Co(Gg) 7 with seed	INAU	Greengram	-	1	5	7
1	rate of 25 Kg/ba						
	rate of 25 Kg/lia			10	10	101	259
				10	17	101	437

3.B2 contd..

						N	o. of farm	ers covere	ed						
	Ol	FT			FI	.D			Trai	ning			Extension	Activities	
Gen	neral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	SC	/ST
Μ	F	М	F	Μ	F	М	F	Μ	F	М	F	Μ	F	М	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
3	-	-	-	-	-	-	-	59	9	18	21	125	12	7	0
5	-	-	-	-	-	-	-	27	-	8	1	44	-	5	-
5	-	-	-	-	-	-	-	26	-	-	-	57	-	5	-
5	-	-	-	-	-	-	-	36	33	7	-	60	2	10	-
5	-	-	-	-	-	-	-	36	14	2	8	65	6	3	-
5	-	-	-	-	-	-	-	10	2	5	2	17	-	6	-
5	-	-	-	-	-	-	-	25	-	-	-	33	7	-	-
40	10	-	-	-	-	-	-	-	-	-	-	30	6	10	-
8	2	-	-	-	-	-	-	-	-	-	-	8	2	-	-
4	-	-	-	-	-	-	-	8	4	-	-	72	3	-	-
-	-	-	-	12	-	-	-	45	4	1	-	140	14	-	6
-	-	-	-	10	-	-	-	72	17	19	19	92	17	21	8
-	-	-	-	10	-	-	-	89	14	4	-	221	16	8	9
-	-	-	-	12	-	-	-	-	3	59	4	8	2	78	4
-	-	-	-	12	-	-	-	50	24	12	9	49	15	2	2
-	-	-	-	12	-	-	-	69	28	9	8	130	27	21	11
-	-	-	-	-	8	-	2	-	52	-	14	-	67	-	42
-	-	-	-	-	10	-	2	37	35	26	19	64	12	5	7
-	-	-	-	12	-	-	-	72	29	3	19	131	12	7	-
-	-	-	-	8	-	2	-	7	4	2	1	35	20	8	3
-	-	-	-	-	10	-	10	-	-	7	5	-	-	49	27
-	-	-	-	10	-	-	-	36	22	7	10	44	12	15	7
-	-	-	-	-	8	-	2	-	27	-	23	-	62	-	27
-	-	-	-	10	-	-	-	10	8	10	4	30	40	47	20
-	-	-	-	12	-	-	-	48	-	10	-	33	-	13	-
-	-	-	-	10	-	-	-	10	-	1	-	27	-	4	-
-	-	-	-	5	-	5	-	35	14	9	25	85	12	32	-
-	-	-	-	-	5	-	5	-	7	-	5	-	23	-	12
-	-	-	-	12	-	-	-	-	3	59	4	8	2	78	4
85	12	-	-	147	41	7	21	807	353	278	201	1608	391	434	189

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management				1						1
Varietal Evaluation										
Integrated Pest Management										
Integrated Crop Management			1		1	1				3
Integrated Disease Management	1					1		1		3
Small Scale Income Generation										
Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction	1									1
Storage Technique										
Mushroom cultivation										
Total	2		1	1	1	2		1		8

PART IV - On Farm Trial

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 NIL

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	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	1	1				2

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

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

4.B.1. Technologies Assessed under various Crops

Thematic areas	Сгор	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Integrated Nutrient Management	Cotton	Leaf Reddening Management in Cotton	5	5	6
integrated Nutrient Management					
Varietal Evaluation	French Bean	New French Bean Variety – Arka Anoop	5	5	3
Integrated Pest Management					-
Integrated Crop Management	Banana	Suitable Planting method in Banana for higher profitability	3	3	0.9
	Red gram	Assessment of Suitable Planting Method inRedgram	4	4	2.4
Integrated Disease Management	Grapes	Management of Downy Mildew in Grapes	5	5	3
	Betelvine	Management of Phytopthora Wilt in Betelvine	5	5	3
	Paddy	Management of Brown Leaf Spot in Paddy	5	5	3
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					

Value addition					
Drudgery Reduction	Paddy	Assessment of Performance and suitability of various Weeders in SRI Paddy Cultivation	5	5	6
Storage Technique					
Mushroom cultivation					
Total			37	37	27.3

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					
Farm 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	Cow	Assessment of regular mineral mixture	10	10
Disease management	Poultry	Assessment of oral pellet vaccination in Desi Chicken	50	50
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total			60	60

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

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

Crop/ enterpr ise	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 refinemen t needed	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Grapes	Irrigated	1. Heavy incidence leading to severe reduction in yield.2.Indiscriminat e use of different combination of fungicides. 3. Downy mildew incidence in grapes in an area of 50 ha among 100 Puthupatti farmers.	4 Assessmen t of Downy Mildew in Grapes	5	AP 1 Four Spray of Copper hydroxide 2gm/lt at 15- 20 days interval to cover entire rainy period Source: NRCG AP 2 Spray Copper Fungicides (Bordeaux mixture 0.5%, Copper Oxide 2%,or COC 0.3%) Source IIHR, Bangalore	% of incidence at different levels, control efficiency, Percentage of damaged fruits, Percentage of Yield increase and Quality of fruits, yield, BCR	8 % of incidence at different levels. New Leaf Formation Stage: FP: 60.96, AP1: 61.2, AP2: 61.8, Vegetative Stage: FP: 30.46, RP: 35.66, AP1: 23.34, AP2: 29.3, Fruiting Stage: FP: 16.32, RP: 16.66, AP1: 18.24, AP2: 18.48, Control efficiency %, New Leaf Formation Stage: FP: 40.9, RP: 51.0, AP1: 34.8, AP2: 41.9, Vegetative Stage: FP: 50.4, RP: 50.0, AP1: 50.01, AP2: 58.9, Fruiting Stage: FP: 60.4, RP: 50.4, AP1: 4.3, RP: 33.3, AP1: 48.5, AP2: 62.2, Percentage of damaged fruits: FP: 11.11, RP: 9.64, AP1: 4.58, AP2: 1.3, Percentage of yield increase, RP: 9.8, AP1: 24.5, AP2: 39.1, Yield:FP: 20.46, RP: 22.48, AP1: 25.48, AP1: 26.42, AP1: 27.48, AP1: 27	y The yield in AP2 i4664 t/ha which is 39.1% increase over farmer practice.	IU Successiv e dose of copper fungicides prevent the disease spread. These doses have to be applied alternated with different trades and fresh preparatio ns.		
Betel vine	Irrigated	1. Heavy incidence leading to heavy yield loss 2. Non adoption of modern technologies for the management of the disease 3. Improper betel vine cultivation with frequent incidence of Phytopthora wilt in an area of 5 ha among 20 Chinnamanur farmers.	Assessmen t of Manageme nt of Phytopthor a Wilt in Betel vine	5	Integrated Method for the Management of Phytophthor a Wilt: 1.Apply 150 kg N/ha/year through Neem Cake (75 Kg N) and Urea (75 Kg N) and Urea (75 Kg N) and 100 kg P ₂ O ₅ through Super phosphate and 30 kg Muriate of potash in 3 split doses first at 15 days after lifting the vines and second and third dose at	% of incidence at different levels, control efficiency, Plant height, Number of branches per vine, Number of leaves per plant, yield, BCR	I:2.71,APII:3.05 % of incidence of different levels: Vegetative Stage: FP: 18.6, RP: 4.38, AP: 12.32, Harvesting Stage: FP:20.06.RP:4.6 1, AP:2.71, Control efficiency(%): FP: 12.5, RP: 93.06, AP: 98.41, Plant Height (Cm): FP: 215.73, RP: 226.09, AP: 235.71, No of branches per vine FP: 7, RP: 8, AP: 7, No of leaves per plant FP: 17, No of leaves per plant	The yield in Alternate Practice is 8.57 t/ha. This is 8.04% increase over recommend ed Practice and 31.39% increase over Farmers Practice.	The alternate practice with Neem cake applicatio n, Urea applicatio n, Super Phosphate increased the strength of vine. Together with this control measures with Bordeaux mixture 1% Calotroph is leavess		

Crop/ enterpr ise	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 refinemen t needed	Justificatio n for refinement
	2	3	4	5	6 40-45 days intervals. Apply on beds, shade dried neem leaves or Calotrophis leaves at 2 t/ha and cover it with mud (2 t in 2 split doses) 2.Drench Bordeaux mixture 1% in basins formed around the vine at monthly intervals starting from October – January, three times soil drench and six times spray from June- July 3.During winter season avoid frequent irrigation 4.Remove the affected vines way from the garden and burn them 5.Application of Alliette (Chlorathaloni 1) 3 g/lt 4 times monthly intervals 6.Application of Trichoderrma Viride @ 5 g/vine Source: TNAU,Coim batore	7	8 RP: 172 to 193, AP: 175 to 195, Yield FP: 6.55 t/ha, RP: 7.95 t/ha, AP: 8.57 t/ha, BCR: FP: 1.5, RP: 2.0, AP: 2.4	9	10 applicatio n with monthly interval, suitable plant protection measures such as applicatio n of Trichoder ma helps to control phytoptho ra wilt in betelvine. Though Sirugama ni-1 gives resistance, the leatherine ss and high pungency y leads to non preference among people.	11	12
Paddy	Irrigated	This disease has a worldwide distribution, and it has been reported in all rice growing tracts of Tamil Nadu during last year. The disease causes blight of seedlings grown from heavily infected seeds. These symptoms will appear during panicle initiation stage and also affected the grains. Farmers do not adopt preventive measures at the time of initial stage of the crop. Hence the assessment of technologies achieves expected results in control of disease which in turn results in good quality of seeds and higher yield. High incidence of brown leaf spot in paddy in am or 200	Assessmen t of Manageme nt of Brown Leaf Spot in Paddy	5	Seed treatment with <i>P fluroscence</i> @ 10g/ kgs of seeds + Seedling treatment with <i>P. fluroscens</i> @ 2.5 kg/ hectare @ Application of <i>P. fluroscens</i> @ 1 kg/ acre at 30 days after transplanting @ Foliar application of <i>P. fluroscens</i> @ 2.5 kg/ hectare at 45 DAT + Spraying Tricyclazole 75 WP @ 1gm /lit with the help of hand operated knapsack sprayer. Source: CRRI,	% of incidence at different stages, control efficiency, Percentage of yield increase and Quality of grains, yield, BCR	% of incidence at different stages Tillering Stage:95.3, Flowering Stage :89.4, Maturity Stage :81.7 Control Effeciency (%) Tillering Stage :10.01, Flowering Stage :8.72, Maturity Stage :3.54 Percentage of infested tillers FP:95.4%, RP:80.1%, AP:81.8%. Quality of grains: good, Yield FP:3990 Kg/ha, AP:6561 kg/ha, AP:6561 kg/ha, yield increase (%) RP:53.08, AP:64.40, BCR: FP:1.32, RP:2.02, AP:2.18	The yield in Alternate Practice is 6561 Kg/ha with yield increase of 64.40 over FP. Similarly the yield of recommend ed practice is 6092 Kg/ha than the farmers Practice 3990 Kg/ha which is 53.08 percent yield increase over control.	Seed and seedlings treatment, soil applicatio n of Pseudomo nas itself give resistance against the spread of Brown Leaf Spot and keep the spread of disease under check.		

Crop/				No					Faadbaak	Any	Instificatio
enterpr ise	Farming	Problem definition	Title of OFT	of	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	from the	refinemen	n for
130	situation		011	trials	rissessed	ussessment	purumeter	ussessment	farmer	t needed	refinement
1	2	3 Markana katai	4	5	6 Cutto als	7	8	9	10	11	12
		farmers.			Cuttack.						
French Beans	Irrigated	In the last two decades, the farmers are cultivating the French Beans as a remunerative crop. But the farmers are cultivating old variety and its having the characteristics of more fibre content and susceptible to rust diseases. The assessment of new variety having the following marketable characters like; 1.Resistant to bacterial and rust diseases 2.Plants are bushy and photo- insensitive 3.Pods are ready to harvest in 45 days after sowing 4.Pods are flat, smooth, long (17-18 cm) and crisp with less parchment 5.Average yield of 20/ha in 70 days 6. French beans (Phaseolus Vulgaris) are a predominant vegetable crop in Theni District. Though the crop is more remunerative for the past 15 years, the farmers are cultivating the same variety named Arka Komal. Consumer preference was very low for this variety due to its high fibre content and stringy characters. The farmers are not aware of the newly released varieties crop in an area of 100 ha among 70 Ellapatti farmers.	Assessmen t of new French Bean variety – Arka Anoop	4	Arka Anoop + 135:135:135 NPK per Ha + seed treatment with carbendezim 4 gram per kg seed, FYM: 25 tons per Ha. (basal application), Justification: Plants resistant to bacterial and rust Disease, plants are bushy, photo insensitive, developed between (Arka bold X Arka komal), pods are flat, smooth long (17-18 cm), crispy less parchment, yield (20 tons/ha)	Parameters to be assessed: 100 pod Weight, Pod colour, Yield, B:C Ratio. Consumer preference Test weight, Pod colour, Yield, Market preference, B:C ratio	Test Weight: FP: 139.6 gm, RP:139.92gm, AP:172.86gm. Yield: FP:8.4t/ha, RP:8.5 t/ha, BC Ratio: FP:1.8 RP:2.04: AP:2.85	The test weight of the Arka Anoop is 172.8gm followed by Arka Komal is 139.92gm and local variety: 139.6gm. The seed color is purple. The yield of Arka Anoop is 13.8 t/ha followed by Arka Komal 8.5 t/ha and in FP 8.4 t/ha The yield increase is 83.9% in Arka Anoop over Arka Komal variety.	The farmers revealed planting of Arka Anoop give resistance to bacterial rust disease found bushy in nature pods are flat, smooth, long and crispy in nature and less parchment and the yield is more compared to other varieties.		
Cotton	Irrigated	1. Reddening of leaf in cotton, 2. Reduced Boll size, 3. Poor boll bursting, 4. Reduced yield, 5. Reddening of leaf in cotton in an area of 50 ha among 150 Rasingapuram farmers.	Assessmen t of Leaf Reddening Manageme nt in Cotton	3	Variety: SVPR 2, Fertilizer: 80:40:40 Kg NPK/ha, Basal application 25 kg/ha of MgSO ₄ , Foliar application: 3% MgSO ₄ Source: Farmer's Innovation	Percentage of reduction in magnesium efficiency, yield,BCR.	% reduction in magnesium deficiency FP: 19.74, RP: 90.25, AP: 91.25. yield: FP:1335.3 kg/ha, RP:1738 Kg/ha, BCR: FP: 1.60, RP:1.80, AP:1.89	The yield of cotton under alternate practice is 1804 kg/ha in proportiona lly equal to recommend ed practice 1738 kg/ha in recommend ed practice. The spray of 5% MgS04 caused scorching effect in one tenth of the plants. Hence the leaves shown burnt appearance. The yield under farmer	Farmers under stood the importanc e of 3% MgSo4 spray in reducing leaf reddening in cotton and also realized the effect of increased percentag e of spray solution		

										1	1
Crop/ enterpr ise	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 refinemen t needed	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10	11	12
								practice is 1335.3 kg/ha which showed lowest yield than other 2			
Redgra m	Rain fed	1. To produce healthy seedlings through protray method 2. Transplanting, 3. Lower yield due to unpredictable and erratic rainfall, 4.Poor germination and poor field establishment in an area of 50 ha among 50 Kuppinayakkanpatti farmers.	Assessmen t of Suitable Planting Method in Redgram	4	Seedlings raised in Polythene bags and transplanted in Main field Source: UAS, Dharwad	Field stand and establishment, Cost of cultivation, labour requirement, yield, BCR	Germination Percentage FP:60.83%, RP:72.19%, AP:97.6%. Plant population/m2 FP:9.2, RP:10.8, AP:11.6. No. of Pods/plant FP: 612/plant, RP:657/plant, AP:700/plant. Yield: FP: 0.825 t/ha, RP:1.075 t/ha, AP:1.13 t/ha. BCR FP: 2.047, RP:2.12, AP: 2.67	The yield of Red gram in transplanted method assures good return with 1.13 t/ha followed by seed dibbling method which was recommende d earlier with an average yield of 1.075 t/ha. In transplanted method the causalities can be substituted with seedlings raised in polythene bags	The alternate practice (transplant ing method) was found effective in Redgram planting and it give more return more population occurred in this method.Al so delayed transplanti ng leads to flower dropping.		
Banana	Irrigated	The productivity of input and profitability of banana growers is decreasing and cost of cultivation is increasing every year. To improve the productivity of inputs and chances in the method of planting is important. Assessing the method of planting will provide solution to achieve higher productivity, profitability and remunerative income within the available resources. Low yield & low density of population and less productivity and profitability in an area of 250 ha among 200 Rayapanpatti farmers.	Assessmen t of Suitable Planting Method in Banana for higher profitabilit y	3	High density planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Hi gher population, higher yield and higher profitability Source : NRCB, Trichy	Number of hands/ bunch Number of fingers/bunch, Bunch weight, Yield/ham BCR	OFT is under progress				
Paddy	Irrigated	Mechanized farming is slowly get acceptance in many areas to overcome the labour shortage. In rice cultivation, weeding is a major concern to determine the yield of the crop. Though different type of weeders (Motorized weeder, Cono weeder and rotary weeder) is used for controlling weeds, ergonomics play a major role in success of every implement. The usage of weeder are	Assessmen t of Performan ce and Suitability of various Weeders in Paddy Cultivation	2	Multi Row Power Weeder Special Features:1.W eeder for SRI rice at row spacing of 22 to 26 cm.2.Light weight weeder (17 Kg) and suitable for all soils.3.Self propelled weeder – no need to push or pull.4.Can be operated and lifted by	Area coverage ,Weed control efficiency, Drudgery reduction, Time and lab our required, Weed control efficiency, Drudgery reduction, No. of productive tillers/hill, Yield, B:C ratio		OFT is	under progre	255	

Crop/ enterpr ise	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 refinemen t needed	Justificatio n for refinement
1	2	3 measured in term of	4	5	6 one person	7	8	9	10	11	12
		regonomics, implement use efficiency, weed control efficiency, tillering efficiency of rice crops and economics are worked out for both the weeders. The yield of rice crop was mainly determined by weeding and proper nutrient management practices. Now the district is facing acute labour shortage for agricultural work. Due to this, weeding operation was not carried out in time. The weeds are compete with main crops for nutrient, water, light and spacing and finally the weeds are occupied major area within a short span and reduce the yield of main crop in an area of 200 ha among 300 Kutchanoor farmers.			easily to change rows.5.Compl ete cutting of 3 to 4 cm with less than 1% plant damage Source: TNAU, Coimbatore						
Poultry Farmin g		Assessment of Oral Pellet Vaccination in Desi Chicken, No Vaccination or Management for Ranikhet disease in Desi Chicken in an area of 1000 birds among 50 Ellapatti farmers.	Assessmen t of oral pellet vaccinatio n in Desi Chicken	100 0 bird s	1.Oral Pellet ranikhet Vaccine on the 7 th to 14 th day. 2.RDVK- Subcutaneous 8 th and 16 th week. Source: TANUVAS, Chennai	1.One drop of blood in filter paper on 8 th week both in Non vaccinated (5% of the birds) and Vaccinated flock (10% of birds) 2.Mortality pattern age wise		OFT is	under progre	SS	
Dairy Farmin g		Assessment of regular mineral mixture, Irregular mineral supplementation in a minimum of 3 cows among 10 farmers.	Assessmen t of regular mineral mixture	30 cow s	Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Source: TANUVAS, Chennai	1.Milk yield during the lactation period 2.Onset of first estrum after calving 3. No. of Insemination required for conception.		OFT is	under progre	SS	
Results Banana	of OFTs c Irrigated	The productivity of	Assessmen	6	High density	Number of	No. of	The yield	The		
		Input and profitability of banana growers is decreasing and cost of cultivation is increasing every year.	t of Suitable Planting method in Banana for higher profitabilit y		planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Hi gher population, higher yield and higher profitability Source: NRCB, Trichy	tingers/bunch, Bunch weight, Yield/ha BCR	tingers/bunch: FP: 28.7, RP: 30.2, AP: 29.6. No. of bunches FP: 13.8, RP: 15.2, AP: 14.1, Weight of finger: FP: 325g, RP: 342g, AP: 331g, bunch Weight: FP: 48.7 kg, RP:49.1 kg, AP: 48.9 kg. Yield:FP:96.1 tn/ha,RP:105.3 tn/ha,AP:101.8 tn/ha,AP:101.8	of banana is found higher in recommend ed practice 105.3 t/ha which is 15.58% increase over convention al farmers Practice 96.1 t/ha and 10.89% increase over Alternate Practice 101.8 t/ha.	farmers expressed the yield in paired row system is found more than alternate and farmers practice., even though the cost of cultivatio n is found equal to Farmers Practice. Though		

Crop/ enterpr ise	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 refinemen t needed	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10 the yield in Alternate Practice is optimum the cost of cultivatio n is deduced it is reflected in more benefit than Recomme nded Practice.	11	12
Banana	Irrigated	The disposal of pseudo stem after the harvest of banana is a lab our and cost intensive. The demand for the natural fibre at national and international level is high. Nowadays the banana fibre is one of the alternatives for natural fibre for making high quality sarees and currency. The higher quality of the fibre generally getting by hand stripping involve drudgery and outcome is very less and a non profitable enterprises.	Approache s for drudgery reduction and quality improveme nt of banana fibre	5	Retting by means of biological organism (CAP enzyme @ 10 ml mixed with 50 ml of water and diluted with 5 litres and keeping for 12 hours) Re tting process increase the out come and more utilization of pseudo stem and better marketability. Source: Innovative Farmers	Fibre quality, drudgery %, fibre thickness& strength, outcome %, BCR	The % fibre available from banana pseudostem FP:122, RP:113, AP: 106, T4: 104, Fibre Outcome: Kg/hr FP:0.348, RP:0.53, AP 0.89, AP: 0.54, Fibre Thickness(mm): FP:0.113, RP:0.114, AP: 0.113, AP: 0.116 BCR: APII: 3.07, API: 3.57, RP: 3.07, FP: 3.45	Low drudgery found in treatment 4 followed by T3 with 104% and 106% respectively . High quality of fibre was available in retting with biological CAP enzyme which was found in T3 with 0.89 mean fiber thickness.	It was found that the fibre extraction was very easy with biological retting process which reduced the drudgery with high profit compare to hand stripping method		
Goat	-	Low weight and low productivity in Goat. Goat husbandry is an important source of livelihood for the rural poor, particularly for the women, land less and marginal farmers. Goat is ideally suited for the poorest of the poor, because of short gestation period, Low risk capital investment and low cost of maintenance. But, due to the indiscriminate breeding and absence of elite bucks of good breeds, there has been severe genetic erosion, resulting in low weight at birth, poor growth and susceptibility to various diseases.	Assessmen t of Goat Breeding	25	AI with Tellichery goat semen	Body weight gain, number of kids/birth, BCR	Body weight: FP: 1.18 Kg, RP: 2.29 Kg, AP: 1.74 Kg, No. of Kids/birth: FP: 1.8, RP: 1.6, AP: 2.1, BCR: FPI 4.81, RP: 4.83, AP: 5.36	In artificial insemination with Boer goat semen the body weight increased up to 2.29 kg followed by the A.I with Tellicherry goat semen increased upto 1.18 kg. Instead the Boer goat give birth to 1.6 kid and Tellicherry goat give birth to 2.1 kid and 1.8 in natural breeding.	The goat growers preferred goat breeding under A.I with Tellicherry goat semen than other two process		
Milch Cow	-	The quality of cow milk is low due to improper uptake of fodder and low conversion of feed into milk	Effect of EM in uptake efficiency, cost reduction, quality and milk production	10	Green fodder 10-15 kg/cow / day Dry fodder 5 kg / cow/ day Concentrate feed 1.5- 2 kg / cow / day Mineral mixture-25-30 gm / cow day EM bokashi 200 gm / cow	Milk yield, SNF %,Fat %,B:C Ratio	Milk yield: FP: 1215 1t/10 months, RP: 1535 1t/10 months, AP: 2055 1t/10 months, SNF%: FP: 7.8, RP: 7.9, AP: 8.1, Fat%: FP: 3.5, RP: 3.8, AP: 4.2, BCR: AP: 3.52, RP: 3.10, FP: 2.90	The milk yield in AP (2055 lt/cow/10 months) was found highest followed by RP (1535 lt/cow/10 months). The cows fed with uscientific	The cattle growers appreciate d the practice adopted in T3 for increasing the productivi ty of milk and at the same time the		

Crop/ enterpr ise	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 refinemen t needed	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10	11	12
					EM solution 40 ml /cow/ day			way of feeding received less milk yield with FP (1215 lt/cow/10 months). Similarly the SNF% 8.1, far % 4.2 was also noticed higher in AP followed by RP(SNF 7.9, fat 3.8) and FP (SNF 7.8, fat 3.5)	showed less interest due to difficulty of getting EM and its high cost		

