ANNUAL REPORT
(2010-2011)

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		
Krishi Vigyan Kendra Collectorate Complex Ramanathapuram – 623 503 Tamil Nadu	04567- 230250	04567-230250	arsramnad@tnau.ac.in	---

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

Address	Telephone		E mail	Web Address
	Office	Fax		
Tamil Nadu Agricultural University, Coimbatore - 641 003	0422-6611233	0422-6611433	dee@tnau.ac.in	www.tnau.ac.in

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

Name	Telephone / Contact		
Dr.V.Ganesaraja,Ph.D.,	Residence	Mobile	Email
	27, Perumal Koil South Mada Street Madurai-625 001	94439 55444	vetriganesh.raja@gmail.com ganesh.vraja@yahoo.co.in

1.4. Year of sanction: April-2004

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 +GP	Date of joining KVK	Permanent /Temporary	Category (SC/ST OBC/ Others
1	Programme Coordinator	Dr.V.Ganesaraja	Professor	M	Agronomy	M.Sc (Agri) Ph.D.,	37400-67000+ GP 10000	66960	02.03.2011	Permanent	OBC
2	Horticulture	Dr.P.Thukkaiyannan	Assistant Professor	M	Agronomy	M.Sc (Agri) Ph.D.,	15600 - 39100 + GP6000	25600	30.12.2009	Permanent	SC
3	Agro Forestry/ Pl.Bd. Seed Sci & Tech	Dr.A.Anuradha	Assistant Professor	F	SS&AC	M.Sc (Agri) Ph.D.,	15600 - 39100 + GP6000	25600	30.12.2009	Permanent	OBC
4	Agrl. Engineering	Dr.C.Kavitha	Assistant Professor	F	Horticulture	M.Sc (Agri) Ph.D.,	15600 - 39100 + GP6000	25600	30.12.2009	Permanent	OBC
5	Pl. Protection (Ag.Ento/Pl.Path)	Dr.C.Vijayaraghavan	Assistant Professor	M	Agrl. Entomology	M.Sc (Agri) Ph.D.,	15600 - 39100 + GP6000	25600	31.12.2009	Permanent	SC
6	Home Science	Dr.V.Meenakshi	Assistant Professor	F	Home Science	M.Sc (Agri) Ph.D.,	15600 - 39100 + GP6000	25600	13.01.2010	Permanent	OBC
7	Agronomy/Ag.Extn.	Dr.G.Anand	Assistant Professor	M	Agrl. Extension	M.Sc (Agri) Ph.D.,	15600 - 39100 + GP6000	25600	01.02.2010	Permanent	SC
8	Prog-Asst (Lab Tech.)/T-4	Th..C.Karunaithasan	Programme Assistant(Tech)	M	Agronomy	M.Sc., (Agri)	9300-34800+ GP4400	13700	25.02.2011	Permanent	OBC
9	Prog Asst (Comp)/ T-4	Tmt.G.Namagirilakshmi	Programme Assistant(Comp)	F	Computer Science	B.Sc., (Comp.Sci)	10230-34800 + GP4400	15530	10.12.2008	Permanent	Others
10	Programme Assistant/FarmManager	Tmt. M. Jeyenthimala	Farm Manager	F	Agriculture	B.Sc., (Agri)	10230-34800 + GP4400	16000	06.06.2007	Permanent	SC
11	Assistant	Tmt. C.Anitha	Superintendent	F	-		9300 – 34800 + GP4800	15910	19.11.2010	Permanent	SC
12	Jr. Stenographer	Th. N. Gunaseelan	Typist	M	-		5200-20200 + GP2400	9640	22.10.2007	Permanent	OBC
13	Driver	Th. A.Paulraj	Driver	M	-	-	5200-20200 + GP2400	8910	01.07.2010	Permanent	SC
14	Driver	Th.V.Sridharan	Supervisior	M	-	-	9300-34800+ GP4200	16260	01.06.2010	Permanent	OBC
15	Supporting staff	Tmt. K.Rukkumani	MTSP	F	-	-	2500-5000 + GP500	3090	16.09.2010	Permanent	SC

16	Supporting staff	Tmt. T.Dhanavalli	MTSP	F	-		2500-5000 + GP500	3090	16.09.2010	Permanent	SC

1.6. Total land with KVK (in ha) : 16.80 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.60
2.	Under Demonstration Units	0.40
3.	Under Crops	3.60
4.	Orchards/Agro-forestry)	0.20
5.	Others	1.60
6.	CSRC Farm at ARS, Paramakudi	10.40
	Total	**16.80**

1.7. Infrastructural Development: A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR - KVK	An amount of Rs 18.0 lakh has been allotted and deposited for execution.					
2.	Farmers Hostel	NADP – KVK	31.05.03	365	45 lakhs			
3.	Staff Quarters		NIL					
4.	Demonstration Units	ICAR – KVK	31.03.05	2153	1.87 lakhs			
	(1) Goat Shed (2) Mushroom Production demo units and Food Processing Unit	ICAR – KVK	An amount of Rs 18.0 lakh has been allotted and deposited for execution.					
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
Jeep - Bolero-LX	2004	4,96,711/-	112249 Km	Running Condition Not fit for long trip.
Two Wheeler - Hero	2006	38,003/-	26720 Km	In Good Condition

Honda CD Deluxe				
Two Wheeler - Hero Honda Super Splendor	2009	49,987/-	10840 Km	In Good Condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Display Boards and Accessories	2010	9500	Good
Easy carry of Display System	2010	9500	Good
Steel seed storage cabinet ($5^{1/2}$ X $1^{1/2}$)	2010	4000	Good
Wood laminated chart -10nos	2010	6500	Good
Wood laminated chart – 6nos	2010	3900	Good
4 x2 Exhibition Material Display Stand	2010	3600	Good
Computer accessories 1. DVD writer drive 2. 5.1 channel sound card 3. 2.1 multimedia speaker	2011	3,800	Good
Laser printer	2011	9,800	Good
Inkjet printer	2011	7,950	Good
Split air conditioner	2011	24,990	Good

1.8. Details SAC meeting conducted in 2010-11

S. No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	13.09.10	18	1	1. Latest breeds like Tell cherry, Jamuna bari can be reared in IFS Unit for crossing.	The demo unit will be started soon.
				2. Fodder cultivation CN (Co-4) at KVK Farm.	Action was initiated in the current year 2010-2011
				3. Special training Porgramme for vermicompost and bio fertilizer.	Action initiated and continuing.
				4. Trainings for rural youth has to be imparted.	Action will be taken from this year on wards
				5. Trainings for extension functionaries	Action will be taken from this

				has to be conducted.	year on wards.
				6.Suitable seed drill for rainfed rice.	The existing seed drill(2 Nos) was taken for repair works and additional numbers will be provided to this centre through IAMWARM as allotted in the budget 2010-11
				7. Popularization of Anna-4 rice in Ramanathapuram	Action was initiated this year through KVK action plan 2010-11
				8. Popularize Mini Mobile Sprinkler unit in coordination with line departments.	Action will be taken from this year in coordination with all the line departments though on going NADP Scheme at CSRC, Ramanathapuram
				9. Popularization Of Salt Lick In Ramanathapuram District.	Action was initiated in the current year as per the KVK action plan 2010-11
				10. Ground Nut (Variety TMV13) has to be Popularized.	Action will be initiated during 2011-12 though KVK Action Plan
				11. Drip Irrigation System In KVK Farm has to be Developed.	Action will be taken during this year 2010-11
				13.Trainings can be imparted to Nabard farmers club members and master trainers has to be developed	Action will be taken from the year 2010-2011
				14. Popularization of Barn yard millet (Variety: Co-2) in Muthukulathur block of Ramanathapuram district.	Action will be taken during 2011-2012 through KVK action plan

PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1	Rainfed Rice

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

S. No	Agro-climatic Zone	Characteristics
	Southern zone	Erratic distribution of monsoon rains

S. No	Agro ecological situation	Characteristics
	Ramanathapuram district is situated on the south - eastern coast of the Indian peninsular between 11º & 12º N latitude and 77º 28' & 78º 50' E longitude. Ramanathapuram occupies a total geographic area of 4, 68,957 ha with eleven blocks in seven	Coastal climate

	taluks. This district comprises a population of 2, 60,365 and 8, 75,522 of urban and rural population, respectively	

2.3 Soil types

S. No	Soil type	Characteristics	Area in ha
1.	Clay soil	Fine texture, high water holding capacity with water logging	182463
2.	Coastal alluvial soil	Saline	71357
3.	Sandy loam soil	Moderately well drained soil	63602
4.	Alluvial soil	High fertility	43769
5.	Sandy clay soil	Ideal texture	22138
6.	Red soil	High iron and alumina	18390
7.	Sandy soil	Coarse texture, low fertility	7328
Total			**408957**

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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1.	Paddy	128000	327859	2552
2.	**Millets**			
	Cholam	2117	1825	862
	Cumbu	889	998	1123
	Ragi	1448	1927	1331
	Minor millets	404	181	448
	Total Millets	4858	4571	941
3.	**Pulses**			
	Blackgram	2741	0.0075	275
	Greengram	181	0.0005	250
	Cowpea	727	0.0018	250
	Horsegram	469	0.0011	240
4.	**Oil Seeds**			
	Groundnut	6112	5409	88.5
	Gingelly	1636	661	404
	Sunflower	145	51	351
5.	Sugarcane	231	28644	124
6.	Cotton	2733	6559	2.40 (Bales)
7.	Coconut	7942	1112 lakh nuts	14000
8.	Chillies	16292	13164	808
9.	Coriander	1748	443	254

* Please provide latest data from authorized sources. Statistics annual report 2009-10

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
APR-2010	26.0	35.25	27.32	73.32
May -2010	76.0	34.92	29.61	63.38
June- 2010	0.0	35.34	29.13	64.22
July-2010	57.0	32.55	27.30	64.25
Aug -2010	92.5	34.33	25.77	70.05
Sep-2010	93.0	31.94	24.75	73.22
Oct-2010	239.5	32.41	24.97	77.92
Nov-2010	534.0	28.74	23.31	83.46
Dec-2010	152.5	27.43	22.65	81.41
Jan-2011	32.5	27.45	22.80	79.36
Feb -2011	92.5	28.33	22.69	77.06
March-2011	0.0	29.29	23.62	76.83

* Please provide latest data from authorized sources. http:\\tawn.tnau.ac.in.