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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
Technology option 1(Furmer's practice) Application of Copper oxychlorids 2) gmp rilier of valves rayved at minerval of 7 days-20.46Uha2.21.3002.18Technology option 2 (Recommended Practice) Spray of 1% Bordeaux mixtureTNAU22.48Uha2.62.1002.39Technology option 3 (Alternate practice) 1) Four Spray of Copper hydroxide 2 and it at 15:20 days interval to cover entire rainy periodNRCG25.48Uha3.22.1002.71Technology option 4 (Alternate practice) 2) Spray COpper Fungicides (Bordeaux Mixture 0.5%, Copper oxide 0.2% or COC 0.3 %).IHR28.64Uha3.85.3003.05Technology option 2 (Recommeded Practice) Aloption of resistant variety Sirganani - I., Selection of planting sets from unaffected vineTNAU7.95Uha1.98.9002.00Technology option 3 (Alternate practice) Cultivation of bod varieties, variety Sirganani - I., Selection of planting sets from unaffected vine tracheology option 3 (Alternate practice) Litrativation of bod variety Sirganani - I., Selection of planting sets from unaffected vine tracheology option 1 (Surfare Spray Start Hifting the vines and second and third dose at 40-45 days intervals. Applicy obds, shade drid ene leves or CLAIOrophis leves as drien Hifting the vines and second and burn thems A splication of Plantine.TNAU8.57Uha2.53,5502.40Muriate of potation II Sirtar 15 days start Hifting the vines and accord high times and vine (es § givine Imditive3990Kg/ha285771.67Imditive.Thode marks of the set of the potential of Planceane 6 & S givine-3990Kg/ha23490<	13		14	15	16	17
Technology option 2 (Recommended Practice) Spray of 1% Bordeaux mixtureTNAU22.48t/ha2.62.1002.39Technology option 3 (Alternate practice 1) Four Spray of Copper hydroxide 220% interval to 20% spray Copper Fungicides (Bordeaux Mixture 0.5%, Copper oxide 0.2% or COC 0.3 %)NRCG25.48t/ha3.22.1002.71Technology option 4 (Alternate practice 2) Spray Copper Fungicides (Bordeaux Mixture 0.5%, Copper oxide 0.2% or COC 0.3 %)IIHR28.64t/ha3.85.3003.05Technology option 4 (Chernater spratce) Cultivation of local varieties, water stagnition and improper use of agrochemicals-6.53t/ha1.17.2701.50Technology option 3 (Alternate practice) Cultivation of local varieties, water stagnition and improper use of agrochemicalsTNAU7.95t/ha1.98.9002.00Technology option 3 (Alternate practice) Integrated Method for the Management of Phytophthora Wilt: LApply 150 kg Nhayveet through Neem Cale (75 kg N) and Urea (75 kg N) and 100 kg P.0, through Super phosphate and 30 kg Muriate of potcolrophis leaves a 2 t/ha and cover it with wind (2 t in 2 split doses) 2.Drench Bordeaux mixture 1% in basins formed around the vine at monthly intervals starting from October - January, three times soil drench and six times spray from June-July 3.During winter sasen avoid frequent irrigation 4.Remove the affected vines way from the garden and burn them 5.Application of Predumoras furoscens @ 2.5 kg/ha before transplanting - Spraying Edifenplos Imdive.3090Kg/ha285771.67Technology option 1 (Rarmer's practice) Soil application of Predumoras furoscens @ 2.5 kg/ha before transplanting - Spraying Manacoza'd SW P	Technology option 1(Farmer's practice) Application of Copper oxychloride 3 gm per liter of water spray at an interval of 7 days	-	20.46	t/ha	2,21,300	2.18
Technology option 3 (Alternate practice 1) Four Spray of Copper Indexide 2014 at 15-20 days interval to cover entire rainy period Technology option 4 (Alternate practice 2) Spray Copper Fungicides IIHRNRCG25.48Uha3,22,1002.71Technology option 4 (Alternate practice 2) Spray for COC 0.3 %) 	Technology option 2 (Recommended Practice) Spray of 1% Bordeaux mixture	TNAU	22.48	t/ha	2,62,100	2.39
Technology option 4 (Alternate practice 2) Spray Copper FungicidesIIHR28.64t/ha3.85,3003.05Technology option 1 (Parmer's practice) Cultivation of local varieties, water stagnation and improper use of agrochemicals-6.53t/ha1,17,2701.50Technology option 2 (Recommended Practice) Adoption of resistant variety Struganani -1, Selection of planting sets from unaffected vineTNAU7.95t/ha1,98,9002.00Technology option 3 (Alternate practice) Integrated Method for the Management of Phytophthora Wilt: 1. Apply 150 kg Nahayear through Neem Cake (75 Kg N) and Urea (75 Kg N) and 100 kg P.O., through Super phosphate and 30 kg Muriate of potabin is 3plit does first at 15 days after lifting from October - January, three times soil drench and six times spray from Jane-July 3 During winter season avoid frequent irrigation 4. Remove the affected vine at monthly intervals 6.Application of Plantens way from the garden ad burnet mesh 5.Application of Plantens way from the garden ad burnet mesh 5.Application of Plandens further season avoid frequent irrigaptication of Planterscens @ 2.5 kg ha before transplanting + Seding restruction of Planterscens @ 2.5 kg ha before transplanting + Seding restruction of Planterscens @ 2.5 kg ha before transplanting + Seding restruction of Planterscens @ 1.5 (Sintagrift ere at 30 days after transplanti	Technology option 3 (Alternate practice 1) Four Spray of Copper hydroxide 2gm/lt at 15-20 days interval to cover entire rainy period	NRCG	25.48	t/ha	3,22,100	2.71
Technology option 1(Farmer's practice) Cultivation of local varieties, waret stagnation and improper use of agrochemicals-6.53Uha1,17,2701.50Technology option 2 (Recommended Practice) Adoption of resistant variety Siruganani 1, Selection of planing sets from unaffected vineTNAU7.95Uha1,98,9002.00Technology option 3 (Alternate practice) Integrated Method for the Management of Phytophthora Wilt: 	Technology option 4 (Alternate practice 2) Spray Copper Fungicides (Bordeaux Mixture 0.5%, Copper oxide 0.2% or COC 0.3%)	IIHR	28.64	t/ha	3,85,300	3.05
Technology option 2 (Recommended Practice) Adoption of resistant variety Sirguagmain 1. Selection of planting sets from undfreed vine Hanguagment of Phytophthora Wilt: LApply 150 kg Nha/year through Neem Cake (75 Kg N) and Urea (75 Kg N) and 10kg P.Q., through Super phosphate and 30 kg Muriate of potash in 3 split doses first at 15 days after lifting the vines and accord in the mole neaves or Calotrophis Leaves at 2 uba and cover it with mud (2 t in 2 split doses) 2.Drench Bordeaux mixture 1% in basins formed around the vine at monthly intervals starting from October - January, three times soli drench and six times spray from June-July 3.During winter season avoid frequent irrigation 4.Remove the affected vines way from the garden and burn them 5.Application of Technology option 1 (Farmer's practice) Spraying Edifenphos Imditive.TNAU7.95tha1.98,9002.00Tochology option 2 (Recommended Practice) Soil application of <i>P.furoscens</i> @ 2.5 kg/hectare + Folia rapplication of <i>P.furoscens</i> @ 1.5 kg/ atter at 30 days after transplanting + Seedling treatment with <i>P. fluroscens</i> @ 2.5 kg/hectare + Folia rapplication of <i>P.furoscens</i> @ 1.5 kg/ atter at 30 days after transplanting + Serdling treatment with <i>P. fluroscens</i> @ 1.5 kg/ atter at 30 days after transplanting of <i>P. fluroscens</i> @ 1.5 kg/ atter at 30 days after transplanting treatment with <i>P. fluroscens</i> @ 2.5 kg/ hectare & Application of <i>P. fluroscens</i> @ 1.5 kg/ atter at 30 days after transplanting treatment with <i>P. fluroscens</i> @ 2.5 kg/ hectare & Application of <i>P. fluroscens</i> @ 2.5 kg/ hectare & Sing Sing Sing Sing Sing Sing Sing Sing	Technology option 1(Farmer's practice) Cultivation of local varieties, water stagnation and improper use of agrochemicals	-	6.53	t/ha	1,17,270	1.50
Technology option 3 (Alternate practice) Integrated Method for the Management of Phytophihora Wilt: 1. Apply 150 kg Nhavyear through Neem Cake (75 Kg N) and Urea (75 Kg N) and 100 kg P ₂ O ₃ through Neem Cake (75 Kg N) and Urea (75 Kg N) and 100 kg P ₂ O ₃ through Neem Cake (75 Kg N) and Urea (75 Kg N) and 100 kg P ₂ O ₃ through Super phosphate and 30 kg Muriate of potash in 3 split doses first at 15 days after lifting the vines and second and third dose at 40-45 days intervals. Apply on beds, shade dried neem leaves or Calotrophis leaves at 2 Uha and cover it with mud (2 t in 2 split doses) 2.Drench Bordeaux mixture 1% in basins formed around the vine at monthly intervals starting from October – January, three times soil drench and six times spray from June-July 3.During winter season avoid frequent irrigation 4.Remove the affected vines way from the garden and burn them 3.Application of Alliette (Chlorathalonil) 3 g/l 4 times monthly intervals 6.Application of Trichoderma Viride @ 2, sylvine Technology option 1 (Farmer's practice) Soil application of <i>P. furoscens</i> @ 2.5 kg/ha before transplanting + Spraying Mancozeb 45 WP @ 2gm /litre with the help of hand operated knapsack sprayer. Technology option 3 (Alternate practice) Seed treatment with <i>P. fluroscens</i> @ 1.5 kg/ha and 45 days after planting + Spraying Mancozeb 45 WP @ 2gm /litre with the help of hand operated knapsack sprayer. Technology option 1 (Remare practice) Local Variety <i>Technology option 1 P. fluroscens</i> @ 1. kg/ area at 30 days after transplanting @ Foliar application of <i>P. fluroscens</i> @ 1. kg/mace at 30 days after transplanting e foliar application of <i>P. fluroscens</i> @ 1. kg/ area at 30 days after transplanting @ Foliar application of <i>P. fluroscens</i> @ 1. kg/ area at 30 days after transplanting @ Foliar application of <i>P. fluroscens</i> @ 1. kg/ area at 30 days after transplanting @ Foliar application of <i>P. fluroscens</i> @ 1. kg/ area at 30 fluroscens @ 10g/ kg os des + Seedling treatment with <i>P. fluroscens</i> @ 1	Technology option 2 (Recommended Practice) Adoption of resistant variety Sirugamani -1, Selection of planting sets from unaffected vine	TNAU	7.95	t/ha	1,98,900	2.00
Technology option 1 (Farmer's practice) Spraying Editenphos Imi/litre.3990Kg/ha285771.67Imi/litre.Technology option 2 (Recommended Practice) Soil application of <i>P. seudomonas fluroscens</i> @ 2.5 kg/ hectare + Foliar application of <i>P. fluroscens</i> @ 1 kg/ha and 45 days after planting + Spraying Mancozeb 45 WP @ 2gm /litre with the help of hand operated knapsack sprayer.TNAU6092Kg/ha234901.55Technology option 3 (Alternate practice) Seed treatment with <i>P. fluroscens</i> @ 10g/ kgs of seeds + Seedling treatment with <i>P. fluroscens</i> @ 10g/ kgs of seeds + Seedling treatment with <i>P. fluroscens</i> @ 2.5 kg/ hectare @ Application of <i>P. fluroscens</i> @ 1 kg/ acre at 30 days after transplanting @ Foliar application of <i>P. fluroscens</i> @ 2.5 kg/ hectare at 45 DAT + Spraying Tricyclazole 75 WP @ 1gm /lit with the help of hand operated knapsack sprayer.CRRI6561Kg/ha115581.27Technology option 1(Farmer's practice) Local Variety-8.42t/ha203581.8Technology option 2(Recommended Practice) Variety : Arka komal Spacing: 45X30 cm, Fertilizers : 135:135:135 Kg per Ha, FYM : 25 ton per Ha, Chemicals: Kelthane 250 mJ per Ha. (Red spider mite) : Planto vax 250 mJ per Ha. (Rust) Carbendezim 250 gram (Leaf spot)IIHR13.8t/ha483402.85	Technology option 3 (Alternate practice) Integrated Method for the Management of Phytophthora Wilt: 1.Apply 150 kg N/ha/year through Neem Cake (75 Kg N) and Urea (75 Kg N) and 100 kg P_2O_5 through Super phosphate and 30 kg Muriate of potash in 3 split doses first at 15 days after lifting the vines and second and third dose at 40-45 days intervals. Apply on beds, shade dried neem leaves or Calotrophis leaves at 2 t/ha and cover it with mud (2 t in 2 split doses) 2.Drench Bordeaux mixture 1% in basins formed around the vine at monthly intervals starting from October – January, three times soil drench and six times spray from June-July 3.During winter season avoid frequent irrigation 4.Remove the affected vines way from the garden and burn them 5.Application of Alliette (Chlorathalonil) 3 g/lt 4 times monthly intervals 6.Application of Trichoderma Viride @ 5 g/vine	TNAU	8.57	t/ha	2,53,550	2.40
Initial Technology option 2 (Recommended Practice) Soil application of Pseudomonas fluroscens @ 2.5 kg/ha before transplanting + Seedling treatment with P. fluroscens @ 2.5 kg/h bectare + Foliar application of P. fluroscens @ 1 kg/ha and 45 days after planting + Spraying Mancozeb 45 WP @ 2gm /litre with the help of hand operated knapsack sprayer.TNAU6092Kg/ha234901.55Technology option 3 (Alternate practice) Seed treatment with P. fluroscens @ 10g/ kgs of seeds + Seedling treatment with P. fluroscens @ 10g/ kgs of seeds + Seedling treatment with P. fluroscens @ 2.5 kg/ hectare @ Application of P. fluroscens @ 2.5 kg/hactare at 45 DAT + Spraying Tricyclazole 75 WP @ 1gm /lit with the help of hand operated knapsack sprayer.CRRI6561Kg/ha115581.27Technology option 1(Farmer's practice) Local Variety-8.42t/ha203581.8Technology option 2(Recommended Practice) Variety : Arka komal Spacing: 45X30 cm, Fertilizers : 135:135:135 Kg per Ha, FYM : 25 ton per Ha, Chemicals: Kelthane 250 mJ per Ha. (Red spider mite) : Planto vax 250 mJ per Ha. (Rust) Carbendezim 250 gram (Leaf spot)IIHR13.8t/ha483402.85	Technology option 1(Farmer's practice) Spraying Edifenphos	-	3990	Kg/ha	28577	1.67
Technology option 3 (Alternate practice) Seed treatment with P fluroscens @ 10g/kgs of seeds + Seedling treatment with P. fluroscens @ 2.5 kg/ hectare @ Application of P. fluroscens @ 1 kg/ acre at 30 days after transplanting @ Foliar application of P. fluroscens @ 2.5 kg/ hectare at 45 DAT + Spraying Tricyclazole 75 WP @ 1gm /lit with the help of hand operated knapsack sprayer.CRRI6561Kg/ha115581.27Technology option 1 (Farmer's practice) Local Variety-8.42t/ha203581.8Technology option 2 (Recommended Practice) Variety : Arka komal Spacing: 45X30 cm, Fertilizers : 135:135:135 Kg per Ha, FYM : 25 ton per Ha, Chemicals: Kelthane 250 ml per Ha. (Red spider mite) : Planto vax 250 ml per Ha. (Rust) Carbendezim 250 gram (Leaf spot)IIHR13.8t/ha483402.85	Technology option 2 (Recommended Practice) Soil application of <i>Pseudomonas fluroscens</i> @ 2.5 kg/ha before transplanting + Seedling treatment with <i>P. fluroscens</i> @ 2.5 kg/ hectare + Foliar application of <i>P. fluroscens</i> @ 1 kg/ha and 45 days after planting + Spraying Mancozeb 45 WP @ 2gm /litre with the help of hand operated knapsack sprayer.	TNAU	6092	Kg/ha	23490	1.55
Technology option 1(Farmer's practice) Local Variety-8.42t/ha203581.8Technology option 2(Recommended Practice) Variety : Arka komal Spacing: 45X30 cm, Fertilizers : 135:135:135 Kg per Ha, FYM : 25 ton per Ha, Chemicals: Kelthane 250 ml per Ha. (Red spider mite) : Planto vax 250 ml per Ha. (Rust) Carbendezim 250 gram (Leaf spot)IIHR8.5t/ha256002.04Technology option 3 (Alternate practice) Details of technology: ArkaIIHR13.8t/ha483402.85	Technology option 3 (Alternate practice) Seed treatment with <i>P</i> fluroscens @ 10g/ kgs of seeds + Seedling treatment with <i>P</i> . fluroscens @ 2.5 kg/ hectare @ Application of <i>P</i> . fluroscens @ 1 kg/ acre at 30 days after transplanting @ Foliar application of <i>P</i> . fluroscens @ 2.5 kg/ hectare at 45 DAT + Spraying Tricyclazole 75 WP @ 1gm /lit with the help of hand operated knapsack sprayer.	CRRI	6561	Kg/ha	11558	1.27
Technology option 2(Recommended Practice) Variety : Arka komal Spacing: 45X30 cm, Fertilizers : 135:135:135 Kg per Ha, FYM : 25 ton per Ha, Chemicals: Kelthane 250 ml per Ha. (Red spider mite) : Planto vax 250 ml per Ha. (Rust) Carbendezim 250 gram (Leaf spot)IIHR8.5t/ha256002.04Technology option 3 (Alternate practice) Details of technology: ArkaIIHR13.8t/ha483402.85	Technology option 1(Farmer's practice) Local Variety	-	8.42	t/ha	20358	1.8
Technology option 3 (Alternate practice) Details of technology: Arka IIHR 13.8 t/ha 48340 2.85	Technology option 2(Recommended Practice) Variety : Arka komal Spacing: 45X30 cm, Fertilizers : 135:135 Kg per Ha, FYM : 25 ton per Ha, Chemicals: Kelthane 250 ml per Ha (Red spider mite) : Planto vax 250 ml per Ha. (Rust) Carbendezim 250 gram (Leaf spot)	IIHR	8.5	t/ha	25600	2.04
	Technology option 3 (Alternate practice) Details of technology: Arka	IIHR	13.8	t/ha	48340	2.85

Anony 125,125,125 NDK and the struggt with and an in					
4 gram per kg seed, FYM: 25 tons per Ha, (basal application)					
Technology option 1(Farmer's practice) Variety: SVPR 2, Fertilizer:		1225.2	Ka/ha	15160	1.60
100 Kg DAP and 50 Kg MoP/ha	-	1555.5	Kg/na	15160	1.00
Technology option 2 (Recommended Practice) Variety: SVPR 2,		1720	17 . 4	12660	1.00
Fertilizer: 80:40:40 Kg NPK/na, Basai application 25 kg/na of MgSO ₄ , Foliar application: 5% MgSO ₄	INAU	1/38	Kg/na	13000	1.82
Technology option 3 (Alternate practice) Variety: SVPR 2 Fertilizer:					
80:40:40 Kg NPK/ha, Basal application 25 kg/ha of MgSO ₄ Foliar	Farmers Innovation	1804	Kg/ha	54120	1.89
application: 3% MgSO ₄			0		
Technology option 1(Farmer's practice) Conventional method of	_	0.825	t/ha	11150	2.07
Redgram cultivation		0.825	Ulla	11150	2.07
Technology option 2 (Recommended Practice) Seeds dibbling by					
hand recommended by INAU a. Recommended practice for adoption: Pacommonded fortilizer: 12 5:25:12 5 kgs of NDK / ha	TNAL	1.075	t/ba	13142	1 1 2
Foliar spray of DAP 2% and NAA 40 ppm at flowering stage and 15	INAU	1.075	t/11a	15142	1.12
days after first spray.					
Technology option 3 (Alternate practice) Seedlings raised in Polythene	TIAC	1.12	t/ba	16100	267
bags and transplanted in Main field.	UAS	1.15	t/11a	10100	2.07
Technology option 1(Farmer's practice) Planting at the spacing of					
1.5x1.5m (single suckers=4400plants/ha)	-				
Even though planting at closer spacing, the number of bunches/ha is					
Technology option 2 (Recommended Practice) High density planting					
at the spacing of $1.2x1.2m$ pair row method of planting with the			OFT is Under Pr	ogress	
spacing of 2 m with single suckers(5250 suckers/ha). Higher	TNAU			8	
population and higher yield					
Technology option 3 (Alternate practice) High density planting with					
the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Higher	NRCB				
population, higher yield and higher profitability					
row cono weeder	TNAU				
Technology option 2 (Recommended Practice) 4 times weeding with					
rotary weeder.	TNAU		OFT is Under Pr	ogress	
Technology option 3 (Alternate practice 1) Multi Row Power Weeder.	TNAU			0	
Technology option 4 (Alternate practice 2) Power Weeder (MDU,	KVK Madurai				
Madurai).	it vit, madula				
Technology option 1(Farmer's practice) No Vaccination or					
Dispensaries	-				
Technology option 2 (Recommended Practice) 1.Lasota vaccine – Eve					
drops -7^{th} and 14^{th} day, 2.RDVK-Subcutaneous 8^{th} and 16^{th} week	TANUVAS		OFT is Under Pr	ogress	
Technology option 3 (Alternate practice) 1.Oral Pellet ranikhet					
Vaccine on the 7 th to 14 th day, 2.RDVK-Subcutaneous 8 th and 16 th	TANUVAS				
week					
Technology option 1(Farmer's practice) No / Irregular Mineral	-				
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation	-				
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving	- TANUVAS		OFT is Under Pr	ogress	
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral	- TANUVAS		OFT is Under Pro	ogress	
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day	- TANUVAS TANUVAS		OFT is Under Pro	ogress	
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving	- TANUVAS TANUVAS		OFT is Under Pr	ogress	
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10	- TANUVAS TANUVAS		OFT is Under Pr	ogress	
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of	- TANUVAS TANUVAS		OFT is Under Pr	ogress	
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at alcose service the surghers of the related for the jeak or and insert of for inner	- TANUVAS TANUVAS	96.1	OFT is Under Protection of the second	ogress 3,67,330	2.1
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also law.	- TANUVAS TANUVAS -	96.1	OFT is Under Pro	3,67,330	2.1
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low	- TANUVAS TANUVAS -	96.1	OFT is Under Pro	3,67,330	2.1
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the	- TANUVAS TANUVAS -	96.1	OFT is Under Pro	3,67,330	2.1
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 2 m with single suckers(5250 suckers/ha). Higher	- TANUVAS TANUVAS - TNAU	96.1	OFT is Under Pro t/ha t/ha	3,67,330 3,82,086	2.1
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 2 m with single suckers(5250 suckers/ha). Higher population and higher yield	- TANUVAS TANUVAS - TNAU	96.1	OFT is Under Protection of the transformed set of transformed set of the transformed set of	3,67,330 3,82,086	2.1
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1 (Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 2 m with single suckers(5250 suckers/ha). Higher population and higher yield Technology option 3 (Alternate practice) High density planting with	- TANUVAS TANUVAS - TNAU	96.1	OFT is Under Pr t/ha t/ha	3,67,330 3,82,086	2.1
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 2 m with single suckers(5250 suckers/ha). Higher population and higher yield Technology option 3 (Alternate practice) High density planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Higher	- TANUVAS TANUVAS - TNAU NRCB, Trichy	96.1 105.3 101.8	OFT is Under Pr t/ha t/ha	3,67,330 3,82,086 4,32,500	2.1 2.5 2.7
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1 (Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 2 m with single suckers(5250 suckers/ha). Higher population and higher yield Technology option 3 (Alternate practice) High density planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Higher population, higher yield and higher profitability	- TANUVAS TANUVAS - TNAU NRCB, Trichy	96.1 105.3 101.8	OFT is Under Pr t/ha t/ha t/ha	3,67,330 3,82,086 4,32,500	2.1 2.5 2.7
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1 (Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 2 m with single suckers(5250 suckers/ha). Higher population and higher yield Technology option 3 (Alternate practice) High density planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Higher population, higher yield and higher profitability Technology Option 1(Farmer's practice): Hand stripping High quality of fibre and additional revenue and enterprise for form women	- TANUVAS TANUVAS - TNAU NRCB, Trichy CTRI, Rajmundi	96.1 105.3 101.8 0.348	OFT is Under Protonal to the total t	3,67,330 3,82,086 4,32,500 82,000	2.1 2.5 2.7 2.02
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 2 m with single suckers(5250 suckers/ha). Higher population and higher yield Technology option 3 (Alternate practice) High density planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Higher population, higher yield and higher profitability Technology Option 1(Farmer's practice): Hand stripping High quality of fibre and additional revenue and enterprises for farm women Technology Option 2 (Recommended Practice): Retting by means of	- TANUVAS TANUVAS - TANUVAS - TNAU NRCB, Trichy CTRI, Rajmundi	96.1 105.3 101.8 0.348	OFT is Under Pro t/ha t/ha t/ha Kg/hr	3,67,330 3,82,086 4,32,500 82,000	2.1 2.5 2.7 2.02
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 2 m with single suckers(5250 suckers/ha). Higher population and higher yield Technology option 3 (Alternate practice) High density planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Higher population, higher yield and higher profitability Technology Option 1(Farmer's practice): Hand stripping High quality of fibre and additional revenue and enterprises for farm women Technology Option 2(Recommended Practice): Retting by means of chemical NaOH @ 10% at 60 °C water for two days.	- TANUVAS TANUVAS TANUVAS	96.1 105.3 101.8 0.348 0.53	OFT is Under Pro t/ha t/ha t/ha Kg/hr Kg/hr	3,67,330 3,82,086 4,32,500 82,000 1,13,000	2.1 2.5 2.7 2.02 2.41
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.8x 3.6 (three suckers per pit=4630 suckers/ha). Higher population and higher yield Technology Option 3 (Alternate practice) High density planting with the spacing of 1.8x 3.6 (three suckers per pit=4630 suckers/ha).Higher population, higher yield and higher profitability Technology Option 1(Farmer's practice): Hand stripping High quality of fibre and additional revenue and enterprises for farm women Technology Option 2(Recommended Practice): Retting by means of chemical NaOH @ 10% at 60 °C water for two days.	- TANUVAS TANUVAS TANUVAS	96.1 105.3 101.8 0.348 0.53	OFT is Under Pro t/ha t/ha t/ha Kg/hr Kg/hr	3,67,330 3,82,086 4,32,500 82,000 1,13,000	2.1 2.5 2.7 2.02 2.41
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha). Higher population and higher yield Technology Option 3 (Alternate practice) High density planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Higher population, higher yield and higher profitability Technology Option 1(Farmer's practice): Hand stripping High quality of fibre and additional revenue and enterprises for farm women Technology Option 2(Recommended Practice): Retting by means of chemical NaOH @10% at 60 °C water for two days. Technology Option 3 (Alternate practice)Retting by means of biological organism (CAP enzyme @ 10 ml mixed with 50 ml of water	- TANUVAS TANUVAS TANUVAS TANUVAS TANUVAS CTRI, Rajmundi CTRI, Rajmundi Farmers Innovation	96.1 105.3 101.8 0.348 0.53 0.89	OFT is Under Pro t/ha t/ha t/ha Kg/hr Kg/hr Kg/hr	3,67,330 3,82,086 4,32,500 82,000 1,13,000 1,42,000	2.1 2.5 2.7 2.02 2.41 2.77
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.8x 3.6 (three suckers per pit=4630 suckers/ha). Higher population and higher yield Technology Option 3 (Alternate practice) High density planting with the spacing of 1.8x 3.6 (three suckers per pit=4630 suckers/ha).Higher population, higher yield and higher profitability Technology Option 1(Farmer's practice): Hand stripping High quality of fibre and additional revenue and enterprises for farm women Technology Option 3 (Alternate practice): Retting by means of chemical NaOH @ 10% at 60 °C water for two days. Technology Option 3 (Alternate practice)Retting by means of biological organism (CAP enzyme @ 10 ml mixed with 50 ml of water and diluted with 5 litres and keeping for 12 hours)	TANUVAS TANUVAS TANUVAS TANUVAS TANUVAS TNAU CTRI, Rajmundi CTRI, Rajmundi Farmers Innovation	96.1 105.3 101.8 0.348 0.53 0.89	OFT is Under Pro t/ha t/ha t/ha t/ha Kg/hr Kg/hr Kg/hr	3,67,330 3,82,086 4,32,500 82,000 1,13,000 1,42,000	2.1 2.5 2.7 2.02 2.41 2.77
Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha). Higher population and higher yield Technology Option 3 (Alternate practice) High density planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Higher population, higher yield and higher profitability Technology Option 1(Farmer's practice): Hand stripping High quality of fibre and additional revenue and enterprises for farm women Technology Option 3 (Alternate practice)Retting by means of chemical NaOH @10% at 60 °C water for two days. Technology Option 3 (Alternate practice)Retting by means of biological organism (CAP enzyme @ 10 ml mixed with 50 ml of water and diluted with 5 litres and keeping for 12 hours)	TANUVAS TANUVAS TANUVAS TANUVAS TNAU NRCB, Trichy CTRI, Rajmundi CTRI, Rajmundi	96.1 105.3 101.8 0.348 0.53 0.89	OFT is Under Pro	3,67,330 3,82,086 4,32,500 82,000 1,13,000 1,42,000	2.1 2.5 2.7 2.02 2.41 2.77
 Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha). Higher population and higher yield Technology Option 1(Farmer's practice): High density planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Higher population, higher yield and higher profitability Technology Option 2(Recommended Practice): Hand stripping High quality of fibre and additional revenue and enterprises for farm women Technology Option 3 (Alternate practice): Retting by means of biological organism (CAP enzyme @ 10 ml mixed with 50 ml of water and diluted with 5 litres and keeping for 12 hours) Technology Option 4: Retting by means of biological organism (Xylanase0.1%, P^H of 9.65 at 70⁰C for 45 min with constant stiering 	TANUVAS TANUVAS TANUVAS - TNAU NRCB, Trichy CTRI, Rajmundi CTRI, Rajmundi Farmers Innovation	96.1 105.3 101.8 0.348 0.53 0.89 0.54	OFT is Under Pro	3,67,330 3,82,086 4,32,500 82,000 1,13,000 1,42,000 1,15,000	2.1 2.5 2.7 2.02 2.41 2.77 2.43
 Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha). Higher population and higher yield Technology Option 1(Farmer's practice): High density planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Higher population, higher yield and higher profitability Technology Option 1(Farmer's practice): Hand stripping High quality of fibre and additional revenue and enterprises for farm women Technology Option 3 (Alternate practice): Retting by means of biological organism (CAP enzyme @ 10 ml mixed with 50 ml of water and diluted with 5 litres and keeping for 12 hours) Technology Option 4: Retting by means of biological organism (Xylanase0.1%, P^H of 9.65 at 70⁰C for 45 min with constant stirring. 	TANUVAS TANUVAS TANUVAS - TNAU NRCB, Trichy CTRI, Rajmundi CTRI, Rajmundi Farmers Innovation	96.1 105.3 101.8 0.348 0.53 0.89 0.54	OFT is Under Pro t/ha t/ha t/ha t/ha Kg/hr Kg/hr Kg/hr Kg/hr	3,67,330 3,82,086 4,32,500 82,000 1,13,000 1,42,000 1,15,000 2140	2.1 2.5 2.7 2.02 2.41 2.77 2.43 2.14
 Technology option 1(Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Results of OFTs completed for the year 2009-10 Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.2x1.2m pair row method of planting with the spacing of 1.8x 3.6 (three suckers per pit=4630 suckers/ha). Higher population and higher yield Technology Option 3 (Alternate practice) High density planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha).Higher population, higher yield and higher profitability Technology Option 1(Farmer's practice): Hand stripping High quality of fibre and additional revenue and enterprises for farm women Technology Option 3 (Alternate practice) Retting by means of biological organism (CAP enzyme @ 10 ml mixed with 50 ml of water and diluted with 5 litres and keeping for 12 hours) Technology Option 4: Retting by means of biological organism (Xylanase0.1%, P^H of 9.65 at 70°C for 45 min with constant stirring. Technology Option 1(Farmer's practice): Natural breeding Technology Option 1(Farmer's practice): Natural breeding Technology Option 1(Farmer's practice): Natural breeding 	TANUVAS TANUVAS TANUVAS TANUVAS TANUVAS TNAU TNAU NRCB, Trichy CTRI, Rajmundi CTRI, Rajmundi Farmers Innovation Farmers Innovation TANUVAS	96.1 105.3 101.8 0.348 0.53 0.89 0.54 1.8	OFT is Under Pro	3,67,330 3,82,086 4,32,500 82,000 1,13,000 1,42,000 1,15,000 2140 2720	2.1 2.5 2.7 2.02 2.41 2.77 2.43 2.14 2.70

Technology Option 3 (Alternate practice) AI with Tellichery goat semen	TANUVAS	2.1	Kids/birth	2920	2.92
Technology Option 1(Farmer's practice): Not following the scientific feeding	-	1215	Lt/cow/10 months	19,925	2.90
Technology Option 2(Recommended Practice): Green fodder 10-15 kg/cow / day Dry fodder 5 kg / cow/ day Concentrate feed 1.5- 2 kg / cow / day Mineral mixture-25-30 gm / cow day	TANUVAS	1535	Lt/cow/10 months	26,030	3.10
Technology Option 3 (Alternate practice) Green fodder 10-15 kg/cow / day Dry fodder 5 kg / cow/ day Concentrate feed 1.5- 2 kg / cow / day Mineral mixture-25-30 gm / cow day EM bokasi 200gm/cow/day EM Solution 40 ml/cow/day	TANUVAS	2055	Lt/cow/10 months	36,805	3.52

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 Manag	ement of Downy Mildev	v in Grapes					
2	Problem Definition	1. Heavy incidence lead fungicides. 3. Downy m	ling to severe reduction ir nildew incidence in grapes	n yield.2.Indiscriminate use of o s in an area of 50 ha among 100	different combination of O Puthupatti farmers.				
3	Details of technologies selected for assessment	Technology option 1(Farmer's practice) Application of Copper oxychloride 3 gm per liter of water spray at an interval of 7 days Technology option 2 (Recommended Practice) Spray of 1% Bordeaux mixture Technology option 3 (Alternate practice 1) Four Spray of Copper hydroxide 2gm/lt at 15-20 days interval to cover entire rainy period Technology option 4 (Alternate practice 2) Spray Copper Fungicides (Bordeaux Mixture 0.5%, Copper oxide 0.2% or COC 0.3 %)							
4	Source of technology	Technology Option 1: Technology Option 2: Technology Option 3: Technology Option 4:	Technology Option 1: Farmers Practice Technology Option 2: TNAU, Coimbatore Technology Option 3: NRCG, Pune Technology Option 4: IIHR, Bangalore						
5	Production system and thematic area	Irrigated Garden land Downy Mildew in Grapes							
6	Performance of the Technology with performance indicators	Alternate practice II	Alternate practice I	Recommended Practice	Farmers Practice				
	Production per unit area(Ton/Ha)	28.46	25.48	22.48	20.46				
	Gross Cost (Rs/Ha)	145200 145750 160500 175350							
	Gross Return (Rs/Ha)	530500	467850	422600	397050				
	Net Return (Rs/Ha)	385300	322100	262100	221700				
	BC Ratio	3.05	2.71	2.37	2.18				
	Percent Incidence	18.48	18.24	16.66	16.32				
	Control Efficiency %	62.2	48.5	33.3	14.3				
	% Damaged Fruits	1.3	4.58	9.64	11.11				
	% yield increase	28.64	25.48	22.48	20.46				
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Percent incidence of infestation at different levels, control efficiency, Damaged fruits, Percent yield increase, quality of fruits, yield, BCR							
8	Final recommendation for micro level situation	The yield in Alternate Practice is (28.64 t/ha) than other practices viz., Recommended Practice 22.48 t/ha. Farmers Practice 20.46 t/ha, this is 3.8% yield increase over Recommended Practice.							
9	Constraints identified and feedback for research	NIL							
10	Process of farmers participation and their reaction	Farmers have adopted I	IHR, Bangalore technolo	gies to control downy mildew of	disease in Grapes.				