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

Category	Population	Production	Productivity
Cattle			
Crossbred	58007	-	-
Indigenous	72888	-	-
Buffalo	3468	-	-
Sheep			
Crossbred			
Indigenous	245334	-	-
Goats	236786	-	-
Pigs		-	-
Crossbred			
Indigenous	2821	-	-
Rabbits	412	-	-
Poultry			
Hens		-	-
Desi	335526	-	-
Improved		-	-
Ducks	415	-	-
Turkey and others	1311	-	-

Category	Area	Production	Productivity
Fish			
Marine			
Inland			
Prawn			
Scampi			

Shrimp			

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

2.7 District profile has been prepared and submitted : Yes

2.8 Details of Operational area / Villages

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem Identified	Identified Thrust Areas
1.	Kadaladi	Kadaladi	1. Appanur 2. Sayalgudi 3. Sikkal 4. Keelachelvanur 5. Melachelvanur 6. Keela sirupothu 7. Mela sirupothu	Since inception	1. Paddy	• Non-availability of short duration varieties • Smut,blast disease incidence • BPH, stem borer, leaf folder ,Ear head bug incidence Zinc deficiency	• Short duration varieties suitable for rain fed eco-system • Popularization of SRI • Integrated Pest and disease management practices to control identified pest problems. • Integrated nutrient • management practices
					2. Cotton	• Soil moisture stress • Stem weevil • Boll worm • Mealy bug	• IPM practices to overcome the pest incidence • Soil moisture conservation
					3.Oil seeds Groundnut Gingelly	• Leaf minor • Root grub • Yield reduction due to ill filled pod	Gypsum application INM,IPM

					4. Pulses Green gram Black gram Cowpea	Flower dropping Aphids,Pod borer	Growth regulators IPM,INM
					5. Coconut	• monocroping • Water scarcity	• Intercropping with annuals • Low cost fertigation
					6.Horticulture Chilli Coriander	• Fruit rot • Fruit borer • Flower and fruit drop • Sucking pests • Lack of knowledge on cultivation techniques	• Suitable pest management practices • Growth regulator spray
					7.Animal husbandry Cattle Goat & sheep rearing	• Foot and mouth diseases • Blue tongue • Non availability of green fodder • Low milk yield	• Important diseases and their control measures • Vaccination • Artificial insemination • Popularization of mixed fodder • Recommended feed ration
					SHGs	• Labour migration • Lack of income generating technologies	• Creating self employment opportunities Resource based income generating trainings
2	Kamuthi	Kamuthi	1. Kamuthi 2. Abiramum 3. Peraiyur 4. Kovilangulam	Since inception	Crop i. Paddy	• Low yield • Weed population • Stem borer • Ear head bug	• Varietal introduction • Recommendation of suitable herbicide • IPM for Stem borer & Ear head bug

			5. Perunali 6. Neeravi 7. Ramasamypatti	Since inception	ii) Millets Maize Ragi	Low yield	• Introduction of High yielding varieties and hybrids • Saline tollerent Ragi varieties • Improved cultivation techniques to increase the yield
				Since inception	iii.Oil seeds/ Pulses iv.Groundnut v.Blackgram	• Low yield • Leaf eating caterpillar • Root grub • Chaffy pod	• Integrated Pest management to control pest in groundnut • gypsum application to get more yield
					vi. Cotton	Stem weevil Drought and low yield	• Introduction of drought tolerant varieties • Suitable IPM measure for Stem weevil control
					vii.Sugarcane	• Low yield • Water problem	• Introduction of drip cum fertigation
					Horticulture crops	Chilli • Fruit rot • Marketing	• Suitable control measure for the control of fruit rot • Adoption of Regulatory marketing system
						Banana • Low yield • Varieties for fruit purpose • Fluctuations in market price	Improved high yielding varieties for fruit purpose by replacing the local variety (leaf banana)
					Enterprises • Charcoal making • Animal husbandry cattle, goat & sheep rearing	• Animal husbandry • Goat & sheep blue tongue disease	• Suitable control measures for the control of blue tongue disease

					Farm women and SHGs	• Income generating technologies	• Vermi compost • Mushroom production
3	Muthukulathur	Muthukulathur	1. Muthukulathur 2. Theriruveli 3. Thiruvaranam 4. Sampakulam 5. Kodumulur	Since inception	1. Paddy	• Micro nutrient deficiency	• INM & micronutrient application
					2. Cotton	Stem weevil	IPM for the control of stem weevil
					3. Millets Ragi Kuthiraivali	Low yield	Package of practices
					4. Oil Seeds Gingelly	Phyllody disease	Suitable control measures for phyllody disease
					5. Pulses Black gram	Lack of high yielding variety	Introduction of improved varieties of pulses
					Enterprise Animal husbandry Goat, Sheep and cattle rearing	-Foot & mouth disease - Blue tongue - Low milk yield	• Vaccination • Improved modern techniques in cattle management • Balanced feed to increase the milk yield
					SHGs	Income generating technologies	• Vermi compost • Mushroom roduction • Composted Coir pith

4	Parama kudi	Paramakudi	1.Manjapattanam 2.Pambur 3.Mela Ayakudi 4.Elanthaikulam 5.Kamuthakudi 6. Ariyanenthal	Since inception	Paddy	• Stem borer • Micro nutrient deficiency	• IPM in paddy • Micro nutrient application
					Millets Cumbu Ragi Kuthiraivali	Low yield	High yielding varieties
					Blackgram Redgram	Lack of suitable varieties No sole crop cultivation	High yielding varieties Modern cultivation techniques
					Cotton	Lack of high yielding varieties Boll worm Low price	• Recommending high yielding varieties • IPM for boll worm control • Better marketing techniques
				Since inception	Sugarcane	• water deficit • Lack of knowledge on drip irrigation • Low soil fertility	• Introduction of drip cum fertigation technology • Introduction of daincha as intercrop
					Horticultural crops Chilli Vegetables Banana	• Low organic matter • Marketing • Low yield • Banana	• Azophos application • Grading techniques • Post harvest technologies • Introduction of HYV banana
					Enterprise Cattle& goat rearing	• Goat • Blue tongue disease	• Goat • Vaccination
					SHGs	Income generating technologies	• Food processing • Vermi compost • Mushroom

		Nainarkoil	1. Pandiyur 2. Manjakollai 3. Kiliyur 4. Sathirakudi	Since inception	Paddy	• Pest problem (Stem & shoot borer)	• IPM in paddy
					Cumbu	Honey dew diseases	• Spray ridomil 2.5 ml in 1 lit. of water
					Groundnut	• Root rot • Ill filled pod	• Seed treatment with Bavistin • Gypsum application
					Chilli	• Low yield • Fruit rot	• Biofertilizer + Neem cake application to increase nutrient status • Integrated pest and disease management
					Vegetables	Local variety	• High yielding and hybrid vegetable will be recommended • Drip irrigation for vegetable cultivation in large scale cultivation
					Banana	Local variety	• Introduction of HYV banana
					More number of SHGs	Income generating technologies	• Food processing • Vermi compost • Mushroom
					Enterprises Cattle goat & sheep management	• Blue tongue diseas	• Vaccination • Improved techniques for cattle management to increase the milk yield.

	Bogalur	Bogalur	Ariyakudi A.Puttur	Since inception	Paddy	• Erratic rainfall	• Seed hardening practices to over come drought
					Groundnut	• Root rot • ill filled pods • Low yield due to poor population	• *IPM practices* • Gypsum application • Seed drill sowing
					Pulses	• Low yield due to local varieties	• Suggesting high yielding varieties
					Chilli	• Lack of knowledge on INM	• Introduction of INM practices
5	Ramana thapuram	Ramanathapuram & Thirupullani	Mudhunal Achuthanvayal Etttivayal Perungulam R.S. Madai Thirupullani Kancchirangudi Kalari	Since inception	Paddy	• Salinity • Low fertile soils • Low yield	• Saline tolerant variety introduction • Improvement of soil fertility • Seed drill sowing to increase the Yield
					Millets	Low yield	Package of practices
					Oilseeds Gingelly Groundnut	Local variety Low yield	High yielding varieties INM
				Since inception	Pulses Blackgram Greengram	Non availability of high yielding varieties	Introduction of high yielding varieties
					Cotton	Boll worm	Recommending suitable IPM practices
					Vegetables	Low yield	High yielding varieties
					Chilli	Fruit borer	IPM in chilli

			Uthiragosamangai Vannangundu		Mango	Low yield Low soil fertility	High yielding varieties INM
					Paddy	• Drought • Low yield	• Introduction of drought tolerant varieties • Seed drill sowing to increase the Yield
					Millets Ragi	Low yield	Package of practices
6	Thiruvadanai	Thiruvadanai	Kadampakudi Pudukudi Usilanakottai Thondi	Since inception	Paddy	• Stem borer • Low yield due to cultivating local rice varieties	• IPM measures • Introduction of saline resistant short duration variety - RM 96019
					Cotton	Stem weevil	IPM measures
					Chilli	Fruit rot	Suitable control measures for fruit rot
					Enterprises	• Cattle-Foot and mouth disease • Goat-Blue tongue disease	• Effective management practices • Vaccination
					SHGs	Lack of knowledge on self employment opportunities	Need and resource based trainings

		R.S. Mangalam	Sittanendal Indiranagar Perumalmadai Sengudi Ettiyathidal	Since inception	Paddy	• Non-availability of short duration varieties • Smut disease incidence • BPH incidence • Stem borer incidence • Leaf folder incidence • Ear head bug incidence • Blast incidence • Zinc deficiency	• Short duration varieties suitable for rain fed eco-system • Popularization of SRI • Integrated Pest and disease management practices to control identified pest problems. • Integrated nutrient • management practices
					Vegetables	• Low yield due to raising local varieties	• Introduction of high yielding vegetables
7	Rameshwaram	Mandapam	Uchipuli Akkamadam Thangachimadam Pirappan valasai	Since inception	Coconut	• Button shedding • Poor water holding capacity • More saline water	• Micronutrient mix application • Introduction of Drip cum fertigation • Soil moisture conservation techniques • Improved cultivation techniques and varieties

			Pamban		Jasmine	Poor yield Bud worm	Focusing proper propagation techniques Suitable IPM for bud worm control to increase the quality of flowers
					Betelvine	Low yield Mosaic disease	• Improved cultivation techniques • Suitable control measure for mosaic virus
					Palmyra	Lack of knowledge on its utilization	Value addition
				Since inception	Cashew and Sapota	Lack of production technologies and varieties	• Improved cultivation techniques and varieties • INM
					Enterprises Jasmine terminal and semi hard wood cutting Palmyra nursery preparation Prawn culture	Lack of Knowledge on semi hard wood cutting preparation and use of mist chamber Lack of knowledge on alternative jobs.	Palmyra based value added products. Training on suitable technologies
					SHGs	Alternate jobs other than fisheries	Suitable need based activities