1	Title of Technology Assessed	Assessment of Management of Phytopthora Wilt in Betel vine
2	Problem Definition	1. Heavy incidence leading to severe reduction in yield.2.Indiscriminate use of different combination of
		fungicides. 3. Downy mildew incidence in grapes in an area of 50 ha among 100 Puthupatti farmers.
3	Details of technologies selected for	Technology option 1(Farmer's practice) Cultivation of local varieties, water stagnation and improper use of
	assessment	agrochemicals
		Technology option 2 (Recommended Practice) Adoption of resistant variety Sirugamani -1, Selection of
		planting sets from unaffected vine
		Technology option 3 (Alternate practice) Integrated Method for the Management of Phytophthora Wilt:
		1.Apply 150 kg N/ha/year through Neem Cake (75 Kg N) and Urea (75 Kg N) and 100 kg P ₂ O ₅ through
		Super phosphate and 30 kg Muriate of potash in 3 split doses first at 15 days after lifting the vines and second
		and third dose at 40-45 days intervals. Apply on beds, shade dried neem leaves or Calotrophis leaves at 2 t/ha
		and cover it with mud (2 t in 2 split doses) 2.Drench Bordeaux mixture 1% in basins formed around the vine
		at monthly intervals starting from October - January, three times soil drench and six times spray from June-
		July 3.During winter season avoid frequent irrigation 4.Remove the affected vines way from the garden and
		burn them 5.Application of Alliette (Chlorathalonil) 3 g/lt 4 times monthly intervals 6.Application of
		Trichoderma Viride @ 5 g/vine
4	Source of technology	Technology Option 1: Farmers Practice
		Technology Option 2: TNAU, Coimbatore
		Technology Option 3: TNAU, Coimbatore

5	Production system and thematic area	Integrated and Phytophthora Wilt management	ent in Betelvine					
6	Performance of the Technology with performance indicators	Alternate practice	Recommended Practice	Farmers Practice				
	Production per unit area(Ton/Ha)	8.57	7.95	6.55				
	Gross Cost (Rs/Ha)	209630	198150	175450				
	Gross Return (Rs/Ha)	429000	397050	326900				
	Net Return (Rs/Ha)	253550	198400	117270				
	BC Ratio	2.4	2.0	1.5				
	Percent Incidence	54.3	58.1	56.4				
	Control Efficiency %	98.41	93.06	92.5				
	Plant height (cm)	235.71	226.09	215.73				
	No. of bunches/vine	8	8	7				
	No. of leaves/plant	175-195	172-193	170-191				
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Percent incidence at different levels, control leaves per plant, yield, BCR	ol efficiency, plant height, No. o	f branches per vine, No. of				
8	Final recommendation for micro level situation	The damage incidence initially was 19.62%, 16.5% and 8.5% during 2 nd , 3 rd and 4 th month defore treatment which was reduced to 1.3,1.8,0.86% respectively after treatment.						
9	Constraints identified and feedback for research	NIL						
10	Process of farmers participation and their reaction	Farmers have adopted Phyptophthora wilt n maximum benefit.	nanagement practices in Betelvin	e crop for getting				

1	Title of Technology Assessed	Assessment of Management of Brown Lea	af Spot in Paddy						
2	Problem Definition	This disease has a worldwide distribution, and it has been reported in all rice growing tracts of Tamil Nadu during last year. The disease causes blight of seedlings grown from heavily infected seeds. These symptoms will appear during panicle initiation stage and also affected the grains. Farmers do not adopt preventive measures at the time of initial stage of the crop. Hence the assessment of technologies achieves expected results in control of disease which in turn results in good quality of seeds and higher yield. High incidence of brown leaf spot in paddy in an area of 150 ha among 200 Markayankottai farmers.							
3	Details of technologies selected for assessment	Technology option 1(Farmer's practice) Spraying Edifenphos 1ml/litre. Technology option 2 (Recommended Practice) Soil application of <i>Pseudomonas fluroscens</i> @ 2.5 kg/ha before transplanting + Seedling treatment with <i>P. fluroscens</i> @ 2.5 kg/ hectare + Foliar application of <i>P. fluroscens</i> @ 1 kg/ha and 45 days after planting + Spraying Mancozeb 45 WP @ 2gm /litre with the help of hand operated knapsack sprayer. Technology option 3 (Alternate practice) Seed treatment with <i>P fluroscens</i> @ 1 kg/ acre at 30 days after transplanting @ Foliar application of <i>P. fluroscens</i> @ 2.5 kg/ hectare at 45 DAT + Spraying Tricyclazole 75 WP @ 1gm /lit with the help of hand operated knapsack sprayer.							
4	Source of technology	Technology Option 1: Farmers Practice Technology Option 2: TNAU, Coimbatore Technology Option 3: CRRI, Cuttack	Technology Option 1: Farmers Practice Technology Option 2: TNAU, Coimbatore Technology Option 3: CRRL Cuttack						
5	Production system and thematic area	Integrated and IPM in Paddy							
6	Performance of the Technology with performance indicators	Alternate practice	Recommended Practice	Farmers Practice					
	Production per unit area(Ton/Ha)	6.561 6.092 3.990							
	Gross Cost (Rs/Ha)	15577	13490	11558					
	Gross Return (Rs/Ha)	42646	39598	32435					
	Net Return (Rs/Ha)	27069	26108	20877					
	BC Ratio	1.32	2.02	2.18					
	Percent Incidence	81.7	89.4	95.3					
	Control Efficiency %	10.01	8.72	3.54					
	% infested tillers	81.8	89.1	95.4					
	% yield increase	64.40	53.08	-					
	Quality of grains	Good	Good	Good					
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Percent incidence at different levels, control efficiency, percent yield increase, quality of grains, yield, BCR							
8	Final recommendation for micro level situation	The yield in Alternate Practice is 6561 kg/ha with an increased percent of 64.40 over control. Similarly the yield of Recommended Practices is 6092 kg/ha than Farmers Practice 3990 kg/ha which is 53.08 yield increase over control.							
9	Constraints identified and feedback for research	NIL							
10	Process of farmers participation and their reaction	Farmers have adopted the technology given paddy.	by CRRI, Cuttack to manage Br	own Leaf Spot disease in					

1	Title of Technology Assessed	Assessment of new French Bean variety – Arka Anoop		
2	Problem Definition	In the last two decades, the farmers are cultivating the French Beans as a remunerative crop. But the farmers are cultivating old variety and its having the characteristics of more fibre content and susceptible to rust diseases. The assessment of new variety having the following marketable characters like; 1.Resistant to bacterial and rust diseases 2.Plants are bushy and photo- insensitive 3.Pods are ready to harvest in 45 days after sowing 4.Pods are flat, smooth, long (17-18 cm) and crisp with less parchment 5.Average yield of 20t/ha in 70 days 6. French beans (Phaseolus Vulgaris) are a predominant vegetable crop in Theni District. Though the crop is more remunerative for the past 15 years, the farmers are cultivating the same variety named Arka Komal. Consumer preference was very low for this variety due to its high fibre content and stringy characters. The farmers are not aware of the newly released varieties crop in a rea of 100 ha among 70 Ellanatti farmers.		
3	Details of technologies selected for assessment	Technology option 1(Farmer's practice) Local Variety Technology option 2(Recommended Practice) Variety : Arka komal Spacing: 45X30 cm, Fertilizers : 135:135:135 Kg per Ha, FYM : 25 ton per Ha, Chemicals: Kelthane 250 ml per Ha. (Red spider mite): Planto vax 250 ml per Ha. (Rust) Carbendezim 250 gram (Leaf spot). Technology option 3 (Alternate practice) Details of technology: Arka Anoop + 135:135:135 NPK per Ha + seed treatment with carbendezim 4 gram per kg seed, FYM: 25 tons per Ha. (basal application).		
4	Source of technology	Technology Option 1: Farmers Practice Technology Option 2: IIHR, Bangalore Technology Option 3: IIHR, Bangalore		
5	Production system and thematic area	Vegetable based production system		
6	Performance of the Technology with performance indicators	Alternate practice	Recommended Practice	Farmers Practice
	Production per unit area(Ton/Ha)	13.86	8.51	8.42
	Gross Cost (Rs/Ha)	26000	25000	25000
	Gross Return (Rs/Ha)	74340.6	50600	45358
	Net Return (Rs/Ha)	48340.6	25600	20358
	BC Ratio	2.85	2.04	1.8
	Test weight	172.86	139.92	139.61
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Test weight, market preference, yield, BCR		
8	Final recommendation for micro level situation	The yield of Arka Anoop is 13.8 t/ha followed by Arka Komal 8.5 t/ha and in FP: 8.42 t/ha. The yield increase is 83.9% over Arka Komal Variety.		
9	Constraints identified and feedback for research	NIL		
10	Process of farmers participation and their reaction	Farmers revealed planting of Arka Anoop give resistance to bacterial diseases, found bushy in nature, pods are flate, smooth, long and crispy in nature. Yield more compare to other varieties.		
1	Title of Technology Assessed	Assessment of Leaf Reddening Manageme	ant in Cotton	

1	The of Technology Assessed	Assessment of Leaf Reddening Managen	lent in Cotton	
2	Problem Definition	1. Reddening of leaf in cotton, 2. Reduced Boll size, 3. Poor boll bursting, 4. Reduced yield, 5. Reddening of leaf in cotton in an area of 50 ha among 150 Rasingapuram farmers.		
3	Details of technologies selected for assessment	Technology option 1(Farmer's practice) Variety: SVPR 2, Fertilizer: 100 Kg DAP and 50 Kg MoP/ha Technology option 2 (Recommended Practice) Variety: SVPR 2, Fertilizer: 80:40:40 Kg NPK/ha, Basal application 25 kg/ha of MgSO ₄ , Foliar application: 5% MgSO ₄ Technology option 3 (Alternate practice) Variety: SVPR 2, Fertilizer: 80:40:40 Kg NPK/ha, Basal application 25 kg/ha of MgSO ₄ , Foliar application: 3% MgSO ₄		
4	Source of technology	Technology Option 1: Farmers Practice Technology Option 2: TNAU, Coimbatore Technology Option 3: Farmers Innovation		
5	Production system and thematic area	Irrigated management of leaf reddening in o	cotton	
6	Performance of the Technology with performance indicators	Alternate practice	Recommended Practice	Farmers Practice
	Production per unit area(Ton/Ha)	1.844	1.738	1.335
	Gross Cost (Rs/Ha)	43240	40360	38860
	Gross Return (Rs/Ha)	92200	86900	66750
	Net Return (Rs/Ha)	48960	46540	27890
	BC Ratio	1.89	1.80	1.60
	Percent reduction	91.25	90.25	19.74
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Percent reduction of Reddening of leaf, yie	id, BCR	
8	Final recommendation for micro level situation	The yield of cotton in Alternate Practi Recommended Practice 1738 kg/ha. 5% M plan it shows burnt appearance.	ice is 1804 kg/ha which is pr MgSO ₄ spray cause scorching eff	roportionally equal to ect in one tenth of the

9	Constraints identified and feedback for	NIL
	research	
10	Process of farmers participation and	Farmers have adopted to spray 3% MgSO ₄ to avoid reddening of leafs in cotton.
	their reaction	

1	Title of Technology Assessed	Assessment of Suitable Planting Method in Redgram		
2	Problem Definition	1. To produce healthy seedlings through protray method 2. Transplanting, 3. Lower yield due to unpredictable and erratic rainfall, 4.Poor germination and poor field establishment in an area of 50 ha among 50 Kuppinayakkanpatti farmers.		
3	Details of technologies selected for assessment	Technology option 1(Farmer's practice) Conventional method of Redgram cultivation Technology option 2 (Recommended Practice) Seeds dibbling by hand recommended by TNAU a. Recommended practice for adoption: Recommended fertilizer: 12.5:25:12.5 kgs of NPK / ha. Foliar spray of DAP 2% and NAA 40 ppm at flowering stage and 15 days after first spray. Technology option 3 (Alternate practice) Seedlings raised in Polythene bags and transplanted in Main field		
4	Source of technology	Technology Option 1: Farmers Practice Technology Option 2: TNAU, Coimbatore Technology Option 3: UAS		
5	Production system and thematic area	Irrigated with Integrated Crop Management		
6	Performance of the Technology with performance indicators	Alternate practice	Recommended Practice	Farmers Practice
	Production per unit area(Ton/Ha)	1.130	1.075	0.825
	Gross Cost (Rs/Ha)	22175	20150	18400
	Gross Return (Rs/Ha)	56500	53750	41250
	Net Return (Rs/Ha)	34325	33600	22850
	BC Ratio	2.67	2.12	2.047
	Germination %	97.67	72.19	60.83
	Plant populats/m ²	11.6	10.8	9.2
	No. of Pod/plant	700	657	612
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Germination Percentage, Plant population, No. of pod/plant, yield, BCR		
8	Final recommendation for micro level situation	The yield of redgram in transplanted method assured good return with 1.13 t/ha followed by seed dippling method 1.075 t/ha		
9	Constraints identified and feedback for research	NIL		
10	Process of farmers participation and their reaction	In transplanted method causalities can be substituted with seedlings raised in polythene bags.		

1	Title of Technology Assessed	Assessment of Suitable Method of Planting in Banana for higher profitability		
2	Problem Definition	Low yield and low density of population and less productivity and profitability.		
3	Details of technologies selected for assessment	Technology option 1 (Farmer's practice) Planting at the spacing of 1.5x1.5m (single suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and input efficiency is also low Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair row method of planting with the spacing of 2 m with single suckers(5250 suckers/ha). Higher population and higher yield Technology option 3 (Alternate practice) High density planting with the spacing of 1.8 x 3.6 (three suckers per pit=4630 suckers/ha). Higher propulation, higher yield and higher profitability		
4	Source of technology	Technology Option 1: Farmers Practice Technology Option 2: TNAU, Coimbatore Technology Option 3: NRCB, Trichy		
5	Production system and thematic area	Ratoon Banana under garden land situation.		
6	Performance of the Technology with performance indicators	Alternate practice	Recommended Practice	Farmers Practice
	Production per unit area(Ton/Ha)			
	Gross Cost (Rs/Ha)			
	Gross Return (Rs/Ha)			
	Net Return (Rs/Ha)	OFT under Progress		
	BC Ratio			
	Percent Incidence			
	Control Efficiency %			
	No. of Plants affected /10			
	No. of Flies Trapped /Plant			
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	No. of hands/bunch, No. of fingers/bunch, bu	inch weight, yield/ha, BCR	

8	Final recommendation for micro level situation	-		
9	Constraints identified and feedback for research	-		
10	Process of farmers participation and their reaction	Farmers observed the planting method unde	er paired row planting, triple such	cer planting
1	Title of Technology Assessed	Assessment of Performance and Suitability	ty of various Weeders in Paddy	y Cultivation
2	Problem Definition	Mechanized farming is slowly get acceptance in many areas to overcome the labour shortage. In rice cultivation, weeding is a major concern to determine the yield of the crop. Though different type of weeders (Motorized weeder, Cono weeder and rotary weeder) is used for controlling weeds, ergonomics play a major role in success of every implement. The usage of weeder are measured in term of ergonomics, implement use efficiency, weed control efficiency, tillering efficiency of rice crops and economics are worked out for both the weeders. The yield of rice crop was mainly determined by weeding and proper nutrient management practices. Now the district is facing acute labour shortage for agricultural work. Due to this, weeding operation was not carried out in time. The weeds are compete with main crops for nutrient, water, light and spacing and finally the weeds are occupied major area within a short span and reduce the yield of main crop in an area of 200 ha among 300 Kutchanoor		
3	Details of technologies selected for assessment	Technology option 1(Farmer's practice) 4 ti Technology option 2 (Recommended Practic Technology option 3 (Alternate practice 1) M Technology option 4 (Alternate practice 2) I	mes weeding with single row co ce) 4 times weeding with rotary Multi Row Power Weeder Power Weeder (MDU, Madurai)	no weeder. weeder.
4	Source of technology	Technology Option 1: Farmers Practice Technology Option 2: TNAU, Coimbator Technology Option 3: TNAU, Coimbator Technology Option4: KVK, Madurai	e e	
5	Production system and thematic area	Rice based cropping system		
6	Performance of the Technology with performance indicators	Alternate practice	Recommended Practice	Farmers Practice
	Production per unit area(Ton/Ha)			
	Gross Cost (Rs/Ha)			
	Gross Return (Rs/Ha)			
	Net Return (Rs/Ha)	OFT under Progress		
	BC Ratio			
	Percent Incidence			
	Control Efficiency %			
	No. of Plants affected /10			
	No. of Flies Trapped /Plant			
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Area coverage, weed control efficiency, o productive tillers/hill, yield, BCR	drudgery reduction, time and 1	abour requirement. No. of
8	Final recommendation for micro level situation	OFT under progress		
9	Constraints identified and feedback for research	-		
10	Process of farmers participation and their reaction	Farmers have directly involved in the demo- weeder, power weeder. The result of nutria	nstration of weeding cono weede row power weeder is availabilit	er, Rotary weeder, power y.

1	Title of Technology Assessed	Assessment of oral pellet vaccination in Desi Chicken		
2	Problem Definition	Assessment of Oral Pellet Vaccination in De	Assessment of Oral Pellet Vaccination in Desi Chicken, No Vaccination or Management for Ranikhet	
		disease in Desi Chicken in an area of 1000 b	irds among 50 Ellapatti farmers.	
3	Details of technologies selected for	Technology option 1(Farmer's practice) No	Vaccination or Vaccination at 8t	^h to 10 th week with RDVK
	assessment	vaccine at Veterinary Dispensaries		
		Technology option 2 (Recommended Practic	e) 1.Lasota vaccine – Eye drops	$s - 7^{th}$ and 14^{th} day,
		2.RDVK-Subcutaneous 8th and 16th week		
		Technology option 3 (Alternate practice) 1.0	Oral Pellet ranikhet Vaccine on the	he 7 th to 14 th day, 2.RDVK-
		Subcutaneous 8 th and 16 th week.		
4	Source of technology	Technology Option 1: Farmers Practice		
		Technology Option 2: TANUVAS, Chenna	ai	
		Technology Option 3: TANUVAS, Chenna	ai	
5	Production system and thematic area	Poultry farming management of Ranikhelt D	isease	
6	Performance of the Technology with performance indicators	Alternate practice	Recommended Practice	Farmers Practice
	Production per unit area(Ton/Ha)			
	Gross Cost (Rs/Ha)			
	Gross Return (Rs/Ha)			

	Net Return (Rs/Ha)	OFT under Progress		
	BC Ratio			
	Percent Incidence			
	Control Efficiency %			
	No. of Plants affected /10			
	No. of Flies Trapped /Plant			
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	One drop of blood in filter paper on 8 th wee flock (10% of the bird morality pattern age w	k both in non vaccinated (5% vise.	of the bird) and vaccinated
8	Final recommendation for micro level situation	OFT under progress		
9	Constraints identified and feedback for research	-		
10	Process of farmers participation and their reaction	The poultry growers testing the vaccination a	and the programme is in progres	58.

1	Title of Technology Assessed	Assessment of regular mineral mixture		
2	Problem Definition	Assessment of regular mineral mixture, Irre among 10 farmers.	gular mineral supplementation in	a minimum of 3 cows
3	Details of technologies selected for assessment	Technology option 1 (Farmer's practice) No / Irregular Mineral supplementation Technology option 2 (Recommended Practice) Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving Technology option 3 (Alternate practice) Area Specific Mineral Mixture: 30-50 g/day continuously for one year from the first day after calving		
4	Source of technology	Technology Option 1: Farmers Practice Technology Option 2: TANUVAS, Chennai Technology Option 3: TANUVAS, Chennai		
5	Production system and thematic area	Dairy cattle with management of mineral su	ıpplement	
6	Performance of the Technology with performance indicators	Alternate practice	Recommended Practice	Farmers Practice
	Production per unit area(Ton/Ha)			
	Gross Cost (Rs/Ha)			
	Gross Return (Rs/Ha)			
	Net Return (Rs/Ha)	OFT under Progress		
	BC Ratio			
	Percent Incidence			
	Control Efficiency %			
	No. of Plants affected /10			
	No. of Flies Trapped /Plant			
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Milk yield during lactating period, onset conception.	of estrum after calving, No. of	of semination required for
8	Final recommendation for micro level situation	OFT under progress		
9	Constraints identified and feedback for research	NIL		
10	Process of farmers participation and their reaction	The cattle growers utilizing mineral mixtur	e in the programme and it is in ob	oservation.

Results of OFT is completed for the year 2009-10:

1	Title of Technology Assessed	Assessment of Suitable Planting method in Banana for higher profitability				
2	Problem Definition	The productivity of input and profitability of banana growers is decreasing and cost of cultivation is				
		increasing every year.				
3	Details of technologies selected for	Technology option 1(Farmer's practice) Planting at the spacing of 1.5x1.5m (single				
	assessment	suckers=4400plants/ha) Even though planting at closer spacing, the number of bunches/ha is less and				
		input efficiency is also low				
		Technology option 2 (Recommended Practice) High density planting at the spacing of 1.2x1.2m pair				
		row method of planting with the spacing of 2 m with single suckers(5250 suckers/ha). Higher				
		population and higher yield				
		Technology option 3 (Alternate practice) High density planting with the spacing of 1.8 x 3.6 (three				
		suckers per pit=4630 suckers/ha). Higher population, higher yield and higher profitability				
4	Source of technology	Technology Option 1: Farmers Practice				
		Technology Option 2: TNAU, Coimbatore				
		Technology Option 3: NRCB, Trichy				
5	Production system and thematic area	Banana under Garden land with high density	planting			
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6	Performance of the Technology with performance indicators	Alternate practice	Recommended Practice	Farmers Practice		
	Production per unit area(Ton/Ha)	101.86	105	96		
	Gross Cost (Rs/Ha)	208350	262500	260000		
	Gross Return (Rs/Ha)	578750	630000	560000		
	Net Return (Rs/Ha)	370400	367500	300000		
	BC Ratio	2.7	2.5	2.24		
	No. of finger/bunch	29.6	30.2	28.7		
	No. of bunches	14.1	15.2	13.8		
	Weight of finger	331 g	342 g	325 g		
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	No. of fingers/bunch, weight of bunch, no. of	f bunches, weight of finger,			
8	Final recommendation for micro level situation	The yield of banana is found higher in farm revealed from No. of fingers/bunch, bunch, b	ners practice with the spacing of bunch weight, etc.,	of 1.5 x 1.5 m which is		
9	Constraints identified and feedback for research	NIL				
10	Process of farmers participation and their reaction	The farmers attributed the yield of banana in	3 treatments were not shown m	uch difference.		

1	Title of Technology Assessed	Approaches for drue	lgery reduction and q	uality improvement of banans	a fibre								
2	Problem Definition Details of technologies selected for	The disposal of pseud the natural fibre at na alternatives for natura generally getting by h non profitable enterpr Technology Option 1	The disposal of pseudo stem after the harvest of banana is a lab our and cost intensive. The demand for the natural fibre at national and international level is high. Nowadays the banana fibre is one of the alternatives for natural fibre for making high quality sarees and currency. The higher quality of the fibre generally getting by hand stripping but hand stripping involve drudgery and outcome is very less and a non profitable enterprises. Technology Ontion 1 (Farmer's practice): Hand stripping High quality of fibre and additional revenue										
	assessment	and enterprises for far Technology Option 2 water for two days. Technology Option 3 ml mixed with 50 ml Technology Option 4 45 min with constant	and enterprises for farm women Technology Option 2(Recommended Practice): Retting by means of chemical NaOH @ 10% at 60 [°] 0 water for two days. Technology Option 3 (Alternate practice)Retting by means of biological organism (CAP enzyme @ ml mixed with 50 ml of water and diluted with 5 litres and keeping for 12 hours) Technology Option 4: Retting by means of biological organism (Xylanase0.1%, P ^H of 9.65 at 70 [°] C f 45 min with constant stirring										
4	Source of technology	Technology Option 2 Technology Option 2 Technology Option 3 Technology Option 4	Technology Option 1: CTRI, Rajmundi Technology Option 2: CTRI, Rajmundi Technology Option 3: Farmers Innovation Technology Option 4: Farmers Innovation										
5	Production system and thematic area	Banana fibre extraction											
6	Performance of the Technology with performance indicators	Alternate practice II	Alternate practice I	Recommended Practice	Farmers Practice								
	Production per unit area(Kg/Ha)	0.544	0.89	0.53	0.348								
	Gross Cost (Rs/Ha)	55300	55250	54350	33450								
	Gross Return (Rs/Ha)	172300	197250	167350	115450								
	Net Return (Rs/Ha)	115000	142000	113000	82000								
	BC Ratio	3.07	3.57	3.07	3.45								
	No. of fibre availability	104	106	113	122								
	Fibre Thickness (mm)	0.116	0.113	0.114	0.113								
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Percent fibre availabi	lity, fibre outcome, fibre	e thichness									
8	Final recommendation for micro level situation	Low drudgery found available in retting wi	as 104% as against the biological CAP enzy	he higher of 122% drudgery. I me.	High quality fibre was								
9	Constraints identified and feedback for research	NIL											
10	Process of farmers participation and their reaction	Fibre extraction was very easy with biological cutting process with reduced drudgery and high profit.											
1	That a ferral second and a second		D										
1	The of Technology Assessed	Assessment of Goat	Breeding										
2	Problem Definition	Low weight and low	productivity in Goat. Go	oat husbandry is an important so	ource of livelihood for the								

2	Problem Definition	Low weight and low productivity in Goat. Goat husbandry is an important source of livelihood for the
		rural poor, particularly for the women, land less and marginal farmers. Goat is ideally suited for the
		poorest of the poor, because of short gestation period, Low risk capital investment and low cost of
		maintenance. But, due to the indiscriminate breeding and absence of elite bucks of good breeds, there
		has been severe genetic erosion, resulting in low weight at birth, poor growth and susceptibility to

		various diseases.										
3	Details of technologies selected for assessment	Technology Option 1(Farmer's practice): Natural breeding Technology Option 2(Recommended Practice): AI with Boer goat semen Technology Option 3 (Alternate practice) AI with Tellichery goat semen										
4	Source of technology	Technology Option 1: Farmers Practice Technology Option 2: TANUVAS, Chen Technology Option 3: TANUVAS, Chen	Technology Option 1: Farmers Practice Technology Option 2: TANUVAS, Chennai Technology Option 3: TANUVAS, Chennai									
5	Production system and thematic area	Goat husbandry under rainfed situation										
6	Performance of the Technology with performance indicators	Alternate practice	Recommended Practice	Farmers Practice								
	Production per unit area(kids/birth)	2.1	1.6	1.8								
	Gross Cost (Rs)	400	300	250								
	Gross Return (Rs)	1920	1450	1340								
	Net Return (Rs)	1520	1390									
	BC Ratio	4.81	4.83	5.36								
	Body Weight (kg)	1.74	2.29	1.18								
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Body weight, No. of kids of birth	· · · ·									
8	Final recommendation for micro level situation	He Boer goat semen increased the body weight 2.29 kg in Artifical insemination. In tellicherry goat semen the body weight increased was 1.18 kg.										
9	Constraints identified and feedback for research	NIL										
10	Process of farmers participation and their reaction	The goat growers preferred under AI with	Tellicherry goat semen than other	process.								