2.8 Priority thrust areas

1. Dissemination of saline and drought tolerant Rice varieties suitable for rainfed situation
2. Weather based agro advisory service.
3. Management practices to overcome water logging and salinity conditions of rice cultivation
4. Popularization of high yielding varieties, hybrids and saline and drought tolerant varieties
5. Conservation of farm ponds with vegetative barriers
6. Promotion of oil seeds and pulses (Castor and Red gram) cultivation
7. Micronutrient management in Rainfed Rice
8. Foliar spraying of nutrients for pulses
9. Introduction of high yielding variety of Gingelly with INM
10. Introduction of micronutrient mixture for Coconut
11. Management of Brown plant hopper, yellow stem borer in rice
12. Management of Infertility animals
13. Green fodder cultivation
14. Mineral mixture for milch cows
15. Introduction of annual moringa and betelvine in coastal areas
16. Intercropping in coconut gardens
17. Management of flower and fruit drop in chilli
18. Introduction of high yielding variety in chilli, onion and snake gourd
19. Value addition and keeping quality of fish and dry fish.
20. Solar drying in dry fish making
21. Post harvest management of banana

PART III - TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
9	9	80	80	12	12	172	172

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
56	56	1527	1527	331	331	4109	4109

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
Rice - 1	0.85	Seedlings - 4,44,00	4,44,00

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
-	-	Vermicompost - 1420	1420
		Earthworm - 1	1

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of lives tock (No.)	Supply of bio products	
													No.	Kg
1.	Post harvest management of Fish	Fish	1. Loss due to trash fish 2. poor quality dry fish 3. Fish spoilage due to unhygienic fresh fish handling	-	Popularization of Insulated Fish Bags for hygienic handling	-	-	-	-	-	Insulated Fish Bag - 10 Nos Capacity -50 kg	-	-	-

2.	Post Harvest management of banana	Banana	Low market price due to poor quality, Fruit demage	--	Post Harvest management of Banana 1.Popularization of Banana Bunch Cover technique in improving the quality of banana 2.Popularization of banana comb cutter	1	--	--	Radio Talk-1 TV Programme-2 News paper -1	--	1.Banana Bunch Cover - 3250 Nos 2.Banana Comb Cutter – 20 Nos	--	--	--
3.	Post Harvest management of chilli	Chillies	Perishability of green chillies	--	Popularization of Vegetable preservator for shelf life extension of green chilies	2	1	-	TV Programme-1	-	CRIDA Vegetable Preservator- 6Nos Capacity-50 kg			
4.	Pest incidence	Paddy	Stem borer damage Low yield	--	Management of yellow stem borer in rainfed rice	3	1	--	1	--	--	--	Pheromone drops Trichogramma egg cards	--
5.	Pest incidence	Paddy	Brown plant hopper incidence	--	Management of brown plant hopper in rainfed rice	3	1	--	1	--	--	--	Light traps	--

6	Introduction	Rice	Lack of awareness & low yield of existing variety		popularizatio n of Anna 4 rice variety in the district	-	-	-	-	Rice Seed Anna 4 0.75	-	-	-	Azospi rillum 600 gm
7	Introduction	Rice	Lack of awareness & low yield of existing variety		popularizatio n of CoRH3 rice hybrid in the district	1	-	-	-	Rice Seed Co RH3 0.2	-	-	-	-
8	Introduction	Gingelly	Lack of awareness & low yield of existing variety	-	Varietal introduction with INM -	-	-	-	-	Seed 0.05	-	-	-	Azospi rillum phoph obacte ria Rhzopi um
9	Low yield	Chilli	Improper flower setting	-	Integrated crop management practices for chilli –KKM (Ch)1	-	-	-	-	Chilli seed 0.02	-	-	-	planofi x
10	Introduction	Snake gourd	Lack of awareness & low yield of existing variety	-	Varietal introduction of snake gourd Co2	-	-	-	-	Seed 0.015	-	-	-	-
11	Low Yield	Coconut	Low yield improper INM	-	Micro nutrient mixture for Coconut -	-	-	-	-	-	-	-	-	-

12	Management	calves	Hygienic &disease free	-	Popularization of salt lick mineral cakes for calves	5	2	-	Periodic demonstrations on management of livestock	-	-	-	-	-
13	Low milk yield	cow	Infertility uneven estrus synchronization	Management of infertility in cross breed cows	-	5	2	-	Periodic demonstrations on management of livestocks	-	-	-	-	-
14	Poor water holding capacity/low yield	Coconut	Improper nutrient management non adoption of soil conservation practice 30-50% loss	Inter cropping in coconut gardens	-	-	-	-	-	-	-	-	-	-
15	Nutrient Management	Paddy	(i) improper nutrient management (ii)low yield (iii)poor crop stand	Micro nutrient mixture for rainfed rice	-	-	-	-	-	-	-	-	-	-

16	Low yield in pulse	Pulse	(i)low yield (ii) improper application of foliar spray	Assessment of the performance of pulse wonder in rainfed blackgram	-	-	-	-	-	-	-	-	-	-
17	Economics in cost of cultivation	Chilli	Improper nutrient management,low yield	Soil test based IPNS in chilli	-	-	-	-	-	-	-	-	-	-
18	Introduction	Red gram	Lack of awareness &low yield	Performance evaluvation of red gram varieties	-	-	-	-	-	-	-	-	-	-
19	Farm implement	Rice	Labour shortage	Assessment of efficient Mechanical weeding	-	-	-	-	-	-	-	-	-	-
20	Soil reclamation &low yield	Rice	Low land &salinity	Management of water logging and salinity conditions in rainfed rice	-	-	-	-	-	-	-	-	-	-
21	Low yield	castor	Lack of awareness &low yield	Performance evaluation of castor	-	-	-	-	-	-	-	Castor seeds	-	-

3. B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No.of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Popularization of Insulated Fish Bags for hygienic handling	Central Institute of Fisheries Technology, Visakhapatnam	Fish	-	1	-	-
2	Post Harvest management of Banana 1.Popularization of Banana Bunch Cover technique in improving the quality of banana 2.Popularization of banana comb cutter	1. National Research Centre For banana, Trichy 2. Central Institute of Post Harvest Engineering Technology, Ludhiana	Banana	-	1	1	Radio Talk- 1 No TV Programme -2 Nos News paper -1No Training -1 No
3	Popularization of Vegetable preservator for shelf life extension of green chilies	Central Research Institute For Dry Land Agriculture, Hyderabad	Chillies	-	1	3	TV Programme -1 No Training – 3 Nos
4.	Integrated Pest management	TNAU	Paddy	-	2	4	Radio Talk- 1 No TV Programme -2 Nos
5.	Popularization of Anna 4 rice variety in the district	TNAU	Rice –Anna4		1	-	
6	Popularization of Co R (H)3 rice Hybrid in the district	TNAU	Rice – Co R (H)3		1	-	
7	Integrated crop management practices for chilli-KKM (ch) 1	TNAU	Chilli	-	1	2	-
8	Varietal introduction of snake gourd – Co 2	TNAU	Snake gourd	-	1	2	-

9	Micro nutrient mixture for coconut	TNAU	Coconut	-	1	1	-
10	Varietal introduction with INM	TNAU	Gingelly	-	1	1	-
11	Salt lick mineral cakes for calves	TNUAS	Animal Husbandry	-	1	2	2
12	Inter cropping in coconut gardens	TNAU	Coconut	1	-	1	-
13	Micro nutrient mixture for rainfed rice	TNAU	Paddy	1	-	2	-
14	Assessment of the performance of pulse wonder in rainfed blackgram	TNAU	Pulse	1	-	2	-
15	Soil test based IPNS in chilli	TNAU	Chilli	1	-	1	-
16	Performance evaluation of red gram varieties	TNAU	Red gram	1	-	-	-
17	Assessment of efficient Mechanical weeding	TNAU	Rice	1	-	-	-
18	Management of water logging and salinity conditions in rainfed rice	TNAU	Rice	1	-	-	-
19	Performance evaluation of castor	TNAU	castor	1	-	-	-
20	Mineral mixture + PGF 2 Alpha	TNUAS	Animal Husbandry	1	-	3	-

3. B2 contd...

No. of farmers covered															
OFT				**FLD**				**Training**				**Others (Specify)**			
General		**SC/ST**		**General**		**SC/ST**		**General**		**SC/ST**		**General**		**SC/ST**	
M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**
9	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**
				7	**2**	**1**	-	-	-	-	-	-	-	-	-
-	-	-	-	**22**	**3**	**5**	-	**19**	**1**	-	-	-	-	-	-
-	-	-	-	**2**	**4**	-	-	**42**	**28**	**3**	**17**	**TV & Radio Programme-Mass**	-	-	-
-	-	-	-	**34**	**3**	-	-	**140**	**128**	-	--	**TV & Radio Programme-Mass**	-	-	-
18	-	**3**	-	**10**	-	**10**	---	**40**	-	-	--	-	-	-	

-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	17	3	-	-	21	15	24	21	-	-	-	-
-	-	-	-	14	6	-	-	29	17	-	-	-	-	-	-
-	-	-	-	7	3	-	-	20	2	-	-	-	-	-	-
-	-	-	-	8	2	-	-	20	6	-	-	-	-	-	-
-	-	-	-	38	6	24	12	41	10	-	-	47	12	4	-
3	2	-	-	-				24	0	-	-	-	-	-	
4	1	-	-	-	-	-	-	32	18	-	-	-	-	-	-
3	2	-	-	-	-	-	-	16	39	-	-	-	-	-	-
5	-	-	-	-	-	-	-	13	9	-	-	-	-	-	-
3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-							-	-	-	-	-	-	-	-
19	8	11	2	-	-	-	-	32	30	33	-	-	-	-	-

PART IV - On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	Total
Integrated Nutrient Management	1		1	-	1	-	-	-	-	3
Varietal Evaluation	-	1	1	-	-	-	-	-	-	2
Integrated Crop Management	1	-	-	-	-	-	-	1	-	2
Weed Management	1	-	-	-	-	--	-	-	-	1
Total	**3**	**1**	**2**	**-**	**1**	**-**	**-**	**1**	**-**	**8**

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	Total
Total	**NIL**									

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	Total
Production and Management	1	-	-	-	-	1
Total	**1**	-	-	-	-	1

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	Total
Total	**Nil**					

4. B. Achievements on technologies Assessed and Refined

4. B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Integrated Nutrient Management	Paddy	Micronutrient mixture for rainfed rice	4	4	3
	Chilli	Soil test based IPNS in chilli.	2	2	2
	Pulses	Assessment of pulse wonder in rainfed blackgram	4	4	3
Varietal Evaluation	Red gram	Performance evaluation of redgram varieties	5	5	3
	Castor	Performance evaluation of Castor	5	5	2
Integrated Crop Management	Paddy	Management of water logging and salinity Conditions in rainfed rice	5	5	3
	Coconut	Intercropping in coconut gardens	10	10	2
Integrated Disease Management					
Weed Management	Paddy	Assessment of mechanical weeding	5	5	2
Total			**40**	**40**	**20**

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
Total	NIL				

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
Production and management	Cow	Management of infertility in cross breed cows	20	20
Total			20	20

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Total	NIL			

4. C1. Results of Technologies Assessed

On Farm Trial -1

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Coconut	Rainfed/ Supplemental irrigation	Micronutrient deficiency	Micronutrient mixture for Rainfed Rice	5	TO 1 – Improper application of micronutrients TO 2 – Application of Micronutrient mixture (ZnSO4@25 kg/ha and FeSO4 @50 kg/ha) TO 3 – Application of Enriched Micronutrient mixture (ZnSO4@12.5 kg/ha and FeSO4 @25 kg/ha)	1.Plant height in cm 2. Number of productive tillers/panicle 3. Panicle length (cm) 4. Grain yield 5. Economics

Contd...

Technology Options	Data on the parameter			
	8			
	Plant height	Number of	Panicle	Grain yield

	(cm)	productive tillers/panicle	length (cm)	(kg/ha)
TO 1 – Improper application of micronutrients	88.4	6.54	19.27	2712
TO 2 – Application of Micronutrient mixture (ZnSO4@25 kg/ha and FeSO4 @50 kg/ha)	90.2	8.05	23.45	2972
TO 3 – Application of Enriched Micronutrient mixture (ZnSO4@12.5 kg/ha and FeSO4 @25 kg/ha)	92.0	8.57	26.1	3108

Contd...

Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	**10**	**11**	**12**
TO 3 – Application of Enriched Micronutrient mixture (ZnSO4@12.5 kg/ha and FeSO4 @25 kg/ha)	Most of the farmers willing to use enrich the micronutrient mixture	-	-

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
TO 1 – Improper application of micronutrients		2712	Kg/ha	5714	1:1.7
TO 2 – Application of Micronutrient mixture (ZnSO4@25 kg/ha and FeSO4 @50 kg/ha)	TNAU, Coimbatore	2972	Kg/ha	10552	1:2.3
TO 3 – Application of Enriched Micronutrient mixture (ZnSO4@12.5 kg/ha and FeSO4 @25 kg/ha)	TNAU, Coimbatore	3108	Kg/ha	12728	1:3.3

On Farm Trial -2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Pulses	Rainfed	1.Nutrient deficiency 2. Flower dropping 3. Low yield	Assessment of the performance of PULSE WONDER in rainfed black gram	5	TO1 – Improper application of foliar spray TO2 – Foliar spray of DAP 2% and NAA 40 ppm at flowering stage and 15 days after first spray TO3 – Foliar spray of Pulse wonder @ 6.25 kg /ha and 40 ppm at flowering stage and 15 days after first spray	1. Number of pods/plant 2. Number of grains/pod 3. Grain yield 4.Economics

Contd...

Technology Options	Data on the parameter		
	8		
	Number of pods/plant	Number of grains/pods	Grain yield (kg/ha)
TO 1 – Improper application of foliar spray	8.5	3.5	288
TO 2 – Foliar spray of DAP 2% and NAA 40 ppm at flowering stage and 15 days after first spray	9.5	3.9	360
TO 3 – Foliar spray of Pulse wonder @ 6.25 kg /ha and 40 ppm at flowering stage and 15 days after first spray	11.4	4.8	422

Contd…

Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	10	11	12
TO 3 – Foliar spray of Pulse wonder @ 6.25 kg /ha and 40 ppm at flowering stage and 15 days after first spray	Most of the farmers willing to use Pulse wonder	-	-

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
TO 1 – Improper application of foliar spray		288	Kg/ha	5264	1:1.52
TO 2 – Foliar spray of DAP 2% and NAA 40 ppm at flowering stage and 15 days after first spray	TNAU, Coimbatore	360	Kg/ha	7080	1:1.73
TO 3 – Foliar spray of Pulse wonder @ 6.25 kg /ha and 40 ppm at flowering stage and 15 days after first spray	TNAU, Coimbatore	422	Kg/ha	9366	1:1.86

On Farm Trial -3

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Chilli	Rainfed	1.Nutrient deficiency 2. Improper application of fertilizers 3. Low fertility of soil	Soil test based IPNS(Integrated Plant Nutrient System) in chilli	5	TO1 – Farmers practice TO2 – Recommended dose of NPK TO3 – Soil test based fertilizer recommendation	1.Plant height (cm) 2. Number of branches/plant 3. Dry pod yield per plant 4. Yield 5. Economics

Contd...

Technology Options	Data on the parameter			
	8			
	Plant height (cm)	Number of branches/plant	Dry pod yield per plant(kg)	Yield (kg/ha)
TO 1 – Farmers practice	40.4	6.1	22.2	1002
TO 2 – Recommended dose of NPK	56.5	9.2	33.5	1520
TO 3 – Soil test based fertilizer recommendation	76.2	13.2	45.3	1705

Contd...

Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	10	11	12
TO 3 – Soil test based fertilizer recommendation	Most of the farmers willing to follow the Soil test based fertilizer recommendation	-	-

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
TO 1 – Farmers practice		1002	Kg/ha	30120	1:2.0
TO 2 – Recommended dose of NPK	TNAU, Coimbatore	1520	Kg/ha	56200	1:2.6
TO 3 – Soil test based fertilizer recommendation	TNAU, Coimbatore	1705	Kg/ha	69300	1:3.1

On Farm Trial -4

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7

Coconut	Rainfed/Supplemental irrigation	Under utilization of interspaces in coconut gardens	Assessment of intercropping in coconut gardens	5	Intercropping with Guinea grass and Desmanthus	1.Intercrop yield (t/ha)

Contd…

Data on the Parameter		**Results of Assessment**
8		**9**
Technological Options	Intercrop yield	T2 performed well and recorded higher yield.
Technology option 1 (Farmer's practice) No intercrop		
Technology option 2 Intercropping with Guinea grass	-	
Technology option 3 Intercropping with Desmanthus	-	

Contd…

Feedback from the farmer	**Any refinement done**	**Justification for refinement**
10	**11**	**12**
Intercropping with Guinea grass resulted in increased income to the farmer.	-	-

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) No intercrop	-				
Technology option 2 Intercropping with Guinea grass	TNAU, Coimbatore	186	T/ha	186000	4.2:1
Technology option 3 Intercropping with Desmanthus	TNAU, Coimbatore	55	T/ha	110000	3.4:1

On Farm Trial -5

Crop/ enterprise	**Farming situation**	**Problem definition**	**Title of OFT**	**No. of trials**	**Technology Assessed**	**Parameters of assessment**
1	**2**	**3**	**4**	**5**	**6**	**7**

Red gram	Rainfed/ Supplemental irrigation	Low yield due to unaware of high yielding varieties and hybrids	Performance Evaluation of red gram varieties	5	T1:APK1with100% RDF T2:VBN (Rg) 3 with100% RDF T3:CO(Rg)7 With 100%RDF	Growth and yield attributes

Contd...

Technology Options	**Data on the parameter**			
	8			
	Plant height (cm)	**Number of pods/plant**	**No of grains/pod**	**Grain yield (kg/ha)**
T1:APK1with100% RDF	Crop is sown in March 2011 only			
T2:VBN (Rg) 3 with100% RDF				
T3:CO(Rg)7 With 100%RDF				

Contd...

Results of assessment	**Feedback from the farmer**	**Any refinement needed**	**Justification for refinement**
9	**10**	**11**	**12**
-	-	-	-

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
-	-	-	-	-	-

On Farm Trial -6

Crop/ enterprise	**Farming situation**	**Problem definition**	**Title of OFT**	**No. of trials**	**Technology Assessed**	**Parameters of assessment**
1	2	3	4	5	6	7
Rice	Rainfed/ Supplemental irrigation	Low yield and stunted growth due to Water logging and salinity in rainfed rice	Management of water logging and salinity conditions in rainfed rice	5	T1:Farmers practice T2:Application of Gypsum @ 1 ton/ha before sowing of rice T3:Application of Gypsum prior to rice sowing + daincha sowing in germinated rice fields + *insitu* incorporation of daincha at 1st weeding	Growth and yield attributes

Contd...

Technology Options	Data on the parameter		
	8		
	Number of tillers/hill	Panicle length (cm)	Yield (kg/ha)
T1:Farmers practice	14	14	4082
T2:Application of Gypsum @ 1 ton/ha before sowing of rice	15	15	4678
T3:Application of Gypsum prior to rice sowing + daincha sowing in germinated rice fields + *insitu* incorporation of daincha at 1st weeding	14	16	5124

Contd..

Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	10	11	12
T3:Application of Gypsum prior to rice sowing + daincha sowing in germinated rice fields + *insitu* incorporation of daincha at 1st weeding	Most of the farmers willing to Apply Gypsum as reclamation for salinity and raising daincha is the skillful technology in rainfed situation	-	-

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
T1:Farmers practice		4082	Kg/ha	16738	1:1.8
T2:Application of Gypsum @ 1 ton/ha before sowing of rice	TNAU	4678	Kg/ha	20102	1:2.1
T3:Application of Gypsum prior to rice sowing + daincha sowing in germinated rice fields + *insitu* incorporation of daincha at 1st weeding	TNAU	5124	Kg/ha	23116	1:2.3

On Farm Trial -7

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7

Rice	Rainfed/Supplemental irrigation	Low yield due to improper intercultural field operations	Assessment of efficient mechanical weeding	5	T1:Rotary weeder T2:Cono weeder T3:Using multi row weeder (TNAU)	Growth and yield attributes

Technology Options	**Data on the parameter**		
	8		
	Number of tillers/hill	**Panicle length (cm)**	**Yield (kg/ha)**
T1:Rotary weeder	12	14	3431
T2:Cono weeder	13	14	4149
T3:Using multi row weeder (TNAU)	13	13	3849

Contd...

Results of assessment	**Feedback from the farmer**	**Any refinement needed**	**Justification for refinement**
9	**10**	**11**	**12**
T2: Cono weeder T3: Using multi row weeder (TNAU)	Most of the farmers willing to use Cono weeder and multi row weeder for its efficiency and easy handling	Instead of hand operated weeders, battery operated or motorized weeders can be tested	Working in manual operated weeders are time consuming and laborious than power operated weeders

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
T1:Rotary weeder	TNAU	**3431**	Kg/ha	15879	1:2.1
T2:Cono weeder	TNAU	**4149**	Kg/ha	19341	1:2.1
T3:Using multi row weeder (TNAU)	TNAU	**3849**	Kg/ha	14641	1:1.7

On Farm Trial -8

Crop/ enterprise	**Farming situation**	**Problem definition**	**Title of OFT**	**No. of trials**	**Technology Assessed**	**Parameters of assessment**
1	2	3	4	5	6	7

Castor	Rainfed/ Supplemental irrigation	Low yield due to unaware of high yielding varieties and hybrids	Performance Evaluation of Castor varieties/hybrids	5	T1:TMV 6 T2:TMVCH 1 T3:DCH 32	Growth and yield attributes

Contd..