1	Title of Technology Assessed	Effect of EM in uptake efficiency, cost reduction, quality and milk production										
2	Problem Definition	The quality of cow milk is low due to improper uptake of fodder and low conversion of feed into milk										
3	Details of technologies selected for assessment	Technology Option 1(Farmer's practice): No Technology Option 2(Recommended Practi cow/ day Concentrate feed 1.5- 2 kg / cow / d Technology Option 3 (Alternate practice) Gr Concentrate feed 1.5- 2 kg / cow / day 200gm/cow/day EM Solution 40 ml/cow/day	g w / day Dry fodder 5 kg / / cow day Dry fodder 5 kg / cow/ day n / cow day EM bokasi									
4	Source of technology	Technology Option 1: Farmers Practice Technology Option 2: TANUVAS, Chennai Technology Option 3: TANUVAS, Chennai										
5	Production system and thematic area	-										
6	Performance of the Technology with performance indicators	Alternate practice	Recommended Practice	Farmers Practice								
	Production per unit area(lt/cow/10 months)	2055	1535	1215								
	Gross Cost (Rs)	14570	12345	10450								
	Gross Return (Rs)	51371	38375	30375								
	Net Return (Rs)	36805	26030	19925								
	BC Ratio	3.52	3.10	2.90								
	SNF %	8.1	7.9	7.8								
	FAT %	4.2	3.8	3.5								
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Milk yield, SNF percent, fat percent mixture										
8	Final recommendation for micro level situation	The milk yield was found highest 2055 lt/cow/10 months in mineral mixture + EM solution fed to the cattle. In unscientific way of feeding cattle the milk yield was less with 1215 lt/cow/10 months. Similarly the SNP percent and fat percent responded accordingly.										
9	Constraints identified and feedback for research	NIL										
10	Process of farmers participation and their reaction	The cattle growers appreciated the practice a the production of milk yield of SNF % and f	dopted in mineral mixture + EM at percent.	I application in increasing								

4.D1. Results of Technologies Refined : NIL Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology refined	Parameters of refined t	Data on the parameter	Results of refinement	Feedback from the farmer	Details of refinement done
1	2	3	4	5	6	7	8	9	10	11

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1					
(Farmer's practice)					
Technology option 2					
Technology option 3					

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

- 1. Title of Technology refined
- 2 Problem Definition
- 3 Details of technologies selected for refinement
- 4 Source of technology
- 5 Production system and thematic area
- 6 Performance of the Technology with performance indicators
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- 8 Final recommendation for micro level situation
- 9 Constraints identified and feedback for research
- 10 Process of farmers participation and their reaction

PART V - FRONTLINE DEMONSTRATIONS

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

SI		Farming	Season		u uuring	2010 1	Thematic		Area (ha) No. of farmers/		Passons for			
N	Category	Situation	and	Crop	Variety/	Hybrid	area	Technology	Alea (der	monstration	n Tradal	shortfall in
IN 0.			rear	-	breed	-		Demonstrated	Proposed	Actual	SC/S1	Others	Total	achievement
	Oilseeds													
	D	D. S. L	171	0	CO (C)		Total and a	Tree Ladian C						
	Pulses	Rainfed	Kharif 2010	Greeng	CO (Gg) 7	-	Weed	Introduction of mini mobile						
							Management,	sprinkler	5 ha	5 ha	2	10	12	
							Varietal							
		Painfed	Pahi	Greeng	CO_{α}		Introduction	Introduction of						
		Rainieu	2010 -	ram	7 (Ug)	-	Crop	improved						
			11				Management	variety Co (Gg)-	3 ha	3 ha	0	12	12	
								7 with seed rate						
	Cereals	Irrigated	Kharif	Paddy	ADT 36	-	Integrated	IPM in Paddy						
		8	2010	,			Pest	and						
							Management	Management of	21	21	0	10	10	
								yellow stem	2 na	2 na	0	10	10	
								folder in paddy						
		X 1 . 1	D.L.	D.		CODI	X 1	CODUA						
		Irrigated	Rabi 2010-	Rice	-	3	Crop	CO RH 3 Hybrid with SRI						
			11			5	Management	with	5 ha	5 h a	0	12	12	
							-	management of	5 na	5 na	0	12	12	
								Sheath blight in Boddy						
		Irrigated	Rabi	Paddy	CO 49	-	Drudgery	Mechanized						
		0	2010-				Reduction	paddy farming	3 ha	3 ha	10	0	10	
┝───		Daim C. 1	11 Kh. 16	Con 1	C= 0.00		technologies	Demulari						
		Rainfed	Kharif 2010	Sorghu	Co S 28	-	Varietal/ Hybrid	of COS28						
			2010				Introduction	01 0 0 0 2 0	5 ha	5 ha	0	12	12	
		Rainfed	Kharif 2010	Maize	-	COH	Popularizatio	Popularization of ICM with						
			2010			IVI 5	In or Integrated	TNAU Maize	4 ha	4 ha	0	10	10	
							Nutrient	Maxim			-	-	-	
							Management							
	Millets													
	Vegetable	Irrigated	Rabi	French	Arka	-	Varietal	Popularization						
	s	0	2010-	Beans	Suvida		introduction	of Arka Suvidha	1 ha	1 ha	0	10	10	
			11											
		Irrigated	Rabi 2010-	Brinjal	Local Variety	-	Popularizatio	INM in Brinjal						
			11		, anoty		Integrated		5 ha	5 ha	0	10	10	
							Nutrient							
	Flowers						Management							
	riowers											l		
	Ornament						1							
ļ	al													
┝───	Emit	Territory ()	Kho 10	Dan	Creat		Denula	ICM := D						
	Fruit	Irrigated	2010	Banan a	Grand Naine	-	ropularizatio	and IIHR						
			2010				Integrated	Banana special	5 ha	5 ha	0	12	12	
							Nutrient	in nutrient						
├───		Irrigated	Kharif	Bapan	Grand	_	Management Popularizatio	management						
		inigated	2010	a	Naine	_	n of	with						
							Integrated	Management of	5 ha	5 ha	0	12	12	
							Disease	Sigatoka Leaf						
		Irrigated	Rabi	Banan	Grand	-	Dam	IDM : D						
		8	2010-	a	Naine		Popularizatio	iPNi in Banana with						
			11				Integrated	Management of	5 ha	5 ha	0	10	10	
							Pest	Pseudostem						
L							Management	weevil						
		Irrigated	Rabi	Banan	Grand	-	Popularizatio	Drudgery reduction in						
			11	а	iname		n or Drudgerv	Banana Fibre	10 units	10	2	8	10	
							reduction	Extraction		units		-	-	
<u> </u>			D.L.		DUD (:		technologies							
		Irrigated	Kabi 2010-	Mango	PKM-1	-	Popularizatio n of	INM in Mango						
			11				Integrated		5 ha	5 ha	5	5	10	
							Nutrient							
	1	1	1			1	Management	1	1	1	1			

-	a :		1			1			1			-	1 1	
	Spices											i		
	and											i		1
	condiment													1
	c											i		1
	3				<u> </u>								↓ /	
												İ		l
	Commerci	Irrigated	Kharif	Sugarc	CO 86032	-	Popularizatio	Popularization						1
	al	0	2010	ane			n of	of ICM with						1
	ai		2010	anc			II OI	TNAU	2 h	2 h	0	10	10	1
							Integrated	INAU	3 na	3 na	0	10	10	1
					1		Nutrient	Sugarcane						1
							Management	Booster						1
-		Indianata d	D.h.	Cattan	DCII 709		Damilariantia	Maalu hua					┟────┦	
		Irrigated	Rabi	Cotton	КСН /08	-	Popularizatio	Meary bug						1
			2010-				n of	Management in						1
			11		1		Integrated	Cotton	5 ha	5 ha	0	12	12	1
							Pest				-			1
							M							1
					ļ		Management							
	Medicinal													1
	and													1
	aromatic													1
	aromatic				<u> </u>								ļ	
	Fodder	Rainfed	Rabi	Mixed	CO FS 29	-	Varietal	Population						1
			2010-	Fodder			Introduct	of Mixed	2 ha	2 ha	0	10	10	1
			11	1 ouuoi			innouuer	Endden	2 110	2	0		10	1
			11		└───		1011	rodder					ļ!	l
														1
	Plantation	Rainfed	Rahi	Cashe	VRI-3	-	Popularizatio	Management of						
	. minution	rainica	2010	cuone	ind 5		r optimizatio	Tas massilts						1
			2010-	w	1		11 01	Tea mosquito			_			1
1			11	1	1	1	integrated	bug in Cashew	5 ha	5 ha	0	10	10	ł
1			1	1	1	1	Pest	1	1			1		ł
							Management							1
-							management							
	Fibre													1
			-		<u> </u>								┟────┦	ł
	Dairy													1
	D L													
	Poultry				ļ									
												i		1
	Pabbitry			1										[
	Kabbiti y		-		L								ļ!	
														1
	Pigerry													
	8)		1					i					ł – – ł	
					ļ								ļ	
	Sheep and											i		1
	goat											i		1
	Ŭ													
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	Duckery													1
-	Common		1					i					ł – – ł	
	Common													1
	carps											İ		
														1
1	Massala													
-	wiusseis							-						
														1
	Ornament													
	alfichas													1
	arrishes													
														1
1	Ovster													
	mushroo													1
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	m				ļ									
														1
	Button							1						
1	Button		1	1	1	1		1	1			1		ł
1	musnroo		1	1	1	1		1	1			1		ł
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<u> </u>	Anicultur	1	1	1		1	İ	t	1					[
1	Apicultur	1	1	1	1	1	1	1	1			i	1 1	1
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 	15		<u> </u>	┫─────	 								└───┘	ł
					L									<u>i </u>
1	Others	-	Kharif	Fruits	-	-	Processi	Introduction				i		1
1	(specify)	1	2010	and	1	1	ng and	of vegetable	1	1		i		ł
1	(speeny)	1	2010	Ma	1	1	Malua	or resolution	1	1	2		10	2.11-34
1	1	1	1	vegeta	1	1	value	preservator	-	-	2	ð	10	∠ Units
1			1	bles	1	1	addition	(CRIDA	1			1	I 1	ł
1			1	1	1			Model)		1		1		ł

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

SI.	Category	Farming Situation	Season and	Crop	Variety/	Hybrid	Thematic area	Technology	Season	St	Status of soil		Previous crop grown
No.	cuttgory	Situation	Year	crop	breed	119,0114	ui cu	Demonstrated	and year	Ν	Р	К	grown
	Oilseeds												
	Pulses	Rainfed	Kharif 2010	Greengram	CO (Gg) 7	-	Integrated Weed Management, Varietal Introduction	Introduction of mini mobile sprinkler	Kharif 2010	41	19	81	Cumbu
	<u> </u>	Rainfed	Rabi 2010-11	Greengram	CO (Gg) 7	-	Integrated Crop Management	Introduction of improved variety Co(Gg)- 7 with seed rate of 25 Kg/ha	Rabi 2010-11	47	21	95	Cumbu
	Cereals	Irrigated	2010	Paddy	ADI 36	-	Integrated Pest Management	IPM in Paddy and Management of yellow stem borer and Leaf folder in paddy	2010	62	31	129	Rice
		Irrigated	Rabi 2010-11	Rice	-	CORH 3	Integrated Crop Management	CO RH 3 Hybrid with SRI with management of Sheath blight in Paddy	Rabi 2010-11	64	30	110	Rice
		Irrigated	Rabi 2010-11	Paddy	CO 49	-	Drudgery Reduction technologies	Mechanized paddy farming	Rabi 2010-11	67	36	125	Rice
		Rainfed	Kharif 2010	Sorghum	Co S 28	-	Varietal/ Hybrid Introduction	Popularization of Co S 28	Kharif 2010	43	22	98	Green gram
		Rainfed	Kharif 2010	Maize	-	COHM 5	Popularization of Integrated Nutrient Management	Popularization of ICM with TNAU Maize Maxim	Kharif 2010	44	21	116	Black gram
	Millets												
	Vegetables	Irrigated	Rabi 2010-11	French Beans	Arka Suvida	-	Varietal introduction	Popularization of Arka Suvidba	Rabi 2010-11	51	36	77	Maize
		Irrigated	Rabi 2010-11	Brinjal	Local Variety	-	Popularization of Integrated Nutrient Management	INM in Brinjal	Rabi 2010-11	57	41	127	Lab Lab
	Flowers						intunugement						
	Ornamental												
	Fruit	Irrigated	Kharif 2010	Banana	Grand Naine	-	Popularization of Integrated Nutrient Management	ICM in Banana and IIHR Banana special in nutrient management	Kharif 2010	88	61	174	Groundnut
		Irrigated	Kharif 2010	Banana	Grand Naine	-	Popularization of Integrated Disease Management	IDM in Banana with Management of Sigatoka Leaf Spot in Banana	Kharif 2010	86	58	176	Tomato
		Irrigated	Rabi 2010	Banana	Grand Naine	-	Popularization of Integrated Pest Management	IPM in Banana with Management of Pseudostem weevil	Rabi 2010-11	81	67	132	Tomato
		Irrigated	Rabi 2010-11	Banana	Grand Naine	-	Popularization of Drudgery reduction technologies	Drudgery reduction in Banana Fibre Extraction	Rabi 2010-11	77	65	112	Maize
		Irrigated	Rabi 2010-11	Mango	PKM-1	-	Popularization of Integrated Nutrient Management	INM in Mango	Rabi 2010-11	81	51	146	Tomato
	Spices and condiments												
		.	171 12	9	00.010-1		D 1 1 1		171 10				D
	Commercial	Irrigated	Kharif 2010	Sugarcane	CO 86032	-	Popularization of Integrated Nutrient Management	Popularization of ICM with TNAU Sugarcane Booster	Kharif 2010	36	17	76	Beetroot
		Irrigated	Rabi 2010-11	Cotton	RCH 708	-	Popularization of Integrated Pest	Mealy bug Management in Cotton	Rabi 2010-11	72	41	83	Cluster Bean

SI.	Category	Farming Situation	Season and	Сгор	Variety/	Hybrid	Thematic area	Technology	Season	St	atus of soil		Previous crop grown
190.			Year		breed			Demonstrated	and year	Ν	Р	K	
							Management						
	Medicinal and aromatic												
	Fodder	Rainfed	Rabi 2010-11	Mixed Fodder	CO FS 29	-	Varietal Introduction	Population of Mixed Fodder	Rabi 2010-11	35	17	94	Green gram
	Plantation	Rainfed	Rabi 2010-11	Cashew	VRI-3	-	Popularization of integrated Pest Management	Management of Tea mosquito bug in Cashew	Rabi 2010-11	38	19	74	Cashew
	Fibre												
	Others	-	Kharif 2010	Fruits and Vegetables	-	-	Processing and Value addition	Introduction of vegetable preservator (CRIDA Model)	Kharif 2010				

5.B. Results of Frontline Demonstrations

	Name of the	Variet		Farming situation	No.	Are		Yield	l (q/ha)		%	*Econo (Rs./ha	mics of	demons	tration		*Economic (Rs.	s of check /ha)	
Crop	demonstrate d	y	Hybrid		De mo.	a (ha)		Demo		Che ck	Incre ase	Gros s Cost	Gross Return	Net Return	BC R	Gros s Cost	Gross Return	Net Return	BC R
							Н	L	А										
Oilseed s																			
Pulses Greeng ram	Introduction of mini mobile sprinkler	CO (Gg) 7	-	Rain fed	12	5	9. 71	8.3 2	9.1 2	7.5 8	21.9	8000	22443	14443	2.8 0	7231	17519	10288	2.42
Greeng ram	Introduction of improved variety Co(Gg)-7 with seed rate of 25 Kg/ha	CO (Gg) 7	-	Rain fed	12	3	10 .0 3	9.0 8	9.6 1	7.5 8	24.4	8741	23173	14438	2.6	7631	17519	9888	2.29
Cereals Paddy	IPM in Paddy and Management of yellow stem borer and Leaf folder in paddy	ADT 36	-	Irrigated	10	2	49 .6	42. 3	46. 5	43. 2	14.8	2540 0	54150	28750	2.1 3	2540 0	46785. 6	21385. 6	1.84
Rice	CO RH 3 Hybrid with SRI with management of Shealth blight in Paddy	-	CORH 3	Irrigated	12	5	88 .6	82. 1	85. 3	66. 5	28.01	3500 0	95953. 8	60953. 8	2.7 4	2500 0	61586. 3	36586. 3	2.46
Paddy	Mechanised paddy farming	CO 49	-	Irrigated	10	5	50 .6	43. 7	48. 5	43. 1	17.4	2500 0	54799. 8	29799. 8	2.1 9	2500 0	21677. 3	46677. 3	1.87
Sorghu	Co S 28	Co S	-	Rainfed	12	5	26	18.	21.	18.	21.6	1672	42520	25799	2.5	1650	38500	22000	2.31
Maize Millets	Popularizatio n of ICM with TNAU Maize Maxim	-	COH M 5	Rainfed	10	4	.2 72 .8	63. 4	68. 5	43. 6	66.9	3543 5	80080	44645	2.2 5	2563 8	47960	22322	1.8
Wintets																			
Vegeta bles French Beans	Popularizatio n of Arka Suvidha	Arka Suvida	-	Irrigated	10	1	86 .4 1	56. 11	75. 75	53. 13	15.05	1200 0	40300	28300	3.3 5	1120 0	35400	24200	3.16
Brinjal	INM in Brinjal	Local Variet y	-	Irrigated	10	5	25 8. 8	19 7.3	22 7.5	189 .6	36.4	1860 0	48544	29944	2.6 0	1625 0	40150	23900	2.46
Flower s																			
Ornam ental																			

	Name of the	Variat		Farming situation	No.	Are		Yield	l (q/ha)		%	*Econo (Rs./ha	omics of	demons	tration		*Economic (Rs.	s of check /ha)	
Crop	demonstrate d	y	Hybrid		De mo.	a (ha)		Demo		Che ck	Incre ase	Gros s Cost	Gross Return	Net Return	** BC R	Gros s Cost	Gross Return	Net Return	** BC R
							Н	L	Α										
Fruits Banana	ICM in Banana and IIHR Banana special in nutrient management	Grand Naine	-	Irrigated	12	5	10 78	95 3	11 00. 5	922 .1	14.2	2750 00	86240 0	58700 0	3.1 3	2475 15	73768 8	49017 3	2.98
Banana	IDM in Banana with Management of Sigatoka Leaf Spot in Banana	Grand Naine	-	Irrigated	10	5	10 45	82 31	93 6	794	17.88	2950 00	83600 0	54100 0	2.8 5	2520 00	63520 0	38320 0	2.52
Banana	IPM in Banana with Management of Pseudostem weevil	Grant Naine	-	Irrigated	10	5	10 21	89 6	95 7	802 .3	27.2	2980 00	81680 0	51800 0	2.7 4	2675 00	64184 0	37434 0	2.39
Banana	Drudgery reduction in Banana Fibre Extraction	Grant Naine	-	Irrigated	10	10	0. 88 6k g/ hr	0.4 44 kg/ hr	0.5 48 kg/ hr	0.3 84k g/hr	133	8464 0	16200 0	77360	1.9	6309 2	10751 2	30152	1.70
Mango	INM in Mango	PKM- 1	-	Irrigated	10	5	17 8. 3	12 4.5	15 3.2	123 .1	24.39	2040 0	69356	48956	3.3	1725 0	43125	25875	2.50
Spices and condim ents																			
Comm ercial Sugarc ane	Popularizatio n of ICM with TNAU Sugarcane Booster	CO 86032	-	Irrigated	10	3	12 43 .4	94 23 8	10 22. 3	856 .2	45.2	5800 0	13673 0	78730	2.3 5	5200 0	94160	42160	1.81
Cotton	Mealy bug Management in Cotton	-	RCH 708	Irrigated	12	5	36 .5	21. 7	27. 9	19. 21	45.23	2270 0	78120	55420	3.4 4	2070 0	53788	33088	1.62
Medici nal and aromati c																			
Fodder	Populati on of Mixed Fodder	CO FS 29	-	Rainfed		1	1	1		1	D	emonstrat	ion under p	orogress	I	1	1	1	<u> </u>
Dlantati	Managamart	VPI 2		Dainfad															
on Cashe w	of Tea mosquito bug in Cashew	VKI-3	-	Kainied	10	5	1. 28 1	0.8 36	0.9 26	1.7 95	61.1	2400 0	64050	40050	2.6	3975 0	29720	10030	1.33
Fibre			<u> </u>				<u> </u>										<u> </u>	<u> </u>	
Others (pl. specify)	Introduction of vegetable preservator (CRIDA	-	-	-	10	-	96	48	72	30	2.20	3600	4800	1200	1.3 3	1000	1800	800	1.8

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

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

Data on other parameters in relation to technology demonstrated										
Parameter with unit	Demo	Local								
Greengram (Kharif 2010)										
No. of pods/plant	68	57								
No. of seeds/pod	8	5								
Test weight	6.3gm	4.2gm								
Yield	912 kg/ha	758 kg/ha								
Greengram (Rabi 2010 -11)										
No. of pods/plant	73	57								
No. of seeds/pod	8	5								
Test weight	6.5gm	4.2gm								

Yield	961kg/ha	758 kg/ha
Paddy (Kharif 10)		
Plant Height	102.6 cm	94.2 cm
Panicle Length	22.2 cm	19.6 cm
% of reduction in Yellow stem borer	02.4%	22.0%
&Leaf folder .	93.4%	23.8%
Rice (Rabi 10-11)		
Plant Height	110.6 cm	94.2 cm
Panicle Length	26.2 cm	22.4 cm
1000 grain weight	28.6 gm	15.5 gm
Paddy (Pabi 10-11)	2010 811	1010 g.m
Plant Height	105.8 cm	04.3 cm
Doniela Length	24.7 am	21.7 am
	24.7 CIII	21.7 cm
% of efficiency	02.8%	20.9%
Afea coverage	0.72 cents/acre/nr	10 farm womens/acre/day
Time saving	/ hrs	-
Labour saving	1	-
Sorghum (Kharif 10)	170	
Plant Height	170 cm	165 cm
Ear head weight	35.2 gm	30.3 gm
No. of filled grain	1560	1471
Maize(Kharif 10)		
Plant Height	195 cm	187 cm
No. of leaves/plant	12	10
100 seed weight	119.6	110.7
French Beans (Rabi 10-11)		
Plant Height	48 .3 cm	41.6 cm
Inflorescence Length	26 cm	21.3 cm
No. of flowers	120	96
Fruit Weight	15.8 gm	12.3 gm
Pod length	13.3 cm	11.8 cm
Brinial (Rabi 10-11)		
No. of flowers/plant	186	163
No. of fruits/plant	168	105
Plant Height	75 cm	60 cm
Panana (Kharif 10)	75 еш	00 cm
No. of hands/hunch	15	12
No. of fingers/hand	25	12
No. of fingers/fiand	200	102
Individual ifuit weight	300 gm	192 gm
Bunch weight	48 Kg	32.6 Кд
Banana (Kharif 10)		
No. of hands/bunch	14	11
No. of fingers/hand	20	15
Individual fruit weight	275 gm	210 gm
% of reduction in Sigatoka Leaf Spot	92.8%	22.6%
Banana (Rabi 10 –11)		
No. of hands/bunch	14	11
No. of fingers/hand	22	15
Individual fruit weight	286 gm	210 gm
% of reduction in Pseudostem Weevil	98.3%	42.6%
Mango (Rabi 10 –11)		
No. of inflorescence/branch	5	3
No. of branches/tree	320	305
No. of fruits/tree	1520	1150
Individual fruit weight	350 gm	280 gm
Sugarcane (Kharif 10)	~	
Plant height	285 cm	248 cm
Individual Cane Weight	2.6 kg	1.81 kg
Sugar Content	12.2%	11.1%
Cotton (Rabi 10 –11)	1112/0	
Plant height	80 cm	75 cm
No. of branches	15	11
No. of squares/branch	18	12
No. of bolls	10	0
1 NO. 01 DUIIS	01.00/	7
Coshow (Dob; 10, 11)	91.9%	2.5%
Casnew (Kabi 10-11)	200	210
No. of branches/tree	280	210
No. of inflorescence/branch	5	3
No. of truits/branch	60	48
No. of inflorescence/tree	85	73
No. of nuts/inflorescence	14	9
% of reduction in Tea Mosquitobug	95.6%	26.7%
Fodder Sorghum (Rabi 10 –11)		
Plant height		
No. of tiller/plant		
Days to 1 st harvest		Demonstration under progress
Days to ratoon harvest		· -

5.B.2. Livestock and related enterprises

Type of	Name of the		No.	No.		Yield (q/ha)			%	*Eco	nomics of Rs./r	demonstra	ation	*Economics of check (Rs./unit)				
livestock	technology demonstrated	Breed	of Demo	of Units	1	Demo)	Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					Н	L	Α											
Dairy																		
Poultry																		
Rabbitry																		
Pigerry																		
Sheep and																		
goat																		
Duckery																		
Others																		
(pl.specify)																		

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

** BCR= GROSS RETURN/GROSS COST

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

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

5.B.3. Fisheries

Type of	Name of the	Dread	No.	Units/		Yie	ld (q/	ha)	%	*Eco	nomics of Rs./unit) o	demonstra r (Rs./m2)	ation	*	Economic Rs./unit) o	s of check r (Rs./m2)	5
Breed	demonstrated	втееа	Demo	(m ²)	I	Demo)	Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	Α										
Common																	
carps																	
Mussels																	
Ornamental																	
fishes																	
Others																	
(pl.specify)																	1

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

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

Data on additional parameters other than yield (viz., 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

F ature in	Name of the	Variety/	No.	Units/		Yie	ld (q/	'ha)	%	*Eco	nomics of Rs./unit) o	demonstra or (Rs./m2)	ation)	*	Economic Rs./unit) o	s of check or (Rs./m2)	5
Enterprise	demonstrated	species	or Demo	Area {m ² }]	Demo)	Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	Α	ź									
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	Name of the technology demonstrated	No. of	Area covered under	Lat require Man	Labour equirement in Mandays		Savings in labour	*Economics of demonstration (Rs./ha)			ation	*Economics of check (Rs./ha)				
implement	implement in Rs.		Demo	demo in ha	Demo	Check	save	(Rs./ha)	Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	

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

** BCR= GROSS RETURN/GROSS COST

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

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

5.B.6. Cotton NIL

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

Sl. No.	Category	Technology	Variety	Hybrid	Season	Area ((ha)	No dei	No. of farmers demonstration		Reasons for shortfall in achievement
10.		Demonstrated			and year	Proposed	Actual	SC/ST	Others	Total	
	Production Technology										
	IPM										
	Farm Implements										

5.B.6.2 Production technology demonstrations

Performance of demonstrations

Farming situation	Technology Demonstrated	Area (ha)	No.of	Mariata	Variaty Uybrid		Yield (q/ha)		Economics of demonstration (Rs./ha)				Econor	nics of loc	al check (Rs./ha)			
			demo.	variety	iy nybrid				Gross	Gross	Net	BCR	Gross	Gross	Net	BCR		
						Demo	Local		Cost	Return	Return		Cost	Return	Return			

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

G ()	Farming situation	Technology Demonstrated	Area (ha)	No.of	N		Yield (q	/ha)	% Increase	Eco	nomics of (Rs.	demonstrat /ha)	ion	Econor	mics of loc	al check (F	Rs./ha)
Category				demo.	Variety	Hybrid	Demo	Local		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Bt hybrids																	
Desi hybrids (AXA)																	
HXB Hybrids																	
HXH Hybrids																	
Herbacium Varieties																	
Hirsutum Varieties																	
Arboreum Varieties																	

5.B.6.3 Integrated pest management demonstrations

Farming situation	Variety	Hybrid	No. of blocks	Total No. of	Area	Incide disease	nce of pe es (%)	st and	Seed Cotton Yield (q/ha)			Economics of demonstration (Rs./ha)				Economics of local check (Rs./ha)			
				Demo.	(ha)	IPM	Non IPM	% Change	IPM	Non IPM	% Change	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR

5.B.6.4 Demonstrations on farm implements

Name of the	Area	No. of	Name of the technology	Labou	for	
implement	(Ha)	Demo.	demonstrated	operati	on (Rs./ha)	
				Demo	%	
					check	change
Total						

5.B.6.5 Extension	Programmes	organized in	Cotton	Demonstratio	n Plots

Extension activity	No. of								
	Programmes		Participants	5		SC/ST			
		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 /	Name of the technology	Feed Back
	Enterprise	demonstrated	
1	Greengram	Introduction of mini mobile sprinkler	The water supplement through Mini mobile sprinkler was sufficient enough in providing moisture to the crop growth and the yield was satisfied as harvested from irrigated crop
2	Greengram	Introduction of improved variety Co(Gg)-7 with seed rate of 25 Kg/ha	Profused flowering and Uniform pod settings in greengram Co (Gg) 7 variety was observed under the adoption of pulse wonder 2.25 kg/ac, spray during peak flowering stage coinciding evenly distributed rainfall under rainfed condition. The pulse wonder increased drought tolerance and increased yield upto 25% because of decrease in the flower shedding.
3	Paddy	IPM in Paddy and Management of yellow stem borer and Leaf folder in paddy	The technology adopted for the control of yellow stem borer and leaf folder in paddy has resulted in effective control correspondingly the yield has also increased.
4	Rice	CO RH 3 Hybrid with SRI with management of Shealth blight in Paddy	The yield of CORH 3 under SRI practice helped in tiled maximization with time by shealth blight management.
5	Paddy	Mechanised paddy farming	The paddy transplanted reduced the drudgery, high cost of labour and saved the time. The planting was also uniform with required space with single seedling planting.
6	French beans	Popularization of Arka Suvidha	New variety of French beans increases the yield
7	Brinjal	INM in Brinjal	The spray of IIHR Vegetable special in brinjal helped in flower retention and fruit for formation for heavy bearing.
8	Sorghum	Co S 28	The sorghum CO S 28 was able to with stand prolonged drought upto 30 days and it gives good yield.
9	Maize	Popularization of ICM with TNAU Maize Maxim	The spray of TNAU Maize Maxim has satisfied the micro nutrient requirement and resulted in uniform grain filling, increased grain yield particularly. In rainfed condition it improved drought tolerance.
10	Banana	ICM in Banana and IIHR Banana special in nutrient management	The spray of IIHR Banana special has resulted in uniform bunch emergence, increasing number of hands/bunch and overall bunch weight.
11	Banana	IDM in Banana with Management of Sigatoka Leaf Spot in Banana	The spraying of 0.1% propiciconazol effectively controlled the sigatoka leaf spot and the control efficiency of sigatoka leaf spot is 91.9%.
12	Banana	IPM in Banana with Management of Pseudostem weevil	The technology adopted to control pseudostem weevil effectively reduced the pseudostem infestation and the cost of control measures is less and it is environmentally safe.
13	Banana	Drudgery reduction in Banana Fibre Extraction	The enzyme CAP was very effective in retting process than using sodium hydroxide and conventional method of fibre extraction.
14	Mango	INM in Mango	The spray of IIHR Mango special has resulted in better flower retention and formation and development of huge number of uniform sized mango fruits.
15	Sugarcane	Popularization of ICM with	The spray of TNAU Sugarcane Booster has resulted in enhanced cane growth and weight,

		TNAU Sugarcane Booster	improves intermodal length, improved cane yield, improved sugar content and in water						
			defect condition it increased drought tolerance.						
16	Cotton	Mealybug Management in	Spraying of profenophos 50 EC 1 ml/lt mixed with fish oil resin soap 20 gm/lt effectively						
		Cotton	checked the activity of mealybug and while practicing the fish oil resin soap, it reduces the						
			number of spray. Acephate and Fish oil resin soap mix helped to control the mealybug						
			effectively.						
17	Cashew	Management of Tea mosquito	The alternate spray of different pesticides effectively controls all stages of tea mosquito bug						
		bug in Cashew	and reduces further incidence in the ensuing season.						
18	CRIDA	Introduction of vegetable	The CRIDA preservator enhanced the shelf life of different type of vegetables/fruits during						
	preservator	preservator (CRIDA Model)	different seasons.						
19	Fodder Sorghum	Population of Mixed Fodder	Demonstration in Progress						

5.B.6.7 Farmers' reactions on specific technologies

S. No	Crop /	Name of the technology	Feed Back
	Enterprise	demonstrated	
1	Greengram	Introduction of mini mobile	The farmers accepted the mini mobile sprinkler which provided sufficient moisture to the
		sprinkler	crop in rainfed condition. The yield level of the crop was more satisfied to them.
2	Greengram	Introduction of improved variety	Farmers realised the importance of pulse wonder spraying in decreasing flower shedding
		Co(Gg)-7 with seed rate of 25	better pod formation and drought tolerance in water deficit condition.
		Kg/ha	
3	Paddy	IPM in Paddy and Management	The adoption of helped management practices effective management of Yellow Stem Borer
		of yellow stem borer and Leaf	and Leaf Folder for maximizing the yield.
		folder in paddy	
4	Rice	CO RH 3 Hybrid with SRI with	Farmers opponed that SRI method has helped in production of young virulent seedlings and the
-		management of Shealth blight in	field establishment was very god because of wide spacing. The blight disease infestation was
		Paddy	also effectively controlled.
5	Paddy	Mechanised paddy farming	Farmers appreciated this mechanization in paddy transplanting technology. It saves the labour
	-		cost and time management, uniform spacing in paddy transplanting.
6	French beans	Popularization of Arka Suvidha	Farmers accepted the variety of French Beans Arka Suvidha under irrigated condition which
			helped in increasing the disease resistance and yield.
7	Brinjal	INM in Brinjal	The farmers realized the importance of foliar application of micro nutrients as vegetable
			special in increasing flower retention and shining of Brinjal
8	Sorghum	Co S 28	Farmers realized the grain filling for sorghum variety CO S 28 under rainfed condition was
			good even under prolonged condition.
9	Maize	Popularization of ICM with	Farmers who sprayed TNAU Maize Maxim was able to get good filled Maize grains than
10	P	TNAU Maize Maxim	other farmers.
10	Banana	ICM in Banana and IIHR	Farmers indicated the cost saving of foliar application of micro nutrients as banana special
		Banana special in nutrient	which resulted in increasing bunch size and uniformity of fingers which increased
11	Bonono	IDM in Penene with	The technology edented to control the significance was effective and the yield level was
11	Dallalla	Management of Signateka Loof	increased
		Spot in Banana	increased.
12	Banana		The farmers accepted this technology to control the pseudostem weevil as effective. The
	Dununu	IPM in Banana with	infected tree percentage was reduced.
		Management of Pseudostem	
		weevii	
13	Banana	Drudgery reduction in Banana	Farmers appreciated the technology in getting maximum benefit with reduced expenses and
		Fibre Extraction	less energy in getting banana fibre.
14	Mango	INM in Mango	Farmers who sprayed Mango Special was able to get heavy bearing than other farmers who
15	Sugaraana	Popularization of ICM with	was unable to get even normal yield.
15	Sugarcane	TNALL Sugarcana Rooster	Familiers who sprayed TNAO Sugarcane Booster was able to get good cane weight, good
16	Cotton	Mealybug Management in	The technology adopted to control mealybug was effective in checking of mealybug in cotton
10	Cotton	Cotton	ecosystem.
17	Cashew	Management of Tea mosquito	The management practices adopted was very effective to control tea mosquito bug in Cashew
- /		bug in Cashew	
18	CRIDA	Introduction of vegetable	The farmers realized the CRIDA presevator device in increasing the shelf life of
	preservator	preservator (CRIDA Model)	fruits/vegetables.
19	Fodder Sorghum	Population of Mixed Fodder	Demonstration in Progress

5.B.6.8 Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	31	753	-
2	Farmers Training	79	1083	-
3	Media coverage	10	-	-
4	Training for extension functionaries	-	-	-
5	Field Visit	160	1547	-
6	Farmers Scientist Interaction	5	43	-
7	FSC Formation	6	143	-

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids

Tune of	Name of the	Name	No.	A 1700		Yield (q/ha)			%	*Economics of demonstration (Rs./ha)			ation	*Economics of check (Rs./ha)			
Breed	technology demonstrat	of the hybrid	of Demo	(ha)		Demo		Che ck	Incr ease	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
	eu				Н	L	А										
Cereals																	
Bajra	Dopularizatio																
Waize	n of ICM with TNAU Maize Maxim	СОНМ 5	10	4	72. 8	63. 4	68. 5	43.6	66.9	35435	80080	44645	2.25	25638	47960	22322	1.8
Rice	CO RH 3 Hybrid with SRI with management of Shealth blight in Paddy	CORH 3	12	5	88. 6	82. 1	85. 3	66.5	28.01	35000	95953. 8	60953. 8	2.74	25000	61586. 3	36586. 3	2.46
Sorghum																	
Others																	
(pl.speci fy)																	
Total																	
Oilseeds																	
Castor																	
Safflowe r																	
Sesame																	
Sunflow																	
Groundn																	
ut																	
Soybean																	
Others																	
(pl.speci fv)																	
Total																	
Pulses																	
Greengr																	
am																	
m																	
Bengalgr am																	
Redgram																	
Others																	
(pr.speci fy)																	
Total																	
Vegetab																	
Bottle																	
gourd																	
Capsicu m																	
Others (pl speci																	
fy)																	
Total																	
Cucumb er																	
Tomato			1								1			1		1	
Brinjal																	
Okra																	
Onion																	
Potato																	
rield																	

bean																	
Others																	
(pl.speci																	
fy)																	
Total																	
Comme																	
rcial																	
crops																	
Sugarca																	
ne																	
Coconut																	
Cotton	Mealy bug	RCH	10	-	36.	21.	27.	10.01	45.00	22500	70100	55 100	2.11	20700	52500	22000	1.0
	Management in Cotton	708	12	5	5	7	9	19.21	45.23	22700	/8120	55420	3.44	20700	53788	33088	1.62
Total																	
Fodder																	
crops																	
Maize																	
(Fodder)																	
Sorghum																	
(Fodder)																	
Others																	
(pl.speci																	
fy)																	
Total																	

 otal
 Image

 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 Particip	oants			
Area of training	Courses		General			SC/ST			Grand Tota	ıl
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	3	38	17	55	5	0	5	43	17	60
Resource Conservation Technologies										
Cropping Systems	1	4	0	4	2	2	4	6	2	8
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production	1	25	25	50	0	0	0	25	25	50
Nursery management										
Integrated Crop Management	8	173	76	249	38	22	60	211	101	312
Soil and Water Conservation										
Integrated Nutrient Management	10	80	15	95	35	28	63	115	43	158
Production of organic inputs	1	0	10	10	0	0	0	10	0	10
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										

Protective cultivation						
Others (pl.specify)						
b) Fruits						
Training and Pruning						
Layout and Management of Orchards						
Cultivation of Fruit						
Management of young plants/orchards						
Rejuvenation of old orchards						
Export potential fruits						
Micro irrigation systems of orchards						
Plant propagation techniques						
Others (pl.specify)						
c) Ornamental Plants						
Nursery Management						
Management of potted plants						
Export potential of ornamental plants						
Propagation techniques of Ornamental Plants						
Others (pl.specify)						
d) Plantation crops						
Production and Management technology						
Processing and value addition						
Others (pl.specify)						
e) Tuber crops						
Production and Management technology						
Processing and value addition						
Others (pl.specify)						
f) Spices						
Production and Management technology						
Processing and value addition						
Others (pl.specify)						
g) Medicinal and Aromatic Plants						
Nursery management						
Production and management technology						
Post harvest technology and value addition						
Others (pl.specify)						
Soil Health and Fertility Management						
Soil fertility management						
Integrated water management						
Integrated nutrient management						
Production and use of organic inputs						
Management of Problematic soils						
Micro nutrient deficiency in crops						

Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	4	4	1	2	3	1	6	7
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking	1	19	16	35	3	10	13	22	26	48
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	2	0	26	26	0	7	7	0	33	33
Women empowerment										
Location specific drudgery production	1	0	18	18	0	5	5	0	23	23
Rural Crafts										
Women and child care	1	0	2	2	0	9	9	0	11	11
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation	1	10	5	15	5	0	5	15	5	20
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements	2	15	13	28	1	1	2	16	14	30
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)	<u> </u>									
Plant Protection					<u> </u>					
Integrated Pest Management	8	204	85	289	30	8	38	234	93	327
Integrated Disease Management	6	64	17	81	22	2	24	86	19	105
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										

Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater										
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	3	24	26	50	3	7	10	27	33	60
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Small Scale processing	1	8	12	20	9	11	20	17	23	40
Capacity building for ICT application	6	88	47	135	19	11	30	107	58	165
Agro-forestry										
Production technologies										
Nursery management										
1	1	1	1	1		1		1	1	i i

Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	57	752	414	1166	173	125	298	925	539	1464

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

Area of training	No. of				No	. of Particip	oants			
Area of training	Courses	Mala	General	Total	Mala	SC/ST Formala	Total	Mala	Grand Tota	l Total
Crop Production		Walc	remate	Total	Maic	remate	Total	Wate	remate	Totai
Weed Management										
Resource Conservation Technologies	1	17	3	20	4	1	5	21	4	25
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	9	98	27	125	18	2	20	116	29	145
Soil and Water Conservation										
Integrated Nutrient Management	23	291	32	323	117	21	138	408	53	461
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising	1	0	19	19	0	4	4	0	23	23
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										

Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	11	6	17	8	0	8	19	6	25
Production of quality animal products										
1	1	1	1	1	1	1	1	1	1	1

Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	17	17	0	5	5	0	22	22
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	1	0	18	18	0	5	5	0	23	23
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs	3	0	58	58	0	4	4	0	62	62
Storage loss minimization techniques										
Value addition	10	0	184	184	0	36	36	0	220	220
Women empowerment	2	0	38	38	0	3	3	0	41	41
Location specific drudgery production	1	0	19	19	0	4	4	0	23	23
Rural Crafts										
Women and child care	2	0	18	18	0	24	24	0	42	42
Drudgery reduction	4	0	44	44	0	35	35	0	79	79
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation										
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	2	21	34	55	13	12	25	34	46	80
Post Harvest Technology	1	7	5	12	4	0	4	11	5	16
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	21	254	55	309	71	57	128	325	112	437
Integrated Disease Management	8	79	26	105	28	14	42	107	40	147
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										

Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Capacity Building for Income Generation	2	0	39	39	0	4	4	0	43	43
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	93	778	642	1420	263	231	494	1041	873	1914

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

	No. of				No. of	Participa	nts					
Area of training	Courses	Mala	General	Total	Mala	SC/ST	Total	(Mala	Grand Tota	ıl Totol		
Nursery Management of Horticulture crops		Wate	remate	Total	Male	remate	Totai	Male	remate	Total		
Training and pruning of orchards												
Protected cultivation of vegetable crops												
Commercial fruit production												
Integrated farming												
Seed production	1	25	25	50	0	0	0	25	25	50		
Production of organic inputs	1	0	10	10	0	0	0	10	0	10		
Planting material production												
Vermi-culture												
Mushroom Production												
Bee-keeping												
Sericulture												
Repair and maintenance of farm machinery and implements												
Value addition												
Small scale processing	1	8	12	20	9	11	20	17	23	40		
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												
Capacity building for ICT Application	3	24	26	50	3	7	10	27	33	60		
TOTAL	6	57	73	130	12	18	30	79	81	160		

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

					No. of	Participa	nts			
Area of training	No. of Courses		General	Tota	Məl	SC/ST Femal) Məl	Grand Tota	ıl Tota
		Male	Female	l	e	e	Total	e	e	10ta 1
Nursery Management of Horticulture crops	1	0	19	19	0	4	4	0	23	23
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing	2	21	34	55	13	12	25	34	46	80
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			1							
Fish harvest and processing technology										
Fry and fingerling rearing										
Capacity building for income generation activities	2	0	39	39	0	4	4	0	43	43
TOTAL	5	21	92	113	13	20	33	34	112	146

	No. of	No. of Participants								
Area of training	Courses	General			SC/ST			Grand Total		
Desited in the second in California		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	4	55	19	74	10	6	16	65	25	90
Information networking among farmers										
Capacity building for ICT application	3	64	21	85	16	4	20	80	25	105
Management in farm animals										
Livestock feed and fodder production										
Household food security	1	0	4	4	1	2	3	1	6	7
Any other (pl.specify)										
Total	8	119	44	163	27	12	39	146	56	202

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

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

	No. of	No. of No. of Participants									
Area of training	Courses	General		SC/ST			Grand Total				
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
Productivity enhancement in field crops											
Integrated Pest Management											
Integrated Nutrient management											
Rejuvenation of old orchards											
Protected cultivation technology											
Production and use of organic inputs											
Care and maintenance of farm machinery and implements											
Gender mainstreaming through SHGs											
Formation and Management of SHGs											
Women and Child care											
Low cost and nutrient efficient diet designing											
Group Dynamics and farmers organization	4	49	19	68	11	8	19	60	27	87	
Information networking among farmers											
Capacity building for ICT application	1	6	4	10	2	2	4	8	6	14	
Management in farm animals											
Livestock feed and fodder production											
Household food security											
Any other (pl.specify)											
Total	5	55	23	78	13	10	23	68	33	101	

7.G. Sponsored training programmes

		No. of Courses	No. of Participants								
S.No.	Area of training	courses	General		SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Increasing production and productivity of crops	2	55	12	67	0	3	3	55	15	70
1.b.	Commercial production of vegetables										
2	Production and value addition										
2.a.	Fruit Plants	2	67	97	164	15	21	36	82	118	200
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)										
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	4	38	38	76	2	2	4	40	40	80
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 nutritional security										
11.b.	Economic empowerment of women	3	29	46	75	22	23	45	51	69	120
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
12	Agricultural Extension										
12.a.	Capacity Building and Group Dynamics	2	40	3	43	10	0	10	50	3	53
12.b.	Others (pl.specify)										
	Total	13	229	196	425	49	49	98	278	245	523

Details of sponsoring agencies involved

1. CAPART, New Delhi.

- 2. Department of Agricultural Engineering, Theni District.
- 3. ATMA, Theni.
- 4. NABARD, Theni.

		No. of	No. of Participants								
S.No.	Area of training	Courses	General				SC/ST			Grand Tota	1
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming	1	0	10	10	0	0	0	10	0	10
1.f.	Others (pl.specify)										
2	Post harvest technology and value addition										
2.a.	Value addition										
2.b.	Others (pl.specify)										
3.	Livestock and fisheries										
3.a.	Dairy farming										
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl.specify)										
4.	Income generation activities										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides,										
	bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery										
	and implements										
4.d.	Rural Crafts										
4.e.	Seed production	1	25	25	50	0	0	0	25	25	50
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.	1	0	19	19	0	4	4	19	4	23
4.i.	Tailoring, stitching, embroidery, dying etc.	3	29	46	75	22	23	45	51	69	120
4.j.	Agril. para-workers, para-vet training										
4.k.	House Hold food security										
5	Agricultural Extension										
5.a.	Capacity building and group dynamics	5	24	65	89	3	11	14	44	59	103
5.b.	Others (pl.specify)										
	Grand Total	11	78	165	243	25	38	63	149	157	306

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including activities of FLD programmes)

Nature of Extension	No of	No. of Participants (General)			No	. of Participa	ints	No. of extension personnel			
Programme	Programmes	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Field Days	14	262	94	356	55	39	94	0	0	0	
Kisan Mela											
Exhibitions	6	627	133	760	170	51	221	184	15	199	
TV Programmes	-										
Radio Programmes	2	0	0	0	0	0	0	0	0	0	
Film Show	1	1	0	1	0	0	0	0	0	0	
Diagnostic Visits	1	1	0	1	0	0	0	0	0	0	
Animal Camps											
Field Visits	100	784	146	930	156	49	205	25	3	28	
Kisan Gosthi	100	,0.	110	750	100		200	20	5	20	
Mahila Mandals											
Farmers visits to KVK	133	161	25	186	7	3	10	21	0	21	
Advisory enquiry /											
Farmers Meeting											
Farm Science Club	7	1.40	0	1.40	7	2	0	0	0	0	
Meeting	1	140	8	148	/	2	9	0	0	0	
Extension literature	137	1785	1252	3037	379	303	682	20	6	26	
Newspaper/Radio/TV	8										
FFS Demonstration											
Scientists visits to	22	00	44	1/12	Q	2	11	0	2	2	
farmers fields	23	<u>, , , , , , , , , , , , , , , , , , , </u>	44	145	0	3	11	0	2	2	
SHG Formation Self Help Group	6	0	94	94	0	10	10	0	0	0	
meetings	18	0	294	294	0	55	55	0	0	0	
Ex-trainees sammelan	1	0	0	0	0	0	0	28	12	40	
Home visit	76	58	341	399	10	154	164	0	0	0	
Farmwomen visit to	38	0	94	94	0	19	19	0	0	0	
Telephone calls	183	139	31	170	2	1	3	9	0	9	
FLD Farmers Scientists	5	31	12	43	20	12	32	0	0	0	
ELD Eigld visit	60	/06	121	617	116	54	170	0	0	0	
FLD FSC Formation	6	143	0	143	28	0	28	0	0	0	
FLD Field Day	17	309	88	397	45	11	56	0	0	0	
OFT field visit	69	246	98	344	38	37	75	0	0	0	
OFT FSC Meeting	1	20	0	20	5	0	5	0	0	0	
Village forest											
FFS Session Conducted											
Method demonstration	4	50	5	55	30	8	38	0	0	0	
Farmer Enquiry	8	8	0	8	0	0	0	0	0	0	
FFS Field Day	1	15	0	15	5	0	5	0	0	0	
FFS Field Visit	6	36	17	53	4	0	4	0	0	0	
Human Rights Day											
Popular Article											
Lecture Delivered	6	121	84	205	32	30	62	115	55	170	
Field Survey	6	0	0	0	0	0	0	70	26	106	
OFT Field Day	1	21	4	25	4	1	5	0	0	0	
Video Clipping	1	0	0	0	0	0	0	0	0	0	
Awareness Campaign		Ŭ	0	0	0		0	0	0		
on Parthenium	1	0	0	0	0	0	0	29	16	45	
FLD FSC Meting	3	86	0	86	19	0	19	0	0	0	
FLD Training	8	57	10	67	38	20	58	0	0	0	
FLD Demonstration	1	2	0	2	12	8	20	0	0	0	
OFT Training	1	5	0	5	0	0	0	0	0	0	
Farmers Tour	4	76	19	95	15	2	17	0	0	0	
Radio Coverage	2	0	0	0	0	0	0	0	0	0	
Tractor Service Mela	1	10	0	10	0	0	0	0	0	0	
Iechnology Week											
Abuse Prevention and	1	26	31	57	4	4	8	1	9	10	
Awareness Day	1	0	0	0	0	0	0	0	0		
Radio Talk Joint Diagnostic Field	1	0	0	0	0	0	0	0	0	0	
Visit	2	6	0	6	0	0	0	7	0	7	
SMS Messages	56	142	0	142	15	0	15	66	3	69	

World Differently Abled Day	1	0	0	0	0	0	0	25	25	50
Seminar	1	166	234	400	29	45	74	0	0	0
Meet with expert programme	1	30	30	60	5	5	10	0	0	0
Biogas Awareness Camp	1	12	8	20	2	1	3	0	0	0
Awareness Programme for Panchayat Presidents on Disabled Rehabilitants	1	13	5	18	0	0	0	0	0	0
Total	1030	6183	3322	9505	1260	927	2187	600	182	782

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Sorghum	CO S 28	-	12 q	24000	60
Oilseeds	Cumbu	Co Cu 9	-	9 q	18000	40
Pulses	Groundnut	VRI 2	-	16.5 q	41250	30
Commercial crops	Greengram	CO 7	-	8 q	32000	35
Vegetables	Blackgram	VBN 3	-	8 q	60000	30
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others (specify)						
Total				53.5 q	175250	195

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	Cashew	VRI 3	-	3000	15000	10
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others(specify)						
Total				3000	15000	10

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value	Number of farmers to whom provided
		Kg	(Rs.)	
Bio Fertilizers	Vermicompost	7000	35000	35
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others (specify)	Earthworm	159	38850	15
Total		7159	73850	50

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 (Goat)	Kannaiah	2	3000	2
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		2	3000	2

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

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

(A)	KVK News Letter ((Date of start, Periodicity, number of copies di	stributed etc.)
	Date of Start	: January to March 2004
	Periodicity	: Quarterly
	No. of issues during the reporting Period	:4
	No. of copies distributed	:1000

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers			
Technical reports			
News letters	Farm Science News Letter	Dr.P.Marimuthu,	1
		Mr.M.Lord Savariraj	
		Mrs.S.Karpagavalli	
		Mrs.K.Veerasikkammal	
		Mr.N.Raja	
Technical bulletins	Advanced Technologies in Cashew, Coconut, Mango and	Dr.P.Marimuthu,	1
	Sugarcane production	Mr.M.Lord Savariraj	
		Mrs.S.Karpagavalli	
		Mrs.K.Veerasikkammal	
		Mr.N.Raja	
Popular articles	IIHR Banana Special	Dr.P.Marimuthu	1
Extension literature	Cultivation of Arka Rose Onion	Dr.P.Marimuthu,	164
	Integrated Pest and Disease Management in Pulses	Mr.M.Lord Savariraj	
	Induction Training for Special Group Facilitators	Mrs.S.Karpagavalli	
	Project Preparation and Management	Mrs.K.Veerasikkammal	
	Repair and Maintenance of Tractor	Mr.N.Raja	
	Integrated Pest Management in Banana		
	Integrated Nutrient Management in Banana		
	Drudgery Reduction Technologies among Farm Women		
	Documentation and Reporting		
	Integrated Nutrient Management in Lime		
	Management of Tea Mosquito bug in Cashew		
	Onion Pickle Preparation		

	Candle Making
	Agarpathi Making
	Chalk Piece Making
	Cultivation aspects Arka Rose in Onion
	Induction Training for Special group facilitators
	Drudgery Peduction Technologies among form women
	Pollworm Management in Cotton
	Boliworm Management in Cotton
	INM in Maize
	Downy Mildew Management in Grapes
	Integrated Nutrient Management in Banana
	Nutrimix Powder Preparation
	Mango special Nutrient Management
	Post and Disease Management in Pulses
	Fest and Disease Management in Fuises
	Storage Pest Management in Rice
	Women and child care
	Foliar Application of IIHR Banana Special
	Pest and Disease Management in Mango
	Home Care Products
	Onion Pickle Prenaration
	Post and Disease Management in Panana
	Pest and Disease Management in Banana
	Organic Farming
	Monitoring and Evaluation
	Organic Pest Management
	Project Preparation and Management
-	Root Feeding of TNAU Coconut Tonic
	Drudgery Reduction Technologies
	INM in Ronono
L	Leat Reddening Management in Cotton
	Integrated Nutrient Management in Banana
	Onion Pickle Preparation
	Sigatoka leaf spot Management in Banana
-	Foliar Spray of IIHR Banana Special
	Downy Mildew Management in Granes
	Downy Window Wainagement in Orapes
	Cultivation of Moringa
	Vegetables Preservation Technologies
	Project Preparation
	Fruit fly Management in Moringa
	Vegetable Pickle Preparation
	Cultivation of Betelvine
	Organic Post and Disease Management
	Visite Pest and Disease Management
	Vegetable Pickle Preparation
	Leadership Development for Farmers Club Convenors
	Protein Rich foods for Rural Youth
	Pest and Disease Management in Redgram
	Pest and Disease Management in Cumbu
	Nutrition Education for Pregnant Mothers
	Nutrition Education for Freghant Monters
l	r est anu Disease management in Coconut
	Project Planing and Management
	Seed hardening in Sorghum
	Integrated Nutrient Management in Maize
	Nutrimix Powder Preparation
	Pest and Disease Management in Banana
<u> </u>	Maize Cultivation and Fertigation in Maize
	Pest and Disease Management in Maize
<u> </u>	Post and Disease Management in Souther
	rest and Disease Management in Sorgnum
	Sorghum Cultivation and Integrated Nutrient Management
	Nutrient Education
	Integrated Nutrient Management in Sugarcane
	Women and Child Care
	Pest and Disease Management in Paddy
	Income Generating activities for empowerment of rural
	meome Generating activities for empowerment of fural
	women
	Fertigation in Maize
	Pest and Disease Management in Paddy
	CRIDA Vegetable Preservator Technologies
	Development of Social Entrepreneurs
	Management of Brown Leaf Spot in Paddy
	CRI
	Dest and Disease Management in ODI
	rest and Disease Management in SRI
l	Technologies about Paddy Transplantor
	Nutrient Management in Sorghum
	SHG Formation and Maintenance
	Pest and Disease Management in Paddy
	Mini Mobile Sprinkler Technologies

	Integrated Crop Management in Moringa
	Integrated Nutrient Management in Sugarcane
	Foliar application of Banana Special
	Income Generation Activities for Rural Women
	Integrated Pest and Disease Management in Maize
	Greengram Cultivation in Dryland
	Gender Main Stream through SHGs
	Integrated Crop Management in Greengram
	Dryland Management Practices
	Household food security by Kitchen Gardening through farm
	women
	Stem Weevil Management in Banana
	Phytopthora Wilt Management in Betelvine
	Use of Spraying equipments in Agriculture
	Use of Agriculture equipments in Agriculture
	for Purel Youths
	Mechanized Weed Management in Crons
	Water Management through Sprinkler and Drin Irrigation
	and Water Saving devices
	Foliar Application of Pulses Wonder
	Integrated Nutrient Management in Pulses
	Foliar Application of Maize Maxim
	Micronutrient application in Maize
	Maize Cultivation
	Downy Mildew Management in Grapes
	Leaf Reddening Management in Cotton
	Modern Technologies in Sugarcane Cultivation
	Use of Power Sprayer and Dusters in Agricultural Crop
	Protection
	Selection, Operation and Maintenance of Plant Protection
	equipments
	Management of Rural Development Projects
	Women and Child Care
	Micro Nutrient deficiency management in Coconut
	Integrated Dect and Disasse Management in Mange
	Management of Papaya Maalybug
	Integrated Pest and Disease Management in Sugarcane
	Site Specific Nutrient Management in Rice
	Seed Production in Pulses
	SHG Formation and Maintenance
_	Package of Practices for mechanisation in Paddy
	Mechanised weed Management in Crops
	CRIDA Vegetable Preservator technologies
	SRI Cultivation Practices
	Entrepreneurial activity for women and landless in watershed
	area
	Livelihood Development for women and landless in
	watershed area
	Suitable Entrepreneurial activities
	Income Generating activities for rural youth
	Integrated Nutrient Management in Rice
	Integrated Nutrient and Water Management in French Beans
	value aded products from Pickle Preparation
<u> </u>	Impact of Climate Change and Forest Migration
	Pest and Disease Management in Maize at Duraisamyourom
	Pest and Disease Management in Maize at Elavirampanai
<u> </u>	Mixed Fodder Cultivation Practices
	Pest and Disease Management in Moringa
	Fodder Cultivation for Cattle Growers
	Integrated Nutrient Management in Sugarcane and Foliar
	application of Sugarcane Booster
	Foliar application of Maize Maxim
	Maize Cultivation at Duraisamypuram
	Maize Cultivation at Elayirampannai
	Foliar application of Micro Nutrient
	Conservation Agriculture
	Integrated Nutrient Management in Rice and Mechanised
	Weed Management in Crops
 	Sprouted Cereals and Pulses in doily dist
	INM in Banana and Foliar application of Banana Special
	House Hold security by Nutrient Garden
	House Hold security by Muthell Galdell

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	Integrated Pest and Disease Management in French beans	
	Value added products from Tomato	
	Pest and Disease Management in storage on Maize	
	Integrated Pest and Disease Management in Rice	
	Value added products from Bakery	
	Pest and Disease Management in Banana	
	Integrated Pest and Disease Management in Sugarcane	
	Drudgery Reduction technologies among farm women	
	Integrated Pest and Disease Management in Maize	
	Pest and Disease Management in Coconut	
	Value added products from low cost minor millets	
	Integrated Pest Management in Rice	
	Reporting and Documentation	
Others (Pl. specify)		
TOTAL		167

10.B. Details of Electronic Media Produced

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

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

<u>Success Story - I</u> <u>Cultivation of Aloe under Zoro Tillage Practice</u>

Background:

Mr.V.Srinivasa Raghavan aged 52 is a farmer who cultivate and practice advanced technologies to increase the production. Normally he is cultivating Cotton, Maize, Tomato, Chillie, Beetroot, Onion, altogether in 15 acres with adequate irrigation. Apart from this 15 acres of land, he own another 50 acres which are dry undulated and slopy. The soil is highly poor with pebbles and sand which are not suitable for cultivation. Several times he has tried to do intensive cultivation with assured irrigation. He made brewell in his land area, but the water in the bore was very minimum with poor quality which is not sufficient enough for cultivation. He tried to cultivate tree crops such as Tamarind, Cashew and neem. The land is very poor in nutrient even for growing tree. The growth of tree was not to a standard level as other trees grown in normal and fertile land. Hence it was realized and understood by the farmer to change pattern of cultivation from trees to other crops. Sometimes middle man had given much pressure to sell the land to companies of textile mills and wind mills. The farmer was very much stubborn to cultivate the land with a suitable crop.