Technology Options	**Data on the parameter**			
	8			
	Plant height (cm)	**Number of pods/plant**	**No of grains/pod**	**Grain yield (kg/ha)**
T1: TMV 6	Crop is sown in March 2011 only			
T2: TMVCH 1				
T3: DCH 32				

Contd..

Results of assessment	**Feedback from the farmer**	**Any refinement needed**	**Justification for refinement**
9	**10**	**11**	**12**

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

On Farm Trial -9

Crop/ enterprise	**Farming situation**	**Problem definition**	**Title of OFT**	**No. of trials**	**Technology Assessed**	**Parameters of assessment**
1	**2**	**3**	**4**	**5**	**6**	**7**
Animal Husbandry (cow)	Rainfed	Improper management of milch cows leading to infertility	Management of infertility in cross breed cows	20 animals	Estrus synchronization with PGF 2 Alpha and Aritificial insemination after 72 hours	Observation of estrum Feed consumption ratio

Contd…

Data on the Parameter	**Results of Assessment**

8		9
Technological Options	Intercrop yield	T-3 performed well and gave expected results.
Technology option 1 (Farmer's practice) Repeated artificial insemination	NA	
Technology option 2 –Mineral mixture @ 50 gm / day for 3 months and artificial insemination	NA	
Technology option 3 - Estrus synchronization with PGF 2 Alpha and Aritificial insemination after 72 hours	NA	

Contd…

Feedback from the farmer	Any refinement done	Justification for refinement
10	**11**	**12**
Estrus synchronization with PGF 2 Alpha and Aritificial insemination after 72 hours yielded satisfactory result	NA	NA

Contd...

Technology Assessed	Source of Technology	Production (Milk)	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) Repeated artificial insemination	-	-	-	-	-
Technology option 2 – Mineral mixture @ 50 gm / day for 3 months and artificial insemination	TANUVAS	-	-	-	-
Technology option 3 - Estrus synchronization with PGF 2 Alpha and Aritificial insemination after 72 hours	TANUVAS	9	Lit/animal	31,500 per/year	2.4:1

1. **C2. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details**

On Farm Trial-1

1	Title of the technology assessed	:	Micronutrient mixture for Rainfed Rice
2	Problem definition Zone	:	A. Micronutrient deficiency B. Low yield
3	Details of technologies for assessment Production System	:	TO 1- Improper Application of Micronutrient mixture TO2 - Application of Micronutrient mixture ($ZnSO_4$@25kg/ha and $FeSO_4$ @50 kg/ha) TO 3 – Application of Enriched Micronutrient mixture ($ZnSO_4$@12.5 kg/ha and $FeSO_4$ @25kg/ha)
4	Source of technology	:	Tamil Nadu Agricultural University
5	Production system and thematic area		Rainfed cultivation and Paddy
6	Performance of the Technology with Performance indicators	:	1. Plant height (cm)- 92 2. Number of productive tillers/panicle – 8.57 3. Panicle length (cm) – 26.1 4. Grain yield (kg/ha) – 3108 5.BC ratio – 1:3.3
7	Feedback, matrix scoring of various technologies	:	Farmers are interested to use enriched micronutrients to enhance the yield
8	Final recommendation for micro level situation	:	Application of Enriched Micronutrient mixture ($ZnSO_4$@12.5 kg/ha and $FeSO_4$ @25kg/ha)
9	Constraints identified and feedback for research	:	Salt & Drought tolerant high yielding variety may be suggested
10	Process of farmers participation and their reaction	:	Farmers are interested to use enriched micronutrients and satisfied with their yield

On Farm Trial-2

1	Title of the technology assessed	:	Assessment of the performance of PULSE WONDER in rainfed black gram
2	Problem definition Zone	:	A. Nutrient deficiency B. Low fertility status of soil C. Low yield.
3	Details of technologies for assessment Production System	:	TO 1-Improper application of foliar spray TO 2 - Foliar spray of DAP 2% and NAA 40 ppm at flowering stage and 15 days after first spray TO 3 – Foliar spray of Pulse wonder @ 6.25 kg /ha and40 ppm at flowering stage and 15 days after first spray
4	Source of technology	:	Tamil Nadu Agricultural University
5	Production system and thematic area		Rainfed, Nutrient deficiency
6	Performance of the Technology with Performance indicators	:	1. Number of pods/plant- 11.4 2. Number of grains per plant – 4.8 3. Grainyield (kg/ha) - 422 4. BC ratio - 1:1.86
7	Feedback, matrix scoring of various technologies	:	Farmers are interested to use Pulse wonder to enhance the yield
8	Final recommendation for micro level situation	:	Application of Foliar spray of Pulse wonder @ 6.25 kg /haand 40 ppm at flowering stage and 15 days after first spray
9	Constraints identified and feedback for research	:	Soil test based fertilizer recommendation
10	Process of farmers participation and their reaction	:	Farmers are interested to use Pulse wonder and satisfied with their yield

On Farm Trial-3

1	Title of the technology assessed	:	Soil test based IPNS (Integrated Plant Nutrient System) in chilli
2	Problem definition Zone	:	A. Micronutrient deficiency B. Low yield
3	Details of technologies for assessment Production System	:	TO 1-Farmers practice TO 2 - Recommended dose of NPK TO 3 - Soil test based fertilizer recommendation
4	Source of technology	:	Tamil Nadu Agricultural University
5	Production system and thematic area		Rainfed cultivation and Nutrient deficiency
6	Performance of the Technology with Performance indicators	:	1. Plant height (cm)- 76.2 2. Number of productive tillers/panicle – 13.2 3. Dry pod yield per plant (kg) - 45.3 4. Grain yield (kg/ha) – 1705 5.BC ratio – 1:3.1
7	Feedback, matrix scoring of various technologies	:	Farmers are interested to follow the soil test based fertilizer application
8	Final recommendation for micro level situation	:	Soil test based fertilizer recommendation
9	Constraints identified and feedback for research	:	Salt & Drought tolerant high yielding variety may be suggested
10	Process of farmers participation and their reaction	:	Farmers are interested to follow the soil test based fertilizer application for all the crops

On Farm Trial-4

1	Title of the technology assessed	:	Assessment of intercropping in coconut gardens
2	Problem definition Zone	:	Under utilization of interspaces in coconut gardens
3	Details of technologies for assessment Production System	:	Technology option 1 : Farmer's practice (No intercrop) Technology option 2 : Intercropping with Guinea grass Technology option 3 : Intercropping with Desmanthus
4	Source of technology	:	Tamil Nadu Agricultural University
5	Production system and thematic area		Rainfed/Supplemental irrigation and additional income generation
6	Performance of the Technology with Performance indicators	:	Intercrop yield - Guinea grass – 186 t/ha & Desmanthus – 55t/ha
7	Feedback, matrix scoring of varioutechnologies parameters done through farmer's participation / other scoring techniques	:	Intercropping in coconut gardens with Guinea grass and Desmanthus resulted in effective utilization of the interspaces and additional income generation to the farmers
8	Final recommendation for micro level situation	:	TO 2 is recommended
9	Constraints identified and feedback for research	:	Nil
10	Process of farmers participation and their reaction	:	Farmers intensively involved themselves in cultivating fodder grass *viz.,* Guinea grass and Desmanthus in the interspaces of the coconut garden and were highly satisfied with the additional income generated by intercrop cultivation

On Farm Trial -5

1	Title of the On Farm Trial	:	Performance Evaluation of red gram varieties (APK 1, VBN (Rg) 3 and Co(Rg) 7)
2	Agro-Ecological Zone	:	Coastal
3	Production System	:	Semi dry
4	Problem identified	:	Low yield due to unaware of high yielding varieties and hybrids
5	Number of farmers and area affected in the operational villages	:	100 farmers and 100 ha
6	Thrust areas	:	Practicing of cultivation of high yielding varieties and hybrids and proper agronomic management in time.
7	Rationale for proposing the OFT	:	➢ To evaluate the high yielding varieties and hybrids suitable for Ramanthapuram district (coastal saline areas) ➢ To maximize the redgram yield
8	Technology 1	:	APK1with100% RDF
9	Technology 2	:	VBN (Rg) 3 with100% RDF
10	Technology 3	:	CO(Rg)7 With 100%RDF

On Farm Trial -6

1	Title of the On Farm Trial	:	Management of water logging and salinity conditions in rainfed rice
2	Agro-Ecological Zone	:	Coastal
3	Production System	:	Rain fed
4	Problem identified	:	Low yield and stunted growth due to Water logging and salinity in rainfed rice
5	No. of farmers and area affected in the operational villages	:	50 farmers and 100 ha
6	Thrust areas	:	In ramanathapuram district a patch of places are under water logging during rainy season and having salinity problem.
7	Rationale for proposing the OFT	:	The farmers face prolonged water logging situation very often during early and late growing period of rice. Farmers are unaware water logging and resistant rice varieties. Hence management practices to overcome the said problems are need to be practiced.
8	Technology 1	:	Farmers practice
9	Technology 2	:	Application of Gypsum @ 1 ton/ha before sowing of rice
10	Technology 3	:	Application of Gypsum prior to rice sowing + daincha sowing in germinated rice fields + *insitu* incorporation of daincha at 1st weeding

On Farm Trial -7

1	Title of the On Farm Trial	:	Assessment of efficient mechanical weeding
2	Agro-Ecological Zone	:	Coastal
3	Production System	:	Semi dry
4	Problem identified	:	Low yield due to improper intercultural field operations
5	Number of farmers and area affected in the operational villages	:	500 farmers and 1000 ha
6	Thrust areas	:	Practicing of cultivation of semi dry rice with seed drill sowing and using the weeders for weeding and inter cultivation operations.
7	Rationale for proposing the OFT	:	➢ To evaluate the performance of weeders in seed drill sown semi dry rice cultivation in Ramanthapuram district ➢ To maximize the rice yield
8	Technology 1	:	Rotary weeder
9	Technology 2	:	Cono weeder
10	Technology 3	:	Using multi row weeder (TNAU)

On Farm Trial -8

1	Title of the On Farm Trial	:	**Performance evaluation of castor**
2	Agro-Ecological Zone	:	Coastal
3	Production System	:	Semi dry
4	Problem identified	:	Low yield due to unawareness of high yielding varieties and hybrids
5	Number of farmers and area affected in the operational villages	:	50 farmers and 100 ha
6	Thrust areas	:	Cultivating castor as border crop and bund crop. There is no sole crop cultivation is practiced. There is no high yielding varieties and hybrids are cultivating
7	Rationale for proposing the OFT	:	➢ To evaluate the performance of castor varieties and hybrids ➢ To maximize the castor yield
8	Technology 1	:	TMV 6
9	Technology 2	:	TMVCH 1
10	Technology 3	:	DCH 32

On Farm Trial-9

1	Title of the technology assessed	:	Management of infertility in cross breed cows
2	Problem definition Zone	:	Improper management of milch cows leading to infertility
3	Details of technologies for assessment Production System	:	Technology option 1 : (Farmer's practice) Repeated artificial insemination Technology option 2 : Mineral mixture @ 50 gm / day for 3 months and artificial insemination Technology option 3 : Estrus synchronization with PGF 2 Alpha and Aritificial insemination after 72 hours
4	Source of technology	:	TANUVAS
5	Production system and thematic area		Rainfed/Management of infertility in cow for good milk yield and income
6	Performance of the Technology with Performance indicators	:	a) Observation of estrum : After treatment showed normal setting of heat and signs of estrum (heat period) b) Milk yield – 9 lit/animal/day c) Feed consumption ratio- Found satisfactory (Before : Green 25 kg: Dry 10 kg : Roughage 3 kg) (After : Green 30 kg: Dry 15 kg : Roughage 4 kg)
7	Feedback, matrix scoring of various technologies	:	Estrus synchronization with PGF 2 Alpha and Artificial insemination after 72 hours showed satisfactory results and farmers were convinced by the overall result
8	Final recommendation for micro level situation	:	T-3 is recommended
9	Constraints identified and feedback for research	:	Nil
10	Process of farmers participation and their reaction	:	Farmers intensively involved themselves in carrying out the trials

PART V - FRONTLINE DEMONSTRATIONS

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

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for short fall in achievement
									Proposed	Actual	SC /ST	Others	Total	
1.	Oil seeds	Rainfed	Rabi 2010-11	Gingelly	TMV (sv)7	--	introduction	Varietal introduction with INM	2.5	2.5		10	10	--
2.	Cereals	Rainfed	Rabi 2010-11	Paddy	ADT 43	---	Pest Incidence	IPM–stem borer	10	10	5	20	25	--
		Rainfed	Rabi 2010-11	Paddy	ADT 43	---	Pest Incidence	IPM –BPH	5	5	3	9	12	--
		Rainfed	Rabi 2010-11	Paddy	Anna 4	---	Introduction	popularization of Anna4rice variety	10	10		10	10	
		Rainfed	Rabi 2010-11	Paddy	---	CoR H 3	Introduction	Popularization of Co R (H)3 rice Hybrid in the district	10	10	5	5	10	--
3.	Vegetables	Rainfed/Supplemental irrigation	Sept-oct 2010	Chilli	KKM (Ch)1	-	Integrated crop management practices	Integrated crop management practices for chilli –	5	5	-	20	20	-

								KKM(Ch)1						
		Rainfed/ Supplemental irrigation	Sept-oct 2010	Snake gourd	CO 2	-	Introduction of high yielding varieties/ hybrids	Varietal introduction of snakegourd – CO 2	5	5	-	20	20	-
4.	Banana	Irrigated	2010	banana	Nattu valai	-	Post Harvest management of Banana	1. Banana Bunch Cover 2. Banana Comb Cutter	2 20 No	2 20 No	5	25	35	Nil
5.	Plantation	Rainfed	Through out the year 2010-11	Coconut	Tall	-	Integrated Nutrient Management	Micronutrient mixture for coconut	2	2	-	10	10	-
6.	Dairy	Rainfed	2010-2011	Calves	-	-	Mineral supplementation	Popularisation of salt lick mineral cakes for calves	80	80	36	44	80	-
7.	Others (specify) Vegetable Preservator.	--	--	Chilli	---	---	Popularization of CRIDA Vegetable Preservator for Extending the Shelf life of Chillies	Vegetable preservator	5	6	-	6	6	

8.	Fisheries	---	--	Fish	----	---	Post Harvest manage ment of fish	Fish insulation bag	10	10	-	10	10	
	TOTAL													

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

S. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Status of soil			Previous crop grown
									N	P	K	
1.	Oilseeds	Rainfed	Rabi2009-2010	Gingelly	TMV 7	-	Integrated crop management practices	Varietal introduction with INM	L	M	H	Fallow
2.	Cereals	Rainfed	Rabi 2010-11	Paddy	ADT 43	---	Pest Incidence	IPM –Stem borer	L	M	H	Paddy
		Rainfed	Rabi 2010-11	Paddy	ADT 43	---	Pest Incidence	IPM –BPH	L	M	H	Paddy
		Rainfed	Rabi 2010-11	Paddy	Anna 4		Integrated crop management practices	Varietal introduction	L	M	H	Paddy
		Rainfed	Rabi 2010-11	Paddy	--	CoRH3	Integrated crop management practices	Hybrid introduction	L	M	H	Paddy
3.	Vegetables	Rainfed/Supplemental irrigation	Sept – Oct 2010	Chilli	KKM (Ch)1	-	Integrated crop management practices	Intergrated crop management practices in	L	M	H	Brinjal

								KKM (Ch)1				
		Rainfed/Supplemental irrigation	Sept – Oct 2010	Snakegourd	CO 2	-	Introduction of high yielding varieties/hybrids	Varietal introduction of snakegourd – CO 2	L	M	H	Fallow
4.	Fruit - Banana	Irrigated	2010	banana	Nattu valai	-	Post Harvest management of Banana	1.Banana bunch Cover 2. Banana Comb Cutter	L	M	H	Banana
5.	Plantation	Rainfed	Throughout the year 2010-11	Coconut	Tall	-	Integrated Nutrient Management	Micronutrient mixture for coconut	L	M	H	Coconut

5. B. Results of Frontline Demonstrations

5. B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha) Nuts/yr/ha				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds	Varietal introduction with INM	TMV 7	-	Rainfed	10	2.5	3.55	3.01	3.48	2.21	57	6500	11484	4984	1:1.77	5520	7293	1773	1:1.32
Rice	Integrated pest management yellow stem borer	ADT 43	-	Rain fed	25	10	4.52	3.74	4.13	3.40	21.47	22000	44604	22604	1:2.02	24500	36720	12220	1:1.49
	Integrated pest management BPH	ADT 43	-	Rain fed	12	5	4.3	3.4	3.85	3.2	20.31	21000	41580	20580	1:1.98	23000	34560	11560	1:1.50
	Popularization of Anna 4 Rice variety in Ramanathapuram district	Anna 4		Rainfed/supplemental irrigation	10	10	45.1	37.6	40.5	27.2	48.8	18000	32364	14364	1:1.8	15000	21744	6744	1:1.4

Rice	Popularization of CoRH 3 Rice Hybrid in the district		CoRH 3	Rainfed/supplemental irrigation	10	10	52.7	45.2	50.2	31.2	60.8	22000	60278	38278	1:2.7	15000	24936	9936	1:1.7
Vegetables	Integrated crop management practices in KKM (Ch)1	KKM (Ch) 1	-	Rainfed/ Supplemental irrigation	20	5	16.75	11.23	14.6	8.25	76.9	42000	146000	104000	3.5:1	31200	82500	51300	2.6:1
	Varietal introduction of snakegourd – CO 2	CO 2	-	Rainfed/ Supplemental irrigation	20	5	200	162	175	122	43.4	37200	87500	50300	2.35:1	28000	48800	20800	1.73:1
Banana	1.Banana Bunch Cover	Nattu Valai	-	Irrigated	10	2	600	350	450	450	11.1	60500	240000	179500	1:3.9	45750	160000	114250	1:3.5
Plantation	Micronutrient mixture for coconut	Tall	-	Rainfed	10	2	17210	12132	13121	7552	73	30152	65605	35453	1:2.18	20152	37760	17608	1:1.87
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

H – Highest Yield, L – Lowest Yield A – Average Yield

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

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

5. B.2. Livestock and related enterprises

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (q/ha)				% Increase	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Dairy	Salt lick mineral cake for calves	Calf	80	80 calves	-	-	-	-	3-4 kg increase in body weight., No change with respect to parasite load	Rs.50 per calf	-	-	-	-	-	-	-

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

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

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

5. B.3. Fisheries

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

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

H-High L-Low, A-Average

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

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

5. B.4. Other enterprises

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

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

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

5. B.5. Farm implements and machinery

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check			Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
CRIDA Vegetable Preservator	Rs.2950	Vegetable Preservator Capacity -50 kg	6 nos	300 kg Vegetables / batch	-	-	-	-	1050	1250	200	1:1.9	750.8	846	95.2	1:1.2

Insulated Fish Bag	Rs.1000	Insulated Fish bag Capacity- 25 kg	10 Nos	250kg Fish / batch	-	-	-	-	19750	22500	2750	1:1.3	26250	27720	14750	1:1.2
Banana Comb Cutter	Rs.150	Banana Comb Cutter	20 Nos	8 ha	-	-	-	-	45750	160000	114250	1:3.5	45750	140800	95050	1:3

* 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

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

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

5. B.6.2 Production technology demonstrations

Performance of demonstrations

Farming situation	Technology Demonstrated	Area (ha)	No.of demo.	Variety	Hybrid	Yield (q/ha)		% Increase	Economics of demonstration (Rs./ha)				Economics of local check (Rs./ha)			
						Demo	Local		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
-	-	-	-	-	-	-	-	--	-	-	-	-	-	-	-	-

-

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

Category	Farming situation	Technology Demonstrated	Area (ha)	No.of demo.	Variety	Hybrid	Yield (q/ha)		% Increase	Economics of demonstration (Rs./ha)				Economics of local check (Rs./ha)			
							Demo	Local		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR

5. B.6.3 Integrated pest management demonstrations

Farming situation	Variety	Hybrid	No. of blocks	Total No. of Demo.	Area (ha)	Incidence of pest and diseases (%)			Seed Cotton Yield (q/ha)			Economics of demonstration (Rs./ha)				Economics of local check (Rs./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 implement	Area (Ha)	No. of Demo.	Name of the technology demonstrated	Labour requirement for operation (Rs./ha)		
				Demo	Local check	% change
-	-	-	-	-	-	-

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

Extension activity	No. of Programmes	Participants			SC/ST		
		Male	Female	Total	Male	Female	Total
-		-	-	-	-	-	-

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

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1	Banana	1.Banana Bunch Cover 2.Banana Comb Cutter	The bunch Weight increases up to 1-1.5 kg . There by yield increased to 4 tons /acre. The bunch matures12 -15days before the regular maturity.
2	Chillies	Vegetable Preservator	Shelf life of the chilli extended upto 10 days.