During the time he has attended the training programme conducted by KVK like FLD, OFT, Extension programme organized for farmers, farm women at KVK. He has acquired basic knowledge and skill on decision making in Agriculture and allied sector. Apart from the training given, he specifically approached the KVK scientists and explained the nature of land and expressed the steps and activities he has spent on every venture, the pain and time he spent over the process of development, the recurrent losses he has incurred in the establishment process, his financial loans in private, public and bank, mental agony he come across in his life because of huge investment, etc. The KVK scientists visited the farm and offered only one suggestion and technologies for adoption.

<u>Technology I – Cultivation:</u>

- 1. Cultivation of Aloe barbadensis
- 2. Spacing 2 feet in the line and 3 feet in the row
- 3. Adoption of drip single point with micro tip
- 4. Optimum clearance of weed growth with sickle
- 5. Zero tillage from starting to end
- Drip irrigation once in a week or 10 days depending upon the water availability from bore which was highly flexible according to winter, summer and rainy days.
- 7. Plant protection with fungicides if disease noticed if any.
- 8. Harvesting matured stuffy and bluffy leaves from button of the stem.

Technology II – Commercial Preparations:

- 1. Plugging the matured leaves.
- 2. Removing the outer layer and extracting crystal pulp alone.
- 3. Using crystal pulp as raw materials for Aloe juice.
- 4. Utilizing Aloe juice for the production of cosmatics, Energy drinks and medicinal peoducts.

Totally more than 100 products are being manufactured at this centre. All the products are packed properly and sold through Medicals, General Stores and Soft drink shops. These products are marketed in local and external market. Apart from own production crystal pulp is sold to other manufacturing units established in other areas for a considerable price.

Concept of Developing the unit:

- By doing Aloe Cultivation,
- Conservation Agriculture is being practiced.
- The input and capital investment cost are very less
- Environmentally safe without disturbing nature.
- The byproducts are highly safe to human health.
- The purchase price is economically cheaper than other synthetic materials in the market.
- More employment opportunity in the cultivation and also in the production.

Impact: Horizontal Spread:

- Zero tillage practices are reducing the cost of cultivation.
- Adoption of other farmers in cultivating the Aloe and selling the some to industry.
- People purchase chemical free natural products from the market.
- Consumer awareness has been created by the sellers in the market.
- Attracted the attension of many people involving in cultivation, especially the dryland and marketers involving in product promotion.
- Herbal cosmatics, Energy drinks and medical products are produced and utilization by consumer produces are poison free, leading to healthy living.

Economic Gains:

The farmer spent less investment cost and get maximum benefit out of the cultivation. The people and the consumer purchase and utilize good healthy product at a reasonable market price.

Employment Generation:

It provides adequate employment generation to the local illiterate people with adequate wages, skilled women in the production unit with weekly remuneration, educated persons in production and marketing, scientists in Research activities, business man in export marketing and other people who directly and indirectly involved.

<u>Success Story - II</u> <u>Yield Maximisation in Banana through High Technology</u>

Background:

Mr.G.Nathan Meeran, S/o Gulam Mohaideen is a farmer from Uthamapalayam, Uthamapalayam Block, Theni District. He own 25 acre of land traditionally from his fore fathers and cultivated Banana, Onion, Beetroot, Coriander, Brinjal, Tomato with an average yield profit of 2 lakhs per year. There are four bore wells available with assured irrigation supply. The acute water shortage due to reduced water supply decreased the area under cultivation and the farmer faced financial problem.

Earlier the farmer cultivated banana 'As it is, where it is'. The production has no quality and quantity. No specific sucker selection and sucker treatment was made. Nutrient application or giving importance to nutritional status of soil was given least importance. Traditional practices of irrigation was followed in check basin with more wastage of water. Intercropping was given much more importance than main crop. More spacing of 7×5 feet was practiced. Un scientific way of cultivation was practiced. The understanding on pest and disease, its control activities was very poor. Wrong selection of pesticides were made for a particular pest or disease. Marketing was not extensive and it was localized. The market price was very low. No storage facilities with cold storage was available.

Intervention:

Process:

The farmer has attended training programme conducted by the KVK scientists. Hence the farmer lured by the scientific adventures communicated in the training and demonstration. Again he separately contacted the KVK scientists and explained the difficulty of getting more income and the prevailing situation in the farm. He narrated the previous procedures adopted in his farm to get income. He revealed the repeated failed process in every attempt he made to get maximum benefit and the loss he incurred everytime. The KVK scientists visited the farm and taught the recent innovations in the field of agriculture. The scientists understood the option of the farmer to proceed further with reduced expenses, inputs, labour storage reduced water potential and with minimum risk. Hence the farmer was introduced with Department of Horticulture, Jain Irrigations, Nagarjuna Fertilizers, NRCB and TNAU Scientists. The farmer visited Jalgoan four times in Maharashtra to study about different irrigation methods, soil study, cultivation practices adopted in Jain Irrigations. There after the KVK scientists explained new innovations in Banana cultivation.

Technology:

After assessing the soil condition, water availability and quality of water, the following technology options were suggested to the farmer for adoption.

- Cultivating Tissue Culture (G9) Banana.
- Adopting drip irrigation system.
- Application of bio inoculants such as pseudomonas, Trichoderma, Bavaria, etc.
- Utilizing waste materials into compost and vermicompost preparation.
- Raising Green manure and insita ploughing.
- Application of Tank silt and FYM, birds leavings.
- Soil rest for one year to avoid banana disease causing fungal spores.
- Adopting paired row planting 4 x 6 ft and 3 sucker planting.
- Utilizing power weeder to reduce weed problem.
- Fertigation through drip. Spraying IIHR Banana Special micro nutrient.
- Bunch cover to avoid dust, pest and disease infestation.
- Inter connection of bore well deliveries and diversifying the routes of water flow to the field where irrigation is most essential.

Marketing:

The farmer was sent to New Delhi to attend Good Agricultural Practice (GAP) which was arranged by the IARI. He learned the market strategies in India and Abroad. He revealed that consumer awareness is very important to avail the product at reasonable rate. Further he opined the farmers need support price for banana and extensive storage facilities has to be created to avoid the perishability of the commodity.

Awards and Membership:

Presently the farmer has received Progressive farmer identity Award from Association for Improvement in Production and Utilization of Banana. Also he is a member of Banana growers Association at All India, Tamilnadu State and Theni district level.

Impact:

Horizontal Spread:

Adoption of the above technology has spread to Surulipatti, KK Patti, NT Patti, Rayappanpatti, Chinnamanur, Erasai, Hanumanthanpatti, Pudupatti, KG Patti villagers. The particular farmer is a Management Committee member of a reputed college in Uthamapalayam. He is having good report with local leading farmers in surrounding villages. Many farmers visit the farm and adopted the technologies and many are likely to adopt the same technology with minimum investment.

Economic Gain:

Presently the farmer gain Rs. 52 lakhs from his 25 acres of farm every year as gross profit. Cost of cultivation also was less and it is affordable. He has acquired enough knowledge on banana cultivation. He has the ability to select the time of planting, input choice with low cost, managing the fertilizer, pesticide dosage, time and quantity of irrigation and harvesting. He plant 52,000 tissue culture plants in 25 acres at an average of 5,200 plants per hectare at an average price of Rs. 200 per bunch. While calculating the expenses, he spent approximately 26 lakhs and gain 52 lakhs as net profit per year.

Employment Generation:

Everyday 10 farm women and five men are working in his farm. Apart from that employment is provided to the casual labourers for Farm Yard Manure application, planting, removed of old pseudostem, hand hoeing, bunding, etc from time to time.

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

Unemployed agricultural graduate has been developed into Agri business consultant to realize yield maximization in Cardomum and Banana.

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK				
1	Greengram	Immediately after the harvest, bold good quality seeds are separated, shade	Storage	without	Pest	and	Disease
		dried, then on new moon day seeds are mixed with dried neem leaves and	d infestation.				
		placed in indigenously designed Bronze storgare bin and fine sand upto 5					
		cm height is spread over and tied with cotton cloth for preservation upto 9					
		months.					

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

No.	Courses for	Identified through			
1.	Farmers	Base line survey			
		 Joint diagnostic survey with Dept. of Agriculture 			
		 Farmers visits to KVK, Scientist's visit to KVK 			
		 Farm Science Club Meeting, Village Development Society Meeting 			
2.	Farm Women	Base line survey, TANWA Trainees			
		Self Help Group Members			
		By Village Meeting			
3.	Rural Youths	Nehru Yuva Kendra			
		DRDA, District Social Welfare Office			
		NSS at School			
		Direct Personal contact of Rural Youths			
4.	In Service Personnel/ Extension	Consultation with higher officials			
	Functionaries				

10.G. Field activities

- i. Number of villages adopted: 36
- ii. No. of farm families selected: 1080
- iii. No. of survey/PRA conducted: 36

10.H. Activities of Soil and Water Testing Laboratory

1.Status of establishment of Lab 2.Year of establishment : Established : **04.08.2006**

3.List of equipn	nents purchased with amount :				
Sl. No	Name of the Equipment	Qty.	Cost		
1.	Spectrophotometer	1	60,000		
2.	Flame photometer	1	50,000		
3.	pH meter	1	10,000		
4.	Physical balance	1	10,000		
5.	Chemical balance	1	1,00,000		
6.	Water distillation Still	2	2,00,000		
7.	Kjeldahl digestion	1	45,000		
8.	Shaker	1	25,000		
9.	Refrigerator	1	20,000		
10.	Hot air oven	1	15,000		
11.	Hot plate	1	25,000		
12.	Grinder	1	30,000		
13.	Racks, Almarah, angle, wash basin, gas burner		3,20,000		
14.	Chemicals, Glasswares		2,50,000		
15.	Pestle mortar, Soil sample auger, Cloth bag, Plastic jar, tray		20,000		
16.	Digital pH meter	1	2,000		
Total			11,82,000		
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	1257	1090	421	62300
Water Samples	930	881	400	46350
Plant samples	7	7	7	700
------------------	------	------	-----	--------
Manure samples	0	0	0	0
Others (specify)	0	0	0	0
Total	2194	1978	828	109350

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	69	69	48	3450
Water Samples	60	60	42	3000
Plant samples	0	0	0	0
Manure samples	0	0	0	0
Others (specify)	0	0	0	0
Total	129	129	90	6450

10.I. Technology Week celebration: NIL Period of observing Technology Week: From Total number of farmers visited to

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			
			1

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	5					
Crops		Area (ha)			Number of b	eneficiarie	8
Oilseeds							
Pulses							
Cereals							
Vegetable crops							
Tuber crops							
Total							
C. Farmers-scientists interaction on live	stock manage	ment					
State		Livestock components		Number of in	nteractions	No.	of participants
Total							
D. Animal health camps organized							
State		Number of camps			No.of animal	ls	No.of farmers
Total							

E. Seed distribution in drought hit states				
State	Crops	Quantity (qtl)	Coverage	Number
			of area	of
			(ha)	farmers

Total														
F. Large	e scale adoptio	n of resource	conservation	technologies	s									
State				(Crops/cultivars and gist of resource conservation Area (ha)					Nu	mber of			
				t	echnologie	s introduced	l						far	mers
Total														
G. Awa	reness campai	gn												
State	Meetings		Gosthies		Field da	ays	Farmers fa	ir	Exh	ibition		Filn	n sho	W
	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														

<u>PART XI. IMPACT</u> 11.A. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill	No. of participants	% of adoption	Change in income (Rs.)			
transferred			Before (Rs./Unit)	After (Rs./Unit)		
Sorghum CO S 28 Cultivation	12	71.3	29400	40000		
Cumbu Co Cu 9 Cultivation	22	62.3	21420	26000		
Redgram Co RG 7 Cultivation	27	47.6	19450	25226		
Greengram Co (Gg) 7 Cultivation	22	38.2	18300	24444		
Blackgram VBN 3 Cultivation	20	64.7	19430	28762		
Foliar Application of IIHR Banana Special	65	67.8	330000	415000		
Mealybug management in Cotton	43	84.3	111420	135831		
Phytophthora Wilt Management in Betelvine	20	64.9	326900	429000		
Fruit fly management in Moringa	23	63.7	315900	421800		
Tea Mosquito bug Management in Cashew	29	44.83	25895	31500		
SRI	20	68.4	26470	35780		
Onion pickle preparation	21	23.81	-	5000/year		
Foliar application of Pulse Wonder	35	59.7	18300	29572		
Foliar application of Maize Maxim	38	76.7	47960	80080		

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

11.B. Cases of large scale adoption

(Please furnish detailed information for each case)

S.No	Village	Discipline	Crop/Enterprise	Technology	Treatment	% of Adoption
1.	Chinnamanur	Plant Protection	Betelvine	Application of Chlorothalanil for	IPM	64.9
	Markayankottai			Pytopthora wilt management		
2.	Alagapurai	Agronomy	Pulses	Foliar application of pulse wonder	INM	59.7
	Jangalpatti					
	Dharmapuri					
	Kuppinayakkanpatti					
3.	VC Puram	Agronomy	Maize	Foliar application of Maize Maxim	INM	76.3
	Dharmapuri					
	Rajendra Nagar					
	Anna Nagar					
	Govinda Nagar					
4.	Kottur	Agronomy	Paddy	CORH 3 with SRI	ICM	68.4
	Seelayampattti					
	Chinnamanur					
_	Markayankottai		~			
5.	Alagapuri	Agronomy	Greengram	Cultivation of CO Gg 7	ICM	38.2
-	Kuppinayakkanpatti	**				(7 0)
6.	Hanumanthanpatti	Horticulture	Banana	Foliar application of IIHR Banana	INM	67.8
	C.Puthupatti			Special		
	Narayanathevanpatti					
	Cumbum					
7	Gudalur	Disco Disco di su	Contract	A	IDM (50
7.	Rasingapuram	Plant Protection	Cotton	Application Neem Oil 3% + Fish Oil Dasin Seen 25 cm/lt + Valley Sticky	IPM	58
	Silamarathupatti			Trop 5/ba for Whitefly management		
	Bathrinakalinuram			Trap 5/ha for whiteny management		
	Dombucherry					
8	Rasingapuram	Plant Protection	Cotton	Spraving of Acepate 2 gm/lt + Fish	IPM	62%
0.	Silamalai	r failt r fotectioll	Cotton	Oil Resin Soan 25 gm/lt for	11 101	0270
	Silamarathupatti			Mealybug management		
	Bathrirakalinuram			mearyoug management		
	Dombucherry					

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

Impact of Integration of Agriculture, Horticulture and Animal Husbandry for Successful and Profitable Farming

Background:

Theni district is potential area for Agricultural, Horticultural production with the cultivation of Agricultural and Horticultural crops together with cattle and goat growing. These production meet the local demand and marketing to other states in India and abroad also. The source of irrigation mainly rely upon Periyar Vaigai River project and other 18 canals from the main source to different parts of Theni district. Ponds are refilled yearly twice through this canal systems and the surrounding open wells are get recharged and it is highly helpful for irrigating Garden land cultivation. The places where garden land cultivation is not practiced, dryland cultivation is adopted. Every farmer has either open or borewell system of irrigation in their own land to irrigate the crop. Intensive Agricultural Practices:

More than fifty percent of the farming communities in Theni district are resource rich farmer and the remaining and moderate and resource poor. The purchasing power is more among resource rich farmer and they are very much adoptive to high technologies in Agriculture. This habit oriented them to adopt new chemicals and indiscriminate application of pesticides and fertilizers to the crop was practiced to increase the yield. The gross return may increase to satisfy the farmer, while calculating the production and productivity. The real net return may not be acceptable in increasing the per capita income. The farmer were not able to realize the profit equivalent to a normal business by an ordinary man. The ultimate reason is the use of inorganic chemical inputs which is more than 60% than organic inputs and the income cannot be realized at the end Agriculture. Though the farmers have enormous local resources with them, they were not utilizing it in a proper way with a minimum risk and labour source. The farmer need awareness through trainings and demonstrations. Farmers do not calculate the cost of production invested in his farm. They completely blind off the cost of production and cost benefit ratio. Their main focus is to achieve more production and high market price.

Success Story of the Innovative Farmer:

The farmer **Mr.D.Saminathan** is hailing from T.Sindalacherry village in Uthamapalayam Taluk of Theni district in Tamilnadu. He has developed 10 acres of land holding with assured supply of irrigation through drip system. The land was initially cultivated with Cotton, Beetroot, Sorghum, Maize, Redgram and Groundnut. He used heavy dose of fertilizer and pesticides and other inorganic inputs to the cultivable crop to increase the production and unit area productivity. This land was developed by his father initially and the response in yield was not sufficient enough to his expectation. On continuous cultivation his father could not take up the lead because of drastic reduction in production and increased cost of cultivation. At one particular point the land was morgaged to Bank for further cultivation operation. He could not realize the profit margin. There were no increase in production while doing the same agricultural practice. The subsequent cultivation pulled him down economically and under debenture. The land productivity was slowly decreased, the loan was not repaid, the debenture become more and it was resulted in likely to sell the land repaying the debenture in the Bank.

Intervention of KVK at particular point of time made him to aware and adopt technologies of Integration of Agriculture, Horticulture and Animal Husbandry. He started practicing the Integration Process and suitable technologies to adopt the Integration with available resource potential. This approach lighten him, convinced his father to avoid the old inorganic agricultural practices and to adopt morden methods, techniques and strategies to save unnecessary investment in land. Together the change ensured several direct and indirect benefits. Prominent among the investment are cattle rearing with cow, Vermicompost unit, goat rearing, production of enriched farm yard manure, cultivation of vegetables, Banana and Guava which are promising in increase the farm income.

Input cost before and after Integrated Farming System:

Input cost before Integration of Different Farming Practices:





Intervention process:

The farmer has participated in the trainings and demonstration on organic farming, cattle and goat farming, fodder cultivation, compost making, Enriched FYM preparation, FLD on Groundnut, Greengram and regular extension activities of the KVK. He has been guided and motivated to takeup integrated farming system model in his farm for reducing the dependency on external inputs and increasing net profit from his farm. So the farmer has started dairy and goat unit in his farm and them expanded cultivation activities for increasing the opportunity to effectively recycle the waste and utilize it in the farm for soil fertility maintenance.

Different Components Adopted in the Farm: (Cost of Establishment, Gross Income, Net Income)

Integration of Different farming sector:

The farmer have decided to use only organic manures in his farm and accordingly he produced manures and cultivating Agricultural and Horticultural

S.No	Components	Gross Income	Cost of Establishment	Net Income
		Rs.	Rs.	Rs.
1.	Cow/Milk yield (6 Cows)	1,50,000	1,00,000	50,000
2.	Goat/Meat (40 Goat)	1,50,000	20,000	1,30,000
3.	FYM/Cost of Labour	1,10,000	10,000	1,00,000
4.	Vermicompost/ Cost of Labour (10 x 3 ft x 10 unit)	70,000	50,000	20,000
5.	Banana (1 ac)	5,00,000	2,00,000	3,00,000
6.	Chillie (1 ac)	1,50,000	1,00,000	50,000
7.	Brinjal (1 ac)	1,30,000	70,000	60,000
8.	Lab Lab (1 ac)	75,000	35,000	40,000
9.	Guava (1 ac)	45,000	30,000	15,000
10.	Mango (150 tree)	1,00,000	90,000	10,000
	Total	14,80,000	7,05,000	7,75,000

Cattle/Cow growing:

crons

Initially the farmer purchased 6 Cows @ Rs. 1,00,000 from external agencies. He has raised 0.25 ac of fodder including Napier Cumbu hybrid, Co Fodder Sorghum, Sasbania, Castor, Subabul and other essential fodder. Minimum of cattle feed with mineral mixture was purchased from market. Medical expenses were added in the production cost. Milk was sold to the local traders. Cow dung was collected separately and utilized for preparation of enriched Farm Yard Manure. Cow Urine is collected separately and used in the preparation of biopesticide. These biopesticides are act as feeding deterrent and nutrient supply through foliar spray to the agricultural and horticultural crops. A portion of cow dung and urine is used for raising vermicompost pit together with farm waste. The farmer is still want to establish and expand the units with morden systems such as increasing the number of cows, milking machine, feed milk, fodder cutter, morden cattle shed with water showers, etc. He revealed that around hundred percent of the fertilizers requirement is full filled by applying the enriched Farm Yard Manure, Compost and vermicompost. Annually the farmer gain net profit of Rs. 50,000 by rearing cow.

Goat production:

The farmer is very much guarantee and confident on goat production because of its assured income with less input cost because of input availability in the farm itself. Sometimes he feel that goat production may be an equivalent sourcealternate for cultivation even the cultivation fails. Initially he purchased 40 young goats for Rs. 20,000 and in third year, it have an assured income at an average of Rs. 1,30,000 per year. The goat is purchased for meat purpose by the traders, particularly the matured males and females. The female young ones are not sold because it is retained for re production purpose. The goat manure is a nutrient rich manure which contain all nutrients. Irrespective of the demand in the market, the farmer utilizinggoat manure for his own farm purpose. The farmer still want to expand the goat farm upto 100 aiming with an annual turn over of Rs. 4 Lakhs per year.

Enriched Farm Yard Manure:

The available cow dung, urine, goat manure farm wastes are used to prepare enriched Farm Yard Manure. Alternate layers of farm waste and FYM under Bangalore method (Partially above and partially below the ground level) helps in preparing FYM in 6 months. The farmer get Rs. One lakh worth of manure without transport charge every year. Similarly the goat manures also dried and made into powder form and applied to the crop field.

Vermicompost:

10 x 3 feet vermicompost pit 5 nos is available in the farm. The pit is constructed out of brick and cement, where in the waste, crops refuses are placed and utilized as vermifeed. Mostly banana trashes, vegetable leaves and sticks are chopped and placed in the pit and applied with cow dung water. The process is harvested every 60^{th} day with an annual production of 2,350 kg from all the pit to an estimate cost of Rs. 5/kg. Approximately 14,000 kg of vermicompost is available from 5 pits with an average of 28,000 kg/pit and 467 kg/pit is harvested in 60 days. All the products are utilized by the farmers in his own farm irrespective of the external demand. Further the farmer want to increase another 5 pits and willing to do commercial marketing outside to other farmers.

Irrigation Management:

To reduce the labour cost and saving water, drip system of irrigation is adopted. Timely irrigation is ensured in this method. Quantity of irrigation water is reduced enormously and the same is utilized for other crop purposes.

Banana Cultivation:

Banana is cultivated in four acres. Tissue culture banana is planted. First time planted G9 banana is allowed continuously for three times depending upon the availability of water and soil condition. Totally 4200 banana is planted in 4 acres. First harvest has been completed with a net profit of Rs. 1,55,000 with an initial investment cost of Rs. 4,50,000 including drip installation. Banana is cultivated without application of fertilizer. Need based pesticides spray alone is being taken up in a warrented situation. The farmer permit the subsequent 2^{nd} and 3^{rd} crop because it needs no capital/initial investment which is highly profitable for him.

Vegetable Cultivation:

Chillie, Brinjal, Lab Lab, Tomato also planted in the farm and it is highly remunerative at an optimum price. Nearly 100 percent income is assured in every vegetable cultivation under drip system of irrigation. Chillie has yielded with the net income of Rs. 1 Lakh with the cost of cultivation of Rs. 50,000, Brinjal with Rs. 70,000 net profit with Rs. 60,000 cost of cultivation and Lab Lab with Rs. 35,000 net profit with Rs. 40,000 cost of cultivation. The profit depends upon the flexuation of price in the market and never failed ever before while doing vegetable cultivation.

Horticultural Farming:

Mango tree 150 is raised randomly over 10 acres of land. It yield 100 kg/tree on an average. The total yield comes 15,000 kg @ Rs. 6/kg and the income shoot up to Rs. 90,000/year. The cost of cultivation comes Rs. 10,000 for filed activities viz., Ploughing, Pruning, Spraying, Plugging, etc. These trees has no adoption with drip irrigation regularly. It is outrightly dry and provided with loan micro outlets at the time of other crop cultivation in the particular field. No special operation and expenses and made for growing and protecting Mango trees.

Farmers visit to farm:

Many farmers from the district and other areas are visiting periodically to the farm. Those farmers were also adopted this technology because of its viability viz reduced cost of cultivation and maximum output. Particularly the farmers having 5-10 acres of land have lured by this farm, visit, gathering knowledge and they established accordingly. This method have lighten many farmers those who are in the vested interest of doing cultivation practices and willing to drop agriculture. Many farmers have exclaimed about the development because of its less investment budget with outstanding income potential.

Economic Gains: (Cost Benefit):

The farmer is able to realize a net profit of Rs. 7,75,000/year from this Integrated enterprise. He solely depends 90% of the input in his farm and another 10% of the inputs such as seeds, pesticides, labour from outside. The farmer revealed that his father spent Rs. 5 Lakhs and realized Gross profit of Rs. 3.5 Lakhs with the loss of Rs. 1.5 Lakhs/year. Likewise, repetitively four years suffered without any profit and finally in the state of debenture. Now the farmer realized the changes made in the farm with assured income. He received gross income of Rs. 14,80,000 with Rs. 7,05,000 cost of cultivation and calculating the cost benefit ratio 1:2.095.