3.	Fish	Insulated Fish Bag	Shelf life of Fish, Prawn extended up to 12 hours. Instead of Keeping ice and Fish in alternate layer, the Fish can be covered with only 5 kg of ice in the top, which also retains the cooling and freshness of Fish is maintained.
4	Gingelly	Varietal introduction with INM (TMV 7)	Application of micronurtrient fertilizer, CCP along with inorganic fertilizers enhances yield and fruit size.
5	Coconut	Micronutrient mixture for coconut	Application of Micronutrient mixture increases the yield and reduce the button shedding
6	Chilli	Integrated crop management practices in KKM (Ch)1	This variety performed well and yielded high when compared to local Mundu variety in areas with supplemental irrigation.
7	Snake gourd	Varietal introduction of snakegourd – CO 2	Performed better than local variety.
8	Paddy	Integrated pest management for Brown plant hopper	Light trap attracts more number of insects
9	Paddy	Integrated pest management for Yellow Stem borer	Pheromone trap and trichogramma egg card works well in rice eco system
10	Paddy	Popularization of Anna 4 Rice variety in Ramanathapuram district	Anna 4 variety withstands for drought and saline prone areas. It is also resistant to smut diseases and non lodging
11	Paddy	Popularization of CoRH 3 Rice Hybrid in the district	This hybrid yields more than the normal varieties practiced in the district. The preference of this variety is more among the farmers
12	Animal husbandry (calf)	Salt lick mineral cake	performed well for the calves severally affected by mineral deficiency

5. B.6.7 Farmers' reactions on specific technologies

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1.	Banana	1.Banana Bunch Cover 2.Banana Comb Cutter	1. Banana Bunch Cover – The usage of banana bunch Cover increases the quality of fruits and No black spot is noted and the fruit looks brighter than the ordinary one and also. Yield Increases by approximately 1-1.5 kg /bunch. Early maturity is noted. Because of the Attractive appearance of the fruits the bunches fetches high cost. 2. Banana Comb Cutter – The damage of fruits and physical injury due to knife is reduced. The Comb can be easily cut with this cutter and also it is easy to handle by any one.
2.	Chillies	Vegetable Preservator	1. Chillies can be kept fresh up to 10 days. After 10 days the colour of chillies changes to pale green colour. To prevent rat demage the Preservator can be completely covered with iron mesh.
3.	Fish	Insulated Fish Bag	The Cooling of Bag is excellent. The Fish can be Kept in good condition for 12 hours inside the bag. The bag needs slight modification for effective usage 1. The bottom of the bag can be made flat with non foldable material so that it can be carried easily 2. To drain water from the bag a closable plastic seal can be provided.
4	Gingelly	Varietal introduction with INM (TMV 7)	TMV 7 was performed well under rainfed condition.Market price of the white gingelly was high. Farmers are satisfied with their yield.
5	Coconut	Micronutrient mixture for coconut	Button shedding was reduced and size of the nut was increased.
6	Chilli	Integrated crop management practices in KKM (Ch)1	Spraying of triacontanol and planofix reduced the flower and fruit drop and thereby increased the yield. KKM (Ch)1 variety performed better than local Mundu variety and high returns were cherished by the farmers. Farmers are willing to cultivate KKM (Ch)1 in the forthcoming years due to the high price (Rs. 100/ kg) of dry chilli in the market.
7	Snake gourd	Varietal introduction of snakegourd – CO 2	CO 2 variety is highly preferred by the farmers because of the short fruit which makes the transport of the fruit to the market very easy and convenient. Moreover this variety over ruled the local variety in terms of yield. The farmers were highly satisfied with this variety.
8	Paddy	Integrated pest management for Brown plant hopper	Satisfied by the technology demonstrated
9	Paddy	Integrated pest management for Yellow Stem borer	Satisfied by the technology demonstrated
10	Paddy	Popularization of Anna 4 Rice variety in Ramanathapuram district	Satisfied with the yield and resistant to the diseases as well as non lodging
11	Paddy	Popularization of CoRH 3 Rice Hybrid in	The high yield of this hybrid is more preferred. High returns per acre is satisfied to the farmers

		the district	
12	Animal husbandry (calf)	Salt lick mineral cake	Before the administration of salt lick mineral cake to the calves, the calves were severally affected by mineral deficiency and used to lick mud which inturn caused mouth disese and showed passive behaviour of feeding but after giving salt lick mineral cake the calves showed good growth and were active, it completely reduced the licking of mud, hence farmers were satisfied with the demonstaration.

5. B.6.8 Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days	3	66	
2	Farmers Training	13	551	
3	Media coverage	6	Mass	
4	Training for extension functionaries	-	-	

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Cereals Paddy	Popularization of CoRH 3 Rice Hybrid in the district	CoRH 3	10	10	52.7	45.2	50.2	31.2	60.8	22000	60278	38278	1:2.7	15000	24936	9936	1:1.7
Total																	

H-High L-Low, A-Average

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

PART VII. TRAINING

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

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Crop Production										
Production of organic inputs	1	12	9	21	0	0	0	12	9	21
Livestock Production and Management										
Dairy Management	1	24	4	28	-	-	-	24	4	28
Animal Nutrition Management	2	42	6	48	-	-	-	42	6	48
Others (pl.specify)	1	-	30	30	-	-	-	-	30	30
Home Science/Women empowerment										
Value addition	4	-	22	22	5	66	71	5	88	93
Plant Protection										
Integrated Pest Management	4	42	68	110	0	0	0	42	68	110
TOTAL	**13**	**120**	**139**	**259**	**5**	**66**	**71**	**125**	**205**	**330**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Integrated Crop Management	2	21	34	55	0	0	0	21	34	55
Soil and Water Conservation										
Integrated Nutrient Management	5	81	53	134	0	0	0	81	53	134
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	10	10	20	0	0	0	10	10	20
Off-season vegetables										
Nursery raising	1	0	29	29	0	0	0	0	29	29
Protective cultivation	5	92	33	125	37	11	48	129	44	173
Production and Management technology	1	24	0	24	0	0	0	24	0	24
Soil Health and Fertility Management										
Integrated water management	1	13	29	42	0	0	0	13	29	42
Integrated nutrient management	1	5	20	25	0	0	0	5	20	25
Micro nutrient deficiency in crops	1	12	8	20	0	0	0	12	8	20
Livestock Production and Management										
Dairy Management	1	32	0	32	0	0	0	32	0	32
Animal Disease Management	1	0	0	0	33	0	33	33	0	33
Feed and Fodder technology	1	9	16	25	0	0	0	9	16	25
Production of quality animal products	1	31	7	38	0	0	0	31	7	38
Home Science/Women empowerment										
Value addition	4	73	33	106	4	0	4	77	33	110
Plant Protection										
Integrated Pest Management	7	99	65	164	50	14	64	149	79	228
TOTAL	**33**	**502**	**337**	**839**	**124**	**25**	**149**	**636**	**362**	**988**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	0	21	21	0	0	0	0	21	21
TOTAL	**1**	**0**	**21**	**21**	**0**	**0**	**0**	**0**	**21**	**21**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Planting material production	1	20	2	22	0	0	0	20	2	22
TOTAL	**1**	**20**	**2**	**22**	**0**	**0**	**0**	**20**	**2**	**22**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Women and Child care	2	0	40	40	0	0	0	0	40	40
Any other (Agri NGO capacity building)	1	10	10	20	0	0	0	10	10	20
Total	**3**	**10**	**50**	**60**	**0**	**0**	**0**	**10**	**50**	**60**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
-	-	-	-	-	-	-	-	-	-	-
Total										

7. G. Sponsored training Programmes -NIL

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
-	-	-	-	-	-	-	-	-	-	-	-
	Total										

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
	Crop production and management										
1	Value addition	1	2	24	26	0	0	0	2	24	26
2	Vermi-composting	1	5	6	11	4	0	4	9	6	15
3	Mushroom cultivation	2	23	20	43	2	0	2	25	20	45
4	Others (Sea weed cultivation for fisherwomen)	1	0	16	16	0	4	4	0	20	20
	Grand Total	**5**	**30**	**66**	**96**	**6**	**4**	**10**	**36**	**76**	**106**

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including activities of FLD Programmes)

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No.of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day										
Kisan Mela	1			500				10		10
Kisan Ghosthi										
Exhibition	1			500				5		5
Film Show										
Method Demonstrations	37	504	299	803	37	75	112			
Farmers Seminar										
Workshop										
Group meetings	8	143	-	143	32	8	40			
Lectures delivered as resource persons	27	719	395	1114	25	-	25			
Newspaper coverage	21									
Radio talks	6	Mass								
TV talks	17									
Popular articles	2									
Extension Literature	4									
Advisory Services	84	41	6	47	34	3	37	2	-	2
Scientific visit to farmers field	84	211	54	265	13	8	21			
Farmers visit to KVK	38	552	15	567	-	1	1			
Diagnostic visits	43	45	3	48						
Exposure visits	2	138	3	141						
Any Other - Grievances day	7	258	23	281						
Total	**382**	**2611**	**798**	**4409**	**141**	**95**	**236**	**17**		**17**

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

8. 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)	Rice	RMD(R)1	-	0.85	2340/-	3
Total				0.85	2340/-	3

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	Chilli	-	NS 1701	31000	12400	5
	Chilli	Local Mundu	-	9400	2820	2
	Tomato	-	US Agri 618	4000	1600	2
Total				**44,400**	**16,820**	**9**

9. C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others (specify)	Vermi compost	1420	7100	8
	Earth worm	1	400	1
Total		**1421**	**7500**	**9**

9. D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
-	-	-	-	-

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

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

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

(B) Literature developed/published

Item	Title		Authors name	Number
		Studies on Heavy metal	A.Anuratha,R.Krishnasamy and	1

Research papers	1.	contamination in the Industrial areas of Coimbatore city	A.Veeramani	
	2.	Sorption of copper in sewage water irrigated soils of Coimbatore city.	A.Anuratha,R.Krishnasamy,V.P.Duraisami and A.Veeramani	1
	3.	Remediation technology for copper contaminated soils.	A.Anuratha,R.Krishnasamy and V.P.Duraisami	1
	4.	Genetic divergence in *Coleus forskohlii* Briq	C. Kavitha, E. Vadivel, K. Rajamani and C. Thangamani	1
	5.	Effect of Manchurian mushroom tea on rooting and early vegetative growth of Dieffenbachia stem cuttings	C. Kavitha, E. Vadivel, K. Rajamani and C. Thangamani	1
Technical reports				
News letters	KVK -Newsletter		-	100
Technical bulletins				
Popular articles	1.	Kalar Uvar Nilangali Seer Thiruthum Muraigal	A.Anuratha and A.Veeramani Uzhavarin Valarum Velanmai-October,2010-2 (4)	1
	2.	Nellil pochi kolligal atra pochi melanmai	C.Vijayraghavan, Zadda kavitha and A.Veeramani Dinamalar 01.12.2010	1
	3.	Manavariyil Seerana Varumanathiruku Sedi Murungai Sagupadi	C. Kavitha and A.Veeramani Uzhavarin Valarum Velanmai-FEB 2011.	
Extension literature	1	Ipm strategy for rice pests	C.Vijayraghavan and A.Veeramani	1000
	2	Ipm strategy for coconut pests	C.Vijayraghavan and A.Veeramani	1000
	3	Rice Leaf folder Management	C.Vijayraghavan and A.Veeramani	1000
	4	Rice stem borer Management	C.Vijayraghavan and A.Veeramani	1000
Others (Book)	Agro Climatology Priciples And Predictions		V.Ganesaraja,R.Veerapathiranand V.K.Paulpandi	1
	Irrigation Agronomy		V.Ganesaraja,V.K.Paulpandi R.Balasubramanian,T,Myrtle grace K.Balakrishnan	1
TOTAL				

10. B. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD /	Title of the programme	Number

	DVD/ Audio-Cassette)		

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).