Employment generation:

The farmer and his brother are maintaining the whole farm with two women labour. They are permanently working in cattle, goat shed and vermicompost unit. Other labourers are temporary depending upon the work available in the farm. The farmer and his brother also working together in drip maintenance, cattle and goat management, other field management from time to time based on need.

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
Dept. of Agriculture	Joint problem identification, Conducting Training programmes and Demonstration. Received
	assistance for getting seeds/critical inputs for FLD Programme. Participation in department
	training programme as resource person.
Soil Testing lab, Theni	Jointly organizing awareness campaigns
Dept. of Horticulture	Received assistance for conducting Training Programmes. Supply of quality seedlings to
	farmers.
Dept. of Animal Husbandry	Participation in animal health campaign
Horticultural College and Research Institute, Periyakulam	Received latest technologies for popularization to farmers, guidance to students for their Rural
	Horticultural work experience programme
Agricultural College and Research Institute, Madurai	Guidance to students for their Rural Agricultural Work Experience programme
Nehru Yuva Kendra, Theni	Creating awareness among farmers about scientific farming through field level NYK
	volunteers
Dept. of Sericulture	Arranging Mulberry cuttings, eggs to farmers
NGO Network	NGO Personnel were trained.
	Creating joint awareness about safeguarding environment through Campaigns
SPIC	Jointly organizing trainings
All India Radio, Madurai	Broadcasting of Talk/Interview of KVK staff and farmers
News Papers	Coverage of KVK activities
TAPCO Agro Farm, Srivilliputhur	Medicinal and aromatic plants oil marketing
DRDA	Joint implementation of Bio-gas training and plant construction
Tamil Nadu Agricultural University	Getting seeds of improved varieties for FLD programme
NABARD	Implementation of VVV club programme
Aavin, Theni	Maintaining Artificial Insemination centre
Agricultural Engineering department	Jointly organizing trainings
District Social Welfare Office, Theni	Getting assistance for rural women and rural youths
BDO Office, Chinnamanur	Grading of SHGs and Bio-gas programme implementation
Women Development Corporation, Theni	Received assistance for conducting training programmes for SHGs and NGOs
THADCO	Received financial assistance for SHG members as individual loans
FTC, TANUVAS, Theni	Jointly organizing training programmes
Joint Action for Sustainable Livelihood (JASuL) supported by	Training extension workers on PRA techniques.
SIEMENPUU Foundation, Finland.	-
Vazhnthu Kattuvom Thittam, Theni	Jointly organizing trainings

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Training for Rural Youth	16.09.2010 to 20.09.2010	SIAAP	3,150
Trainng on water management through sprinkler and drip	29.11.2010 to 04.12.2010	Department of Agrl. Engineeering	1,500
irrigation water saving devices			
Training on selection operation and maintenance of plant	03.01.2011 to 09.01.2011	Department of Agrl. Engineeering	16,000
protection equipments			
Technologies to increase the Production of Coconut, Mango,	06.01.2011 to 10.01.2011	ATMA, Theni	1,00,000
Cashew and Sugarcane Crops, Value Addition of Products			
and its Marketing in Theni District			
Training program on landless and women livelihood	20.01.2011 to 21.01.2011	NABARD	16,100
development			
Training on package of agricultural machinery for paddy	19.01.2011 to 25.01.2011	Department of Agrl. Engineeering	20,800
cultivation			
Seminar on Augmentation of Pulses Production in Theni	April 2010	ATMA, Theni	18,000
District			
Induction Training for Special Group Facilitators	May 2010	Vazhnthu Kattuvom Thittam, Theni	2,00,000
Biogas users Camp	09.02.2011	TNAU	1,600
Farm School on Maize Cultivation	17.01.2011	ATMA, Kadamalaikundu	68,680
			4,45,830

12.C. Details of linkage with ATMA

Is ATMA operational in your District : Yes If yes since when: 2008-09

If Yes whether SREP prepared: Yes Year of preparation of SREP: 2009

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

a) Participated in the PRA Agro Eco System Core Team member

b) Suggested List of programmes of Front Line Demonstration

Coordination activities between KVK and ATMA during 2010-11

S. No.	Programme		Particulars		No. of programme attended by KVK st	rs aff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings							
02	Research projects							
03	Training programmes							
04	Demonstrations							
05	Extension Programmes							
	Kisan Mela							
	Technology Week							
	Exposure visit							
	Exhibition							
	Soli health camps							
	Animai Health Campaigns	1	tation of Dulass				1	
	Seminar	1. Augmen	tation of Pulses	Thoni			1	
		district	on technologies in i	mem				
		2 Technolo	ogies to increase the					
		Producti	on of Coconut Man	, IgO				
		Cashew	and Sugarcane Cror	DS.			1	
		Value A	ddition of Products	and				
		its Marke	eting in Theni Distr	ict				
06	Publications							
	Video Films							
	Books							
	Extension Literature							
	Pamphlets							
	Others (Pl. specify)							
07	Other Activities (Pl. specify)							
	Watershed approach							
	Integrated Farm							
	Development							
	Agri-preneurs development							
	Farmers Field School	1. Maize	e cultivation Practic	es at			1	
		Durai	samipuram					
		2. Maize	e cultivation Practic	es at			1	
	T-4-1	Elayıı	rampannai				1	
12 D	<u> </u>	l nog implom	onted under Net	ional	Uanticultural Missio	n NII	3	
12.D.	Give details of programme	nes impien	lented under Na	lona	I HOFTICULTURAL WISSIO		L monditure during the	Constraints if any
No.	S. Programme	Nature	e of linkage	F	unds received if any Rs.	rej	porting period in Rs.	Constraints II any
10 5								
12.E.	Nature of linkage with	National E	isheries Develop	omen	t Board NIL	F		D
S. No.	Programme	Nature of	linkage	Fun	ds received if any Rs.	Exp	enditure during the orting period in Rs.	Kemarks
			-					
12.F.	Details of linkage with	RKVY N	IL					
S. No.	Programme	Nature of	linkage	Fun	ds received if any Rs.	Exp repo	enditure during the orting period in Rs.	Remarks
	1	1						

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	11	61	56	
August	30	61	52	
September	22	70	43	
October	4	70	36	

November	2	70	24
December	-	-	-
January 2011	5	70	28
February	-	-	-
March	-	-	-
Total	74	402	239

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

		Year of Area		Area Details of production			Amoun		
Sl. No.	Demo Unit	establishment	(ha)	Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks
1	Cashew	2000	0.4	VRI 2	Nuts	3.89 q	8450	15949	-
2	Banana	2010	0.4	Grand Naine	Bunch	1800	108500	252000	-
						Nos			
3	Sorghum	2010	1.0	Co S 28	Grains	34 q	15600	34000	-
4	Cumbu	2010	0.4	Co Cu 9	Grains	10.2 q	5400	11730	-

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

Nomo			а)	Deta	Details of production			Amount (Rs.)	
of the crop	Date of sowing	Date of harvest	Are (ha	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Cereals									
Corabum	20 10 2010	18 02 2011	0.4	C . 5 29	Seeds	12 q	6860	24000	
Sorghuin	20.10.2010	18.02.2011	0.4	C0 S 28	Grains	4.2 q	0800	4200	
Cumbu	18 10 2010	06.02.2011	0.4	Co Cu O	Seeds	9 q	5600	18000	
Cullibu	18.10.2010	00.02.2011	0.4	C0 Cu 9	Grains	4.8 q	5000	5520	
Maize	11.09.2010	18.01.2011	1.0	Big Boss	Grains	60 q	32200	60000	
Pulses									
Greengram	25.11.2010	09.02.2011	0.8	CO 7	Seeds	8 q	10250	32000	
Blackgram	01.12.2010	06.03.2011	0.8	VBN 3	Seeds	8 q	20400	54000	
Oilseeds									
Croundput	25.02.2010	16.06.2010	0.4	VDI 2	Seeds	5 q	6500	12500	
Groundhut	06.05.2010	20.08.2010	0.8	VRI 2	Seeds	10 q	12800	25000	
Fibers									
Spices & Plantation	crops								
	02.05.2010	18.08.2010				500 Nos			
Cashan	18.10.2010	02.02.2011	0.01	VDL2	Casellines	2000	6600	19000	
Cashew			0.01	VKI 5	Seedings	Nos	0000	18000	
	15.11.2010	10.03.2011				500 Nos			
Cashew	04.11.2010	April-May 10	1.0	VRI 2	Nuts	7.6 q	14200	31160	
Coconut	-	-	2.0	TxD	Nuts	24000	32000	96000	
Et a d'a a la ana						INOS			
Floriculture									
Emite									
Fruits				NT - 1					
Mango	1998	April-May 2010	0.4	Bangalore	Fruits	14 q	4300	11200	
Vegetables									
Others (specify)									

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

SI	Name of the		Amou		
No.	Product	Qty	Cost of inputs	Gross income	Remarks
1	Vermicompost	7000 kg		35,000	
2	Earthworm	159 kg		38,850	

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

S1.	Name	Det	tails of production		Amou		
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1	Dairy	1995-96	Milk	5760	43500	74880	
2	Goatry	1995-96	Breeding	3	1400	3000	

13.E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2010	240	44	
May 2010	124	16	
June 2010	68	5	
July 2010	48	3	
Aug. 2010	49	9	
Sept. 2010	55	4	
Oct. 2010	20	2	
Nov. 2010	52	4	
Dec. 2010	164	9	
Jan. 2011	485	23	
Feb. 2011	265	7	
March 2011	0	0	
Total	1570	126	

13.F. Database management

S. No	Database target	Database created
01	Resource inventory of the District	4 years details collected for compilation
Data required sin	nce inception of the KVK	
1.	Farmers Database	4 years details compiled
2.	Technology Inventory for the District	
3.	Database for Technologies assessed and Refined	
4.	Frontline Demonstrations Database	
5.	Training Database	
6.	Database of Extension Programmes	
7.	Seeds and Planting Material Database	
8.	KVK Inventory of Assets	
9.	KVK Accounts Database	

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

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

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	Tamil Mercantile Bank	Odaipatti	077	SB	2949	-	TMBL0000077
With KVK	Tamil Mercantile Bank	Odaipatti	077	SB	3006	-	TMBL0000077

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

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

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

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Rec	urring Contingencies			
1	Pay & Allowances	78.00	69.52162	75.37162
2	Traveling allowances	1.25	1.25	1.38805
3	Contingencies			
Α	Stationary and office expenses	2.50	2.50	2.51563
В	POL and R & M of vehicles	2.30	2.30	2.34673
С	Vocational Training (Meals)	1.00	1.00	1.00990
D	Vocational Training (Training Materials)	0.70	0.70	0.70130
Ε	FLD (Other than oilseeds and pulses)	1.95	1.95	1.95150
F	OFT	0.90	0.90	0.90980
G	Training of Extension Functionaries	0.25	0.25	0.25030
Н	Maintenance of Building	0.60	0.60	0.60865
Ι	Extension Activities	0.50	0.50	0.50035
J	Farmers field School	0.25	0.25	0.25200
K	Library	0.05	0.05	0.10798
	TOTAL (A)	90.25	81.7762	87.91381
B. Non	-Recurring Contingencies			
1	Generator	1.00	1.00	1.00
2	Tractor with Implements	5.00	5.00	5.16
3	Power Tiller	1.50	1.50	1.52750
4	Digital Camera	0.25	0.25	0.2500
5	Rennovation and Repair	5.00	5.00	5.16039
6	Library	0.10	0.10	0.10200
7	EPABX	0.50	0.50	0.50220
TOTA	L (B)	13.35	13.35	13.70209
C. REV	OLVING FUND	-	-	5.17365
GRAN	D TOTAL (A+B+C)	103.60	95.12162	106.78955

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	0.62605	0.40250	0.23805	0.79050
April 2009 to March 2010	0.79050	3.95814	1.80720	2.94144
April 2010 to March 2011	2.94144	3.91404	5.17165	1.68383

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.P.Marimuthu,	Programme Coordinator	Inauguration Programme on Technological Products development by DG, ICAR, New Delhi	IIHR, Bangalore	29.04.2010
Dr.P.Marimuthu,	Programme Coordinator	Process for preparation of crop specific foliar micronutrient formulation for Banana	IIHR, Bangalore	12.05.2010
Mr.M.Lord Savariraj	SMS (Plant Protection)	Awareness meeting on the Use of genetically modified crops for extension functionaries	Ac &RI Madurai	12.08.10
Mr.M.Lord Savariraj	SMS (Plant Protection)	National Consultation Workshop for the Control of Papaya Mealy Bug and Strategy for Development and Conservation of the Parasitoids of Papaya Mealybugs	NBAII, Hebbal, Bangalore	30.10.2010
Dr.P.Marimuthu	Programme Coordinator	National Seminar on Extension Management Reform - Initiatives and Impacts	TNAU, Coimbatore	11.12.2010
Mrs.K.Veerasikkammal	SMS (Agronomy)	Training on Strengthening for gender perspective for Research and Extension	TANUVAS, Chennai	24.01.2010 to 25.01.2011
Mr.M.Lord Savariraj	SMS (Plant Protection)	Integrated Pest and Disease Management Strategies for high value crops	DEE, TNAU, Coimbatore	24.03.2011 to 25.03.2011
Mrs.S.Karpagavalli	SMS (Home Science)	Recent Trends in Post Harvest Technology	IICPT, Thanjavur	23.03.2011 to 25.03.2011
Mr.N.Raja	Farm Manager	Protected Cultivation of Horiculture Crops	DEE, TNAU, Coimbatore	28.03.2011 to 29.03.2011
Mr.S.Suruli Andavar	Programme Assistant (Computer)	Database Management, Web Content and Web Hosting	DEE, TNAU, Coimbatore	29.03.2011 to 31.03.2011
Mrs.K.Veerasiakkammal	SMS (Agronomy)	Weather Based Agro Advisory Services	DEE, TNAU, Coimbatore	30.03.2011 to 31.03.2011

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

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

Staff Participated in review Meetings

- Dr.P.Marimuthu, Programme Coordinator and Mr.M.Lord Savariraj has participated in the Pre Action Plan 2010-11 of KVK's at TNAU, Coimbatore from 15.04.2010 to 16.04.2010.
- Dr.P.Marimuthu, Programme Coordinator has participated in the Action Plan Review Meeting of KVK's of Tamilnadu and Puducherry at Zonal Project Directorate, Bangalore during 03.05.2010 to 04.05.2010.
- Dr.P.Marimuthu, Programme Coordinator has participated in the Regional KVK Interface Meeting during 22nd ICAR Regional Committee meeting at IVRI Regional Station, Bangalore on 15.05.2010.
- Mr.M.Lord Savariraj, SMS (Plant Protection) has attended Annual Review and Action Plan meeting on Bt Cotton AC & RI, Madurai dated on 214.06.2010 and 15.06.2010.
- Dr.P.Marimuthu, Programme Coordinator Coordinator has participated in the Annual Review Workshop of KVKs Zone VIII at KVK, UAS, Dharwad from 05.10.10 to 08.10.10.
- Dr.P.Marimuthu, Programme Coordinator Coordinator has participated in the "5th National Conference on KVKs 2010" at Maharana Pratap University
 of Agriculture and Technology, Udaipur during 22-24 December 2010.
- Dr.P.Marimuthu, Programme Coordinator has participated in the Pre Annual Action Plan 2011-12 at DEE office, TNAU, Coimbatore on 08.02.2011.
- Dr.P.Marimuthu, Programme Coordinator has participated in Annual Action Plan 2011-12 of KVK of Tamilnadu and Pondicherry at DEE office, TNAU, Coimbatore on 07.03.2011 to 10.03.2011.

Staff deputed for Training Programme

- Dr.P.Marimuthu, Programme Coordinator has participated in the Inauguration Programme on Technological Products development by DG, ICAR, New Delhi at IIHR, Bangalore on 29.04.2010.
- Dr.P.Marimuthu, Programme Coordinator has participated in the Training on process for preparation of crop specific foliar micronutrient formulation for Banana developed by IIHR, Bangalore on 12.05.2010.
- Mr.Lord Savariraj, SMS, Plant Protection has attended Awareness meeting on the Use of genetically modified crops for extension functionaries at Ac &RI Madurai on 12.08.10.
- Mr.M.Lord Savariraj, SMS (Plant Protection) has participated in the National Consultation Workshop at NBAII, Hebbal, Bangalore (For the Control of Papaya Mealy Bug) on 30.10.2010 on Strategy for Development and Conservation of the Parasitoids of Papaya Mealybugs.
- Dr.P.Marimuthu, Programme Coordinator Coordinator has participated in the "National Seminar on Extension Management Reform Initiatives and Impacts" organised by Society of Extension Education at TNAU, Coimbatore on December 11.12.2010.
- Mrs.K.Veerasikkammal, SMS (Agronomy) has participated in the "Training on Strengthening for gender perspective for Research and Extension at TANUVAS, Chennai on 24-25.01.2011.
- Mr.M.Lord Savariraj, SMS (Plant Protection) has attended the training programme on "Integrated Pest and Disease Management Strategies for high value crops" at DEE, TNAU, Coimbatore on 24.03.2011 to 25.03.2011.
- Mrs.S.Karpagavalli, SMS (Home Science) has attended the training programme on "Recent Trends in Post Harvest Technology" at IICPT, Thanjavur, on 23.03.2011 to 25.03.2011.
- Mr.N.Raja, Farm Manager has attended the training programme on "Protected Cultivation of Horiculture Crops" at DEE, TNAU, Coimbatore on 28.03.2011 to 29.03.2011.
- Mr.S.Suruli Andavar, Programme Assistant(Computer) has attended the training programme on "Database Management, Web Content and Web Hosting" at DEE, TNAU, Coimbatore on 29.03.2011 to 31.03.2011.

 Mrs.K.Veerasiakkammal,SMS (Agronomy) has attended the training programme on "Weather Based Agro Advisory Services" at DEE, TNAU, Coimbatore on 30.03.2011 to 31.03.2011.

Linkage with line Department and Banks

- Dr.P.Marimuthu, Programme Coordinator has participated in the ATMA Block Level Technical Team Meeting at ADA Office at 07.05.2010.
- Mr.M.Lord Savariraj, SMS (Plant Protection) has attended ATMA Budget Preparation meeting held at JDA office, Madurai dated on 15.07.2010 to 16.07.2010.
- Mr.Prabhakaran, Project Officer, Mahalir Thittam, Theni visited on 28.08.10 to interact with Disabled people on production of Candles, Chalkpiece and Agarpathi.
- We have submitted a Proposal on "Wholistic Approach for Revival and Development of Coconut Industry in Theni District of Tamil Nadu" to NABARD under Rural Innovation Fund Scheme.
- Dr.P.Marimuthu, Programme Coordinator Coordinator has participated in the Monthly Zonal Workshop organised at Horticultural College and Research Institute, Periyakulam on 16.09.2010.
- Dr.P.Marimuthu, Programme Coordinator Coordinator has participated in the ATMA FFS Programme Organised by ADA, Chinnamanur on 26.10.2010, Karunkattankulam.

Participated in NGO and Network Meetings

- Dr.P.Marimuthu, Programme Coordinator Coordinator has participated in the preparatory meeting for holding a State Level Conference on Climate Change organized by Citizen Global Platform at Denobili, Madurai on 28.08.10.
- Dr.P.Marimuthu, Programme Coordinator Coordinator has conducted a study along Priyar and Vaigai rivers to assess the river pollution on 18.09.2010.
- Dr.P.Marimuthu, Programme Coordinator Coordinator has participated in the workshop on Knowledge sharing and Capacity building on Mobile based Life Long learning organised by Vidiyal NGO, Rasingapuram and NABARD, Theni on 17.09.2010.
- Dr.P.Marimuthu, Programme Coordinator Coordinator has participated in the Discussional Meeting with NGOs at Gandhigram Rural University organised by People's Education Programme, Directorate of Distance Education on 22.11.2010.
- Dr.P.Marimuthu, Programme Coordinator Coordinator has participated in the National Workshop on search of Alternative Paradigm in the Context of Climate dissortion organised by Citizens Global Platform at GB Plant Institute of Himalayan Environment and Development, Almora during 29-30, December 2010.
- Dr.P.Marimuthu, Programme Coordinator has participated in the "Regional Conference on the impact of Climate Change on Sustainable development and means of mitigation" organized by NGO Network of KVK, Dindugal on 22.01.2011.

Linkage with TNAU Colleges/ICAR Institute/Other Organisation

- Dr.P.Marimuthu, Programme Coordinator has participated in the 76th Scientific workers Conference at TNAU, Coimbatore on 25.05.2010.
- Mr.V.Rajamanickam, SMS(Horticulture), has attended the "Farmers Day" celebration at TNAU, Coimbatore dated on 09.06.2010 and 10.06.2010.
- We have collaborated with Department of Millets, TNAU, Coimbatore for Popularisation of Cumbu variety CoCu 9 through FLD Programme among 10 Moorthinayakkanpatti farmers and distributed seeds on 27.08.2010.

Other KVK Activities

- Mr.Tha.Pandian, State Secretary, CPI has visited our KVK on 25.06.2010 and seen the activities of KVK.
- Dr.S.Prabhukumar, Zonal Project Director, ICAR, Bangalore has visited KVK on 29.07.2010 and visited trial on High Density Planting in Banana and given orientation to 9 IV B.Sc.,(Horti) students on Precision Farming, Nutrigation and Drip Irrigation.
- The Website (www.cendectkvk.org) was launched on 18.08.10 by Dr.s.Prabu Kumar,Zonal Project Director, Bangalore.
- Ms.Sarah Mellows and Mr. Michael Reed from East London University, UK visited for one month placement in CENDECT and studied various KVK activities.
- We have started production of Banana Special and Sorghum Co S 28 Seed production under Revolving Fund Scheme in our KVK.
- Dr.P.Marimuthu, Programme Coordinator Coordinator has participated in the Discussional Meeting organised by Cumbum Valley Grapes growers Association at KK Patti on 03.11.2010 and 20.11.2010.
- We have distributed COHM(5) Maize to 50 farmers through FLD Programme of Maize Research Station, TNAU, Vagarai on 13.12.2010.
- Dr.Kalaiselvan, DEE, TNAU has visited our KVK on 24.03.2011 and seen various KVK assests and demonstration units and OFT, FLD fields of KVK.

SUMMARY FOR 2010-11

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
	Cotton	Leaf Reddening Management in Cotton	5
Integrated Nutrient Management			
Varietal Evaluation	French Bean	New French Bean Variety – Arka Anoop	5
Integrated Pest Management			
Integrated Crop Management	Banana	Suitable Planting method in Banana for higher profitability	3
	Red gram	Assessment of Suitable Planting Method inRedgram	4
Integrated Disease Management	Grapes	Management of Downy Mildew in Grapes	5
	Betelvine	Management of Phytopthora Wilt in Betelvine	5
	Paddy	Management of Brown Leaf Spot in Paddy	5
Small Scale Income Generation Enterprises			
Weed Management			
Resource Conservation Technology			
Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Value addition			
Drudgery Reduction	Paddy	Assessment of Performance and suitability of various	5
		weeders in SRI Paddy Cultivation	
Storage Technique			
storage reeningue			
Others (Pl. specify)			
(speen))			
Total	<u> </u>		37

Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Disease Management	Poultry	Assessment of oral pellet vaccination in Desi Chicken	50
Evaluation of Breeds			
Feed and Fodder management			
Nutrition Management	Cow	Assessment of regular mineral mixture	10
Production and Management			
Others (Pl. specify)			
Total			60

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

Summary of technologies 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

Crop Th	Thematic	Name of the	No. of	No. of	Area	Area Yield (q/ha)		%	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
Сгор	Area	demonstrated	KVKs	Farmers	(ha)	(ha) Demonstration	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Total																

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

** BCR= GROSS RETURN/GROSS COST

Other crops

	771	Name of the	N	N		Yield ((q/ha)	%	Other parameters		*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)				
Crop	area	demonstrate d	NO. OF KVKs	Farmer	Area (ha)	Demo ns ration	Che ck	e in yield	Demonstr ation	Che ck	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Retur n	Net Retu rn	** BC R
Cereals																		
Padd y	Integrated Pest Managem ent	IPM in Paddy and Managemen t of yellow stem borer and Leaf folder in paddy	-	10	2	46.5	43. 2	14.8	Plant height: 102.6 cm, Panicle height: 22.2 cm, % of reduction in Yellow Stem Borer: 93.4%	94.2 cm 19.6 cm 23.8 %	2540 0	54150	28750	2.13	2540 0	4678 5.6	213 85. 6	1.8 4
Rice	Integrated Crop Managem ent	CO RH 3 Hybrid with SRI with managemen t of Sheath blight in Paddy	-	12	5	85.3	66. 5	28.01	Plant height: 110.6 cm, Panicle height: 26.2 cm, 1000 grain weight: 28.6 gm	94.2 cm 22.4 cm 15.5 gm	3500 0	95953. 8	60953. 8	2.74	2500 0	6158 6.3	365 86. 3	2.4 6
Paddy	Drudgery Reduction technolog ies	Mechanized paddy farming	-	10	5	48.5	43. 1	17.4	Plant height: 105.8 cm, Panicle height: 24.7 cm, % of efficiency : 62.8%, Area coverage: 0.72 cents/acre /hr, Time saving: 7 hrs, Labour saving: 7	94.3 cm 21.7 cm 28.9 % 10 farm wo men s/acr e/da y -	2500 0	54799. 8	29799. 8	2.19	2500 0	2167 7.3	466 77. 3	1.8 7
Sorghum	Varietal/ Hybrid Introducti on	Popularizati on of Co S 28	-	12	5	21.76	18. 04	21.6	Plant height: 170 cm Ear head weight: 35.2 gm No. of filled grain: 1560	165 cm 30. 3 gm 147 1	1672 1	42520	25799	2.54	1650 0	3850 0	220 00	2.3 1
Maize	Populariz ation of Integrated Nutrient Managem ent	Popularizati on of ICM with TNAU Maize Maxim	-	10	4	68.5	43. 6	66.9	Plant height: 195 cm No. of leaves/pl ant: 12	187 cm 10	3543 5	80080	44645	2.25	2563 8	4796 0	223 22	1.8

									100 seed weight: 119.6	110 .7								
Millets																		
Oilseeds																		
Pulses	Integrated	Introduction							No. of									
Greengra m	Meed Weed Manageme nt, Varietal Introductio n	of mini mobile sprinkler	-	12	5	9.12	7.58	24.4	No. of pods/plant : 68 No. of seeds/pod : 8 Test weight: 6.3 gm Yield: 912 kg/ha	57 5 4.2 gm 758 Kg/ ha	2750 00	86240 0	58700 0	3.13	2475 15	7376 88	490 173	2.9 8
Greengra m	Integrated Crop Managem ent	Introduction of improved variety Co(Gg)-7 with seed rate of 25 Kg/ha	-	12	5	9.61	7.58	24.4	No. of pods/plant : 73 No. of seeds/pod : 8 Test weight: 6.5 gm Yield: 961 kg/ha	57 5 4.2 gm 758 Kg/ ha	8741	23173	14438	2.6	7631	1751 9	988 8	2.2 9
v egetable s																		
French Beans	Varietal introducti on	Popularizati on of Arka Suvidha	-	10	1	75.75	53. 13	15.05	Plant height: 48.3 cm Infloresc ence Length: 26 cm No. of flowers: 120 Fruit weight: 15.8 gm Pod length: 13.3 cm	41. 6 cm 21. 3 cm 96 12. 3 gm 11. 8 cm	1200 0	40300	28300	3.35	1120 0	3540 0	242 00	3.1 6
Brinjal	Populariz ation of Integrated Nutrient Managem ent	INM in Brinjal	-	10	5	227.5	189 .6	36.4	No. of flowers/ plant: 186 No. of fruits/pl ant: 168 Plant height: 75 cm	163 146 60	1860 0	48544	29944	2.60	1625 0	4015 0	239 00	2.4 6
Flowers									75 em	•								
Ornamon																		
tal																		
D. M							[
Fruit	Populariz	ICM in							No. of									
Banana	ation of Integrated Nutrient Managem ent	Banana and IIHR Banana special in nutrient managemen t	-	12	5	1100. 5	922 .1	14.2	No. of hands/b unch: 15 No of fingers/h and: 25 Individu al fruit weight: 300 gm Bunch weight: 48 kg	12 15 192 gm 32. 6 kg	2750 00	86240 0	58700 0	3.13	2475 15	7376 88	490 173	2.9 8
Banana	Populariz ation of Integrated Disease Managem ent	IDM in Banana with Managemen t of Sigatoka Leaf Spot in Banana	-	10	5	936	794	17.88	No. of hands/b unch: 14 No of fingers/h and: 20 Individu al fruit	11 15	2950 00	83600 0	54100 0	2.85	2520 00	6352 00	383 200	2.5 2

									weight: 275 gm % of reductio n in Sigatoka Leaf Spot: 92.8%	210 gm 22. 6 %								
Banana	Populariz ation of Integrated Pest Managem ent	IPM in Banana with Managemen t of Pseudostem weevil	-	10	5	957	802 .3	27.2	No. of hands/b unch: 14 No of fingers/h and: 22 Individu al fruit weight: 286 gm % of reductio n in Pseudost em Weevil: 98.3%	11 15 210 gm 42. 6 %	2980 00	81680 0	51800 0	2.74	2675 00	6418 40	374 340	2.3 9
Banana	Populariz ation of Drudgery reduction technolog ies	Drudgery reduction in Banana Fibre Extraction	-	10	10	0.548 kg/hr	0.3 84k g/hr	133			8464 0	16200 0	77360	1.9	6309 2	1075 12	301 52	1.7 0
Mango	Populariz ation of Integrated Nutrient Managem ent	INM in Mango	-	10	5	153.2	123 .1	24.39	No. of infloresc ence/bra nch: 5 No. of branches /tree: 320 No. of fruits/tre e: 1520 Individu al fruit weight: 350 cm	3 305 115 0 280 gm	2040 0	69356	48956	3.3	1725 0	4312 5	258 75	2.5 0
Spices and condimen ts																		
Commerc																		
ial																		
Sugarcan e	Populariz ation of Integrated Nutrient Managem ent	Popularizati on of ICM with TNAU Sugarcane Booster	-	10	3	1022. 3	856 .2	45.2	Plant height: 285 cm Individual cane weight: 2.6 kg Sugar content: 12.2%	248 cm 1.81 kg 11.1 %	5800 0	13673 0	78730	2.35	5200 0	9416 0	421 60	1.8 1
Cotton	Populariz ation of Integrated Pest Managem ent	Mealy bug Managemen t in Cotton	-	12	5	27.9	19. 21	45.23	Plant height: 80 cm No. of branches: 15 No of squares/br anch: 18 No of bolls: 12 % of reduction in Mealybug : 91.9%	75 cm 11 12 9 23%	2270 0	78120	55420	3.44	2070 0	5378 8	330 88	1.6 2
Medicinal and aromatic																		
E. H																		
Fodder Mixed Fodder	Varietal Introducti on	Population of Mixed Fodder	-							Demonst	ration unde	r Progress			 			
Plantatio n																		
			Î.							1	Î.				1			

Cashew			-	10	5	0.926	1.7 95	61.1	No. of branches /tree: 280 No. of infloresc ence/bra nch: 5 No. of fruits/br anch: 60 No. of infloresc ence/tre e: 85 No. of nuts/infl orescenc e: 14 % of reductio n in Tea Mosquit o bug: 95.6%	210 3 48 73 9 26. 7%	2400 0	64050	40050	2.6	3975 0	2972 0	100 30	1.3 3
ribre																		
Fruits and Vegetabl es	Processin g and Value addition	Introduction of vegetable preservator (CRIDA Model)	-	10	-	72	30	2.20			3600	4800	1200	1.33	1000	1800	800	1.8

* 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 % change in major Economics of check Name of the technology demonstrated Major parameters Other parameter *Economics of demonstration (Rs.) Thematic area No. of Farmer No. of No.of parameter (Rs. Category KVKs units Demons Gross Demons Gross Cost Gross Gross Cost Net Net Check Check BCR BCR ration ration Return Return Return Return Dairy Poultry Rabbitry Pigerry Sheep and goat Duckery Others (pl.specify) Total

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

** BCR= GROSS RETURN/GROSS COST

Fisheries

Cotto and	Thematic	Name of the	No. of	No. of	No.of	Major pa	arameters	% change in major parameter	Other pa	rameter	*Econe	omics of de	monstratio	n (Rs.)		*Economic (R	s of check s.)	
Category	area	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

Catalan	Name of the	No. of	No. of	No.of	Major pa	rameters	% change para	e in major meter	Other par	rameter	*Econo	omics of de or Rs	monstratior ./unit	n (Rs.)		*Economic (Rs.) or	s of check Rs./unit	
Category	demonstrated	KVKs	Farmer	units	Demons	Check			Demons	Check	Gross	Gross	Net	** BCD	Gross	Gross	Net	** BCP
Oyster					Tation				Tauon		COSt	Ketuin	Ketuili	BCK	COSL	Ketulli	Ketuin	BCK
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	Green	Name of the	No. of	No. of	Area	Filed ob (output/r	servation nan hour)	% change in major parameter	La	bor reduction	on (man day	ys)	Cost r	eduction (F	t.)	./Unit
implement	Сгор	demonstrated	KVKs	Farmer	(ha)	Demons ration	Check									

* 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) / r	najor par	ameter		Economic	rs (Rs./ha)	
				Demonst- ration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals										
Bajra										
Maize	COHM 5	10	4	68.5	43.6	66.9	35435	80080	44645	2.25
Rice	CORH3	12	5	85.3	66.5	28.1	35000	95953.8	60953.8	2.74
Sorghum										
Wheat										

Others (pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Others (pl.specify)										
Total										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (pl.specify)										
Total										
Commercial crops										
Sugarcane										
Coconut										
Cotton	RCH 708	12	5	27.9	19.21	45.23	22700	78120	55420	3.44
Total	_									
Fodder crops	_									
Maize (Fodder)	_									
Sorghum (Fodder)										
Others (pl.specify)			-							
Total										
IVIAI			1		1	1	1		L	

IV. Training Programme

Farmers' Training including sponsored training programmes (On campus)

	No. of				No	. of Particip	oants			
Area of training	Courses	Mala	General	T-4-1	Mala	SC/ST	T-4-1	Mala	Grand Tota	l Tatal
Crop Production		Male	Female	Total	Male	Female	Total	Male	Female	Total
Weed Management	3	38	17	55	5	0	5	43	17	60
Resource Conservation Technologies										
Cropping Systems	1	4	0	4	2	2	4	6	2	8
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production	1	25	25	50	0	0	0	25	25	50
Nursery management										
Integrated Crop Management	8	173	76	249	38	22	60	211	101	312
Soil and Water Conservation										
Integrated Nutrient Management	10	80	15	95	35	28	63	115	43	158
Production of organic inputs	1	0	10	10	0	0	0	0	10	10
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										

Propugation tonnicate planeImage of the set of the s							
Propagation techniques of Ornamental PlantsImage and the set of	Export potential of ornamental plants						
Others (playeetly)Image: set of the set o	Propagation techniques of Ornamental Plants						
d) Planetin corpoImage in the image in the im	Others (pl.specify)						
Production and Management technologyImage of the set	d) Plantation crops						
Processing and value additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage and solute additionImage addit	Production and Management technology						
Others (e)apocity)Image: Section of the s	Processing and value addition						
of Tuber cropsImage: Character	Others (pl.specify)						
Production and Management technologyImagement achnologyImagement achnology<	e) Tuber crops						
Processing and value addition Image: Section of Control of Contr	Production and Management technology						
Others (pl.specify) Image: Section and Management technology Image: Section and Management Image: Section and Managem	Processing and value addition						
Image: Spices Image: Spices<	Others (pl.specify)						
Production and Management technology Imagement technology Imagement technology Processing and value addition Imagement Imagement Imagement Production and management technology Imagement Imagement Imagement Production and management technology Imagement Imagement Imagement Production and management technology Imagement Imagement Imagement Post harvest technology and value addition Imagement Imagement Imagement Soil Health and Fertility Management Imagement Imagement Imagement Imagement Integrated water management Imagement Imagement Imagement Imagement Imagement Integrated water management Imagement or organic inputs Imagement Imagement Imagement Imagement Management of Problematic soits Imagement Imagemen	f) Spices						
Processing and value addition Image: Section of Control of Contr	Production and Management technology						
Others (pl.specify) Image: Specify (Processing Specify) Image: Specify (Processing Specify) Soil Health and Aromatic Plants Image: Specify (Processing Specify) Image: Specify (Processing Specify) Soil Health and Pertility Management Image: Specify (Processing Specify) Image: Specify (Processing Specify) Soil Health and Pertility Management Image: Specify (Processing Specify) Image: Specify (Processing Specify) Soil Health and Pertility Management Image: Specify (Processing Specify) Image: Specify (Processing Specify) Soil Health and Pertility Management Image: Specify (Processing Specify) Image: Specify (Processing Specify) Soil Health and Pertility Management Image: Specify (Processing Specify) Image: Specify (Processing Specify) Image: Specify (Processing Specify) Integrated natrient management Image: Specify (Processing Specify) Image: Specify (Processing Specify) Image: Specify (Processing Specify) Management of Problematic soils Image: Specify (Processing Specify) Image: Specify (Processing Specify) Image: Specify (Processing Specify) Balanced use of fertilizers Image: Specify (Processing Specify) Image: Specify (Processing Specify) Image: Specify (Processing Specify) Image: Specify (Processing Specify) Integrated Mater Easing Image: Specify (Processing Specif	Processing and value addition						
y) Medicinal and Aromatic Plants Image: Constraint of the second sec	Others (pl.specify)						
Nursery management Imagement Imagem	g) Medicinal and Aromatic Plants						
Production and management technology Image: Construction of the second seco	Nursery management						
Post harvest technology and value addition Image: Constraint of the second	Production and management technology						
Others (pl.specify)ImagementImagementImagementSoil Health and Fertility ManagementImagementImagementImagementIntegrated water managementImagementImagementImagementIntegrated nutrient managementImagementImagementImagementProduction and use of organic inputsImagement of Problematic soilsImagement of Problematic soilsImagementManagement of Problematic soilsImagement of Problematic soilsImagement of Problematic soilsImagementMicro nutrient deficiencyImagementImagementImagementNutrient use efficiencyImagementImagementImagementSoil and water testingImagementImagementImagementOthers (pl.specify)ImagementImagementImagementDairy ManagementImagementImagementImagementPoultry ManagementImagementImagementImagementPiggery ManagementImagementImagementImagementPoultry ManagementImagementImagementImagementProduction and ManagementImagementImagementImagementPoultry ManagementImagementImagementImagementProduction of quality animal productsImagementImagementProduction of quality animal productsImagementImagementImagementImagementImagementImagementImagementImagementImagementImagementImagementImagementImagementImagem	Post harvest technology and value addition						
Soil Health and Fertility ManagementImagementImagementSoil fertility managementImagementImagementIntegrated water managementImagementImagementIntegrated nutrient managementImagementImagementProduction and use of organic inputsImagementImagementManagement of Problematic soilsImagement of Problematic soilsImagementMicro nutrient deficiency in cropsImagementImagementNutrient use efficiencyImagementImagementSoil and water testingImagementImagementOthers (pl.specify)ImagementImagementDairy ManagementImagementImagementPoultry ManagementImagementImagementPiggery ManagementImagementImagementPoultry ManagementImagementImagementPrigery ManagementImagementImagementPrigery ManagementImagementImagementPrigery ManagementImagementImagementPrigery ManagementImagementImagementPrigery ManagementImagementImagementPrigery ManagementImagementImagementPrigery ManagementImagementImagementProduction of quality animal productsImagementProduction of quality animal productsImagementImagementImagementImagementImagementImagementImagementImagementImagementImagementImagementImagementImageme	Others (pl.specify)						
Soil fertility managementImagementImagementImagementIntegrated water managementImagementImagementImagementIntegrated nutrient managementImagementImagementImagementProduction and use of organic inputsImagement of Problematic soilsImagement of Problematic soilsImagementManagement of Problematic soilsImagement of Problematic soilsImagement of Problematic soilsImagementMicro nutrient deficiency in cropsImagementImagementImagementNutrient use efficiencyImagementImagementImagementSoil and water testingImagementImagementImagementOthers (pl.specify)ImagementImagementImagementDairy ManagementImagementImagementImagementPoultry ManagementImagementImagementImagementPriggery ManagementImagementImagementImagementPriggery ManagementImagementImagementImagementPriggery ManagementImagementImagementImagementAnimal Disease ManagementImagementImagementImagementFeed and Fodder technologyImagementImagementImagementProduction of quality animal productsImagementImagementImagementHome Science/Women empowermentImagementImagementImagementHome Science/Women empowermentImagementImagementImagementHome Science/Women empowermentImagementImagementImagement <td>Soil Health and Fertility Management</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Soil Health and Fertility Management						
Integrated water management Imagement <	Soil fertility management						
Integrated nutrient managementImagement </td <td>Integrated water management</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Integrated water management						
Production and use of organic inputsImage of the second secon	Integrated nutrient management						
Management of Problematic soils Imagement of Problematic soils	Production and use of organic inputs						
Micro nutrient deficiency in cropsImage: Second	Management of Problematic soils						
Nutrient use efficiencyImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingSoil and water testingImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingOthers (pl.specify)Image: Solitand water testingImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingDitry Solitand WanagementImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingPoultry ManagementImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingPiggery ManagementImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingAnimal Nutrition ManagementImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingFeed and Fodder technologyImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingOthers (pl.specify)Image: Solitand water testingImage: Solitand water testingImage: Solitand water testingImage: Solitand water testingHome Science/Women empowermentImage: Solitand water testingImage: Solitand water testingImage: Solitand water testing	Micro nutrient deficiency in crops						
Balanced use of fertilizers Image: Soil and water testing Image: Soil and water testing Image: Soil and water testing Others (pl.specify) Image: Soil and Management Image: Soil and Management Image: Soil and Management Dairy Management Image: Soil and Water testing Image: Soil and Management Image: Soil and Management Dairy Management Image: Soil and Water testing Image: Soil and Management Image: Soil and Management Poultry Management Image: Soil and Water testing Image: Soil and Management Image: Soil and Management Piggery Management Image: Soil and Management Image: Soil and Management Image: Soil and Management Animal Nutrition Management Image: Soil and Management Image: Soil and Management Image: Soil and Management Animal Disease Management Image: Soil and Moder technology Image: Soil and Moder technology Image: Soil and Moder technology Production of quality animal products Image: Soil and Moder technology Image: Soil and Moder technology Image: Soil and Moder technology Home Science/Women empowerment Image: Soil and Moder technology Image: Soil and Moder technology Image: Soil and Moder technology Home Science/Women empowerment Image: Soil and Moder technology Image:	Nutrient use efficiency						
Soil and water testingImage: Soil and water testingImage: Soil and water testingImage: Soil and Water testingOthers (pl.specify)Image: Soil and ManagementImage: Soil and ManagementImage: Soil and ManagementDairy ManagementImage: Soil and ManagementImage: Soil and ManagementImage: Soil and ManagementPoultry ManagementImage: Soil and ManagementImage: Soil and ManagementImage: Soil and ManagementPiggery ManagementImage: Soil and ManagementImage: Soil and ManagementImage: Soil and ManagementAnimal Nutrition ManagementImage: Soil and ManagementImage: Soil and ManagementImage: Soil and ManagementAnimal Disease ManagementImage: Soil and ManagementImage: Soil and ManagementImage: Soil and ManagementFeed and Fodder technologyImage: Soil and ManagementImage: Soil and ManagementImage: Soil and ManagementProduction of quality animal productsImage: Soil and ManagementImage: Soil and ManagementImage: Soil and ManagementOthers (pl.specify)Image: Soil and ManagementImage: Soil and ManagementImage: Soil and ManagementHome Science/Women empowermentImage: Soil and ManagementImage: Soil and ManagementImage: Soil and ManagementHome Science/Women empowermentImage: Soil and ManagementImage: Soil and ManagementImage: Soil and ManagementHome Science/Women empowermentImage: Soil and ManagementImage: Soil and ManagementImage: Soil and ManagementHome Science/Women empowermentImage: Soil and ManagementImage: Soil and Management	Balanced use of fertilizers						
Others (pl.specify)Image: specify of the specify of the specify of the specify of the specify of the specify of the specify of the specify of the specify of the specify of the specify of the specify of the specify of the specify of the specify of the specify of the specify of the specific of	Soil and water testing						
Livestock Production and ManagementImage: Constraint of the second s	Others (pl.specify)						
Dairy ManagementImage of the second seco	Livestock Production and Management						
Poultry ManagementImage: Science/Women empowermentImage: Science/Women empowerment <td>Dairy Management</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Dairy Management						
Piggery ManagementImagementImagementImagementRabbit ManagementImagementImagementImagementAnimal Nutrition ManagementImagementImagementImagementAnimal Disease ManagementImagementImagementImagementFeed and Fodder technologyImagementImagementImagementProduction of quality animal productsImagementImagementImagementOthers (pl.specify)ImagementImagementImagementHome Science/Women empowermentImagementImagementImagement	Poultry Management						
Rabbit Management Image: Constraint of the system of t	Piggery Management						
Animal Nutrition Management Image: Constraint of the second s	Rabbit Management						
Animal Disease Management Image: Constraint of the second sec	Animal Nutrition Management						
Feed and Fodder technology Image: Constraint of the second se	Animal Disease Management						
Production of quality animal products Image: Constraint of the second	Feed and Fodder technology						
Others (pl.specify) Image: Constraint of the second seco	Production of quality animal products						
Home Science/Women empowerment	Others (pl.specify)						
	Home Science/Women empowerment						

Household food security by kitchen gardening and nutrition gardening	1	0	4	4	1	2	3	1	6	7
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking	1	19	16	35	3	10	13	22	26	48
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	2	0	26	26	0	7	7	0	33	33
Women empowerment										
Location specific drudgery production	1	0	18	18	0	5	5	0	23	23
Rural Crafts										
Women and child care	1	0	2	2	0	9	9	0	11	11
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems	1	10	5	15	5	0	5	15	5	20
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements	2	15	13	28	1	1	2	16	14	30
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	8	204	85	289	30	8	38	234	93	327
Integrated Disease Management	6	64	17	81	22	2	24	86	19	105
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater										
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	3	24	26	50	3	7	10	27	33	60
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Small Scale processing	1	8	12	20	9	11	20	17	23	40
Capacity building for ICT application	6	88	47	135	19	11	30	107	58	165
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	57	752	414	1166	173	125	298	925	539	1464

Farmers' Training including sponsored training programmes (Off campus)

A second data in the second second second second second second second second second second second second second	No. of	No. of Participants										
Area of training	Courses	Male	General Female	Total	Male	SC/ST Female	Total	Male	Grand Tota Female	ıl Total		
Crop Production												
Weed Management												
Resource Conservation Technologies	1	17	3	20	4	1	5	21	4	25		
Cropping Systems												
Crop Diversification												
Integrated Farming												
Micro Irrigation/Irrigation												
Seed production												
Nursery management												
Integrated Crop Management	9	98	27	125	18	2	20	116	29	145		
Soil and Water Conservation												
Integrated Nutrient Management	23	291	32	323	117	21	138	408	53	461		
Production of organic inputs												
Others (pl.specify)												
Horticulture												
a) Vegetable Crops												
Production of low value and high volume crop												
Off-season vegetables												
Nursery raising	1	0	19	19	0	4	4	0	23	23		
Exotic vegetables												
Export potential vegetables												
Grading and standardization												
Protective cultivation												
Others (pl.specify)												
b) Fruits												
Training and Pruning												
Layout and Management of Orchards												
Cultivation of Fruit												
Management of young plants/orchards												
Rejuvenation of old orchards												
Export potential fruits												
Micro irrigation systems of orchards												
Plant propagation techniques												
Others (pl.specify)												
c) Ornamental Plants												
Nursery Management												
Management of potted plants												
Export potential of ornamental plants												
Propagation techniques of Ornamental Plants												

Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	11	6	17	8	0	8	19	6	25
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	17	17	0	5	5	0	22	22
Design and development of low/minimum cost diet										

Designing and development for high nutrient efficiency diet	1	0	18	18	0	5	5	0	23	23
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs	3	0	58	58	0	4	4	0	62	62
Storage loss minimization techniques										
Value addition	10	0	184	184	0	36	36	0	220	220
Women empowerment	2	0	38	38	0	3	3	0	41	41
Location specific drudgery production	1	0	19	19	0	4	4	0	23	23
Rural Crafts										
Women and child care	2	0	18	18	0	24	24	0	42	42
Drudgery reduction	4	0	44	44	0	35	35	0	79	79
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation										
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	2	21	34	55	13	12	25	34	46	80
Post Harvest Technology	1	7	5	12	4	0	4	11	5	16
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	21	254	55	309	71	57	128	328	112	437
Integrated Disease Management	8	79	26	105	28	14	42	107	40	147
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater										
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)										

Decidentian of Lanuts of site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Capacity Building for Income Generation Activities	2	0	39	39	0	4	4	0	43	43
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	93	778	642	1420	263	231	494	1041	873	1914

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

	No. of Participants											
Area of training	Courses	Mala	General	Total	Mala	SC/ST	Total	(Mala	Grand Tota	al Totol		
Nursery Management of Horticulture crops		Male	remate	Total	Male	remate	Totai	Male	remate	Total		
Training and pruning of orchards												
Protected cultivation of vegetable crops												
Commercial fruit production												
Integrated farming												
Seed production	1	25	25	50	0	0	0	25	25	50		
Production of organic inputs	1	0	10	10	0	0	0	10	0	10		
Planting material production												
Vermi-culture												
Mushroom Production												
Bee-keeping												
Sericulture												
Repair and maintenance of farm machinery and implements												
Value addition												
Small scale processing	1	8	12	20	9	11	20	17	23	40		
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												
Capacity building for ICT Application	3	24	26	50	3	7	10	27	33	60		
TOTAL	6	57	73	130	12	18	30	79	81	160		

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

	N	No. of Participants										
Area of training	No. of Courses		General	Toto Mol		SC/ST Formal		Grand Tot		al Toto		
		Male	Female	l	e	e	Total	e	e	l		
Nursery Management of Horticulture crops	1	0	19	19	0	4	4	0	23	23		
Training and pruning of orchards												
Protected cultivation of vegetable crops												
Commercial fruit production												
Integrated farming												
Seed production												
Production of organic inputs												
Planting material production												
Vermi-culture												
Mushroom Production												
Bee-keeping												
Sericulture												
Repair and maintenance of farm machinery and implements												
Value addition												
Small scale processing	2	21	34	55	13	12	25	34	46	80		
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												
Capacity building for income generation activities	2	0	39	39	0	4	4	0	43	43		
TOTAL	5	21	92	113	13	20	33	34	112	146		

Total
ile Total
90
105
7
202

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

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

	No. of	No. of Participants											
Area of training	Courses		General			SC/ST		Grand Total					
		Male	Female	Total	Male	Female	Total	Male	Female	Total			
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization	4	49	19	68	11	8	19	60	27	87			
Information networking among farmers													
Capacity building for ICT application	1	6	4	10	2	2	4	8	6	14			
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Any other (pl.specify)													
Total	5	55	23	78	13	10	23	68	33	101			

Sponsored training programmes

		No. of Courses									
S.No.	Area of training	courses		General			SC/ST		(Grand Tota	վ
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Increasing production and productivity of crops	2	55	12	67	0	3	3	55	15	70
1.b.	Commercial production of vegetables										
2	Production and value addition										
2.a.	Fruit Plants	2	67	97	164	15	21	36	82	118	200
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)										
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	4	38	38	76	2	2	4	40	40	80
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 nutritional security										
11.b.	Economic empowerment of women	3	29	46	75	22	23	45	51	69	120
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
12	Agricultural Extension										
12.a.	Capacity Building and Group Dynamics	2	40	3	43	10	0	10	50	3	53
12.b.	Others (pl.specify)										
	Total	13	229	196	425	49	49	98	278	245	523

Details of vocational training programmes carried out for rural youth

	A way of two ining	No. of	of No. of Participants											
S.No.	Area of training	Courses		General			SC/ST		Grand Total					
			Male	Female	Total	Male	Female	Total	Male	Female	Total			
1	Crop production and management													
1.a.	Commercial floriculture													
1.b.	Commercial fruit production													
1.c.	Commercial vegetable production													
1.d.	Integrated crop management													
1.e.	Organic farming	1	0	10	10	0	0	0	10	0	10			
1.f.	Others (pl.specify)													
2	Post harvest technology and value addition													
2.a.	Value addition													
2.b.	Others (pl.specify)													
3.	Livestock and fisheries													
3.a.	Dairy farming													
3.b.	Composite fish culture													
3.c.	Sheep and goat rearing													
3.d.	Piggery													
3.e.	Poultry farming													
3.f.	Others (pl.specify)													
4.	Income generation activities													
4.a.	Vermi-composting													
4.b.	Production of bio-agents, bio-pesticides,													
	bio-fertilizers etc.													
4.c.	Repair and maintenance of farm machinery													
	and implements													
4.d.	Rural Crafts													
4.e.	Seed production	1	25	25	50	0	0	0	25	25	50			
4.f.	Sericulture													
4.g.	Mushroom cultivation													
4.h.	Nursery, grafting etc.	1	0	19	19	0	4	4	19	4	23			
4.i.	Tailoring, stitching, embroidery, dying etc.	3	29	46	75	22	23	45	51	69	120			
4.j.	Agril. para-workers, para-vet training													
4.k.	House Hold food security													

5	Agricultural Extension										
5.a.	Capacity building and group dynamics	5	24	65	89	3	11	14	44	59	103
5.b.	Others (pl.specify)										
	Grand Total	11	78	165	243	25	38	63	149	157	306

V. Extension Programmes

Activities	No. of Programmes	No. of farmers	No. of Extension Personnel	TOTAL
Field Days	14	450	0	450
Kisan Mela				
Exhibitions	6	981	199	1180
TV Programmes				
Radio Programmes	2	0	0	0
Film Show				
Diagnostic Visits	1	1	0	1
Exposure Visits				
Animal Camps				
Field Visits	100	1135	28	1163
Kisan Gosthi				
Mahila Mandals				
Farmers visits to KVK	133	196	21	217
Advisory enquiry / Helplineservices				
Farmers Meeting				
Farm Science Club Meeting	7	157	0	157
Extension literature	137	3719	26	3745
Newspaper/Radio/TV coverage	8			
FFS Demonstration				
Scientists visits to farmers fields	23	154	2	156
SHG Formation	6	104	0	104
Self Help Group meetings	18	349	0	349
Ex-trainees sammelan	1	0	40	40
Home visit	76	563	0	563
Farmwomen visit to KVK	38	113	0	113
Telephone calls	183	173	9	182
FLD Farmers Scientists Interaction	5	75	0	75
FLD Field visit	60	787	0	787
FLD FSC Formation	6	171	0	171
FLD Field Day	17	453	0	453
OFT field visit	69	419	0	419
OFT FSC Meeting	1	25	0	25
Village forest committee meeting				
FFS Session Conducted				
Method demonstration	4	93	0	93
Farmer Enquiry	8	8	0	8
FFS Field Day	1	20	0	20
FFS Field Visit	6	57	0	57
Human Rights Day				
Popular Article				
Lecture Delivered	6	267	170	437
Field Survey				
NGO Network Meeting	6	0	106	106
OFT Field Day	1	30	0	30
Video Clipping	1	0	0	
Awareness Campaign on Parthenium Eradication	1	0	45	45
FLD FSC Meting	3	105	0	105

FLD Training	8	125	0	125
FLD Demonstration	1	22	0	22
OFT Training	1	5	0	5
Farmers Tour	4	112	0	112
Radio Coverage	2	0	0	0
Tractor Service Mela	1	10	0	10
Technology Week				
International Drug Abuse Prevention and Awareness Day	1	65	10	75
Radio Talk	1		0	0
Joint Diagnostic Field Visit	2	6	7	13
SMS Messages	56	157	69	226
World Differently Abled Day	1	0	50	50
Seminar	1	474	0	474
Meet with expert programme	1	70	0	70
Biogas Awareness Camp	1	23	0	23
Awareness Programme for Panchayat Presidents on Disabled Rehabilitants	1	18	0	18
Total	1030	11692	782	12474

Details of other extension programmes

Particulars	Number
Electronic Media	
Extension Literature	103
News Letter	4
News paper coverage	8
Technical Articles	
Technical Bulletins	
Technical Reports	
Radio Talks	5
TV Talks	
Animal health amps (Number of animals treated)	
Others (pl.specify)	
Total	120
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	Sorghum	CO S 28	12 q	24000	60
	Cumbu	Co Cu 9	9 q	18000	40
Oilseeds	Groundnut	VRI 2	16.5 q	41250	30
Pulses	Greengram	CO 7	8 q	32000	35
	Blackgram	VBN 3	8 q	60000	30
Commercial crops					
Vegetables					
Flower crops					
Spices					
Fodder crop seeds					
Fiber crops					
Forest Species					
Others					
Total			53.5 q	175250	195

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	Cashew	VRI 3	3000	15000	10
Spices					
Tuber					
Fodder crop saplings					
Forest Species					
Others					
Total			3000	15000	10

Production of Bio-Products

	Name of the bio-product	Quantity		
Bio Products		Kg	Value (Rs.)	No. of Farmers
Bio Fertilizers	Vermicompost	7000	35000	35
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others	Earthworm	159	38850	15
Total		7159	73850	50

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Goat)	Kannaiah	2	3000	2
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		2	3000	2

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

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	69	71	48	3450
Water	60	60	42	3000
Plant	0	0	0	0
Manure	0	0	0	0
Others (pl.specify)	0	0	0	0
Total	129	131	90	6450

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted

IX. NEWSLETTER

Number of issues of newsletter published 4

X. RESEARCH PAPER PUBLISHED

Number of research paper published NIL

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

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