1.	Name of the farmer	:	M.Abdul Nabik and M.Zahir Hussain
2.	Address	:	3/7, Kaidemilleth street Perungulam – Post Mandapam block Ramanathapuram district – 623 536.
3.	Phone Number	:	9443301178

Th. M.Abdul Nabik and M.Zahir Hussain S/o. Mohammed Ali aged 55 & 60 years residing at Perungulam village was known to the Krishi Vigyan Kendra, Coastal Saline Research Centre, Ramanathapuram for the past 3 years. He is holding 9 acres, cultivating Gingelly, Maize, Green Gram, Black gram, Groundnut, Watermelon (Hybrid), Coconut and Mango seedlings 175 nos, including all varieties.

The farmer are very progressive and Co-operative in nature. They are very much willing to accept to do all kinds of Research activities in their farm. They are is very risk bearing nature. The FLD programmes on Green gram, Black gram, Groundnut, Gingelly and Maize were conducted. The OFT on Coconut under Integrated Nutrient Management were also carried out. The farmers are very keen to observe and follow the guidelines of the Scientists. The farmers are very much interested to gather the information and also frequently share the same with other farmers. They are very Cosmo politeness nature. Based on the performance of the farmer many developmental schemes appreciated their efficiency and voluntarily sanctioned the schemes. In such a way Department of Horticulture issued 157 mango seedlings under National Horticulture Mission scheme

The farmers underwent the Vocational training in KVK, Ramanathapuram on vermi composting technologies. Then they started vermi compost production unit with a capacity of 500 tones/year. He got the financial aid from the Department of Horticulture under National Horticulture Mission with subsidy. The farmers are very innovative in nature. Because of his continuous effort he developed the fallow lands into productive one. They are very much interested in organic farming. From the total production, 70 percent of the compost was used for their own farming and remaining 30 percent was marketed to the farmers on low cost basis. They are also supplying their compost to the needed farmers and motivated their neighbour farmers viz. Seenithevar, Murugesh, Malik and others to use vermi compost to enahance the production and soil fertility.

They sent their vermi compost manure to the TNAU, Coimbatore to know the nutrient status. Based on the results he tried further to improve the nutrient content by adding Azophos and Rock phosphate.

During our documentation he stated that the vermi compost is very much suitable manure for coastal area to enhance the production and organic matter of the soil. Due to application of vermi compost the yield was increased in Coconut as 25 nuts / tree earlier it was 10 nuts / tree. The size is also increased thereby lead to higher market price that is Rs. 6/nut earlier 3.50 / nut. The other crops like, Groundnut, Green gram, Blackgram and Maize yields comparatively high and further he stated that the crops remain greenish even during summer. So the passerby were wondered and asked the farmers about the way of cultivation methods. Because of their concerted efforts, he was supplied with Mini mobile Sprinkler unit for Groundnut by the Coastal Saline Research Centre, Ramanathapuram under Part II Plan Scheme on free of cost. He told that the unit was very much helpful for the Groundnut cultivation. It facilitates the farmers to have a copious irrigation and continuous cropping which led him to earn additional income

Hence the farmer Th. M. Abdul Nabik, Perungulam, Ramanathapuram was selected as a best farmer for southern region after analyzing his potentiality in farming by the TNAU and then he received the Best farmer Award from Tamil Nadu Agricultural University, Coimbatore during the Farmers' day function for the year 2008-2009, the certificate has been enclosed herewith.

They had introduced hybrid watermelon viz., Mahico which performed well in their soil condition and yield 35 to 40 tons/ac and which was documented by the journalist of Pasumai Vikadan

The economics worked out for the vermicomposting technology is as follows:

1...Fixed Cost

S.No	Particulars	Amount (Rs.)
1.	Vermicompost shed	175000
2.	Sprayer, Motor, Sieve, Packing machine, Weighing balance, Sieving machine	15,000
	(Interest 12% Depreciation 2% for one year for shed)	24500
	(Depreciation 5%, IFC 12% for I year for machineries)	2550
Total Fixed cost		**42050**

2. Vairable cost

S.No	Particulars	Amount (Rs.)
1.	FYM & Compost for 5 cycles Rs.350 / ton	175000
2.	Earth worm for 5 cycles @ Rs.400/ton for 5 ton	2000
3.	Packing cover 500 ton (Rs. 10 / bag): 10000 bags	100000
4.	Labour charges	10000
Total Variable cost		**287000**

3. Cost and return statement

S.No	Particulars	Rs./year
1.	Variable cost	287000
2.	Fixed cost	42050
3.	Total cost	329050

4. Yield

Vermicompost 500 ton/5 cycle/year	500 ton
Total production income @ Rs. 400/ton so far 500 ton 400x5000	Rs. 20,00,000
Profit / year (2000000 – 329050)	Rs. 16,70,950
Benefit cost ratio	**1:6.1**

Inference:

It was drawn from the above result that the training on composting technologies not only motivate the person to start self employment, it also enhances the soil fertility of the farm besides increasing the farm and home income. Hence it paves way for improving the socio-economic status of the farmer in the family, society, etc.

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

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

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

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

- PRA Techniques
- Direct interview method
- Group discussion method
- Feedback mechanism
- Registration on training need

Rural Youth
In Service personnel
Well structured interview schedule
Group discussion

10. G. Field activities

Number of villages adopted: 1
. No. of farm families selected
No. of survey/PRA conducted: 1

10. H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab :

1. Year of establishment : 2005
2. List of equipments purchased with amount :

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

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	682	772	44	17050
Water Samples	279	177	46	2790
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
Total	**961**	**949**	**90**	**19840**

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	**25**	**17**		**625**
Water Samples	**27**	**27**		**270**
Plant samples				
Manure samples				
Others (specify)				
Total	**52**	**44**		**895**

10. I. Technology Week celebration

Period of observing Technology Week: From 30.06.10 to 04.07.10
Total number of farmers visited : 296
Total number of agencies involved : 14
Number of demonstrations visited by the farmers within KVK campus: 4

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies			
Lectures organized	20	166	Crop and live stock technology
Exhibition	1	500	
Film show			
Fair			
Farm Visit			
Diagnostic Practicals			

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Supply of Literature (No.)			
Supply of Seed (q)			
Supply of Planting materials (No.)			
Bio Product supply (Kg)			
Bio Fertilizers (q)			
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited the technology week			

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

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

B. Major area coverage under alternate crops/varieties

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

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
Total			

D. Animal health camps organized

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

E. Seed distribution in drought hit states

State	Crops	Quantity (qtl)	Coverage	Number

			of area (ha)	of farmers
Total				

F. Large scale adoption of resource conservation technologies

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

G. Awareness campaign

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

PART XI. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Mushroom production	296	58	Nil	2500 to10000/year
Vermi compost	236	35	5000	25000 to 2000000
Food processing	173	82	nil	40000

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)

A. Mushroom Production

Sl.No.	Entrepreneurs name and address	Production Capacity	Income (Rs.) 5 cycle/year
1	Dr. S. Sundararajan Ayyanar Trust, 3/622-A7, Bagavathsingh Road Paramakudi. Ph. No.: 04564 222009 Size: 50 members of SHGs	15 to 20 kg / cycle	10000
2	Tmt. N. Rajalakshmi SHG : Vinmeen Mahalir Mandram Size : 20 members	5 – 10 kg/cycle	5000

3	Tmt. Snehalatha & Tmt. Veeramani SHG : Srimanjanamari Mahalir Mandram Size : 20 members	5 – 10 kg/ cycle	5000
4	Tmt. S. Kavitha, SHG : Kuberan Mahalir Mandram Size : 20 members	5 – 10 kg/ cycle	5000
5	Tmt. S. Inul Ariba, SHG : Pasumai Nila Size : 20 members	5 – 10 kg/ cycle	5000
6	Th. Jawahar Sathik, Keelakarai	5-10 kg/ cycle	5000
7	Tmt. Bhuvaneswari, Pirappanvalasai	15 kg/ cycle	7500
8	Th. Murugaboopathi & Arunachalam Check Post, PattinamKathan Ph.:9344510617	15 kg/ cycle	7500
10	Tmt. M. Muthurani W/o. J. Muthukrishnan Marudhupandiyar 3rd street Bharathi Nagar, Ramanathapuram	5 kg/ cycle	2500
11.	Tmt. K. Sudha W/o. P. Kannan 3/3198, Kannankoil street Pattinamkathan	10-15 kg/ cycle	7500
12.	Tmt. E. Ranithabethal W/o. Edward 2/66 C, Thamizhar street Sitharkottai 9894894480	5-10 kg/ cycle	5000
13.	Tmt. J. Lathipa Begam W/o. M. Janinutheen 3/611, North Street, Vedhalai Mandapam	2-3 kg/ cycle	1500
14.	Tmt. W/o. S. Muthuramalingam Sathanur (Post) Pambur (via) , Muthukulathur (Tk) Ramnad – District	5 kg/ cycle	2500
15.	Tmt. N. Shanthi W/o. Nagarajan Puzhuthikulam, Sathanur Post, Pambur (Via) Muthukulathur (Tk) Ramanathapuram (Dt)	5 kg/ cycle	2500
16.	Tmt. S.V. Nishan W/o. Sultan 21/59, M.S.P Quarters Kizhakkarai	5 kg/ cycle	2500
17.	Tmt. R. Lavanya W/o. Rathinakumar 19, Barathi Street Ramnad	5 kg/ cycle	2500
18.	Tmt. P. Vanitha W/o. Prabhakran 28, Bharathiyar Street Velipattinam Ramanathapuram	5 kg/ cycle	2500

B. Vermi compost production

S.No	Entrepreneurs name and address	Production capacity tons/cycle	Income (Rs.) 5 cycle/year
1.	Dr. S. Sundararajan Sri Meenakshi Educational and Development Organisation 3/622-A7, Bagavathsingh Road Paramakudi. Ph. No.: 04564 222009	8	200000
2	Mr. A. Ramu Usilanakottai, Thondi Ramanathapuram. Ph.: 9865358642	6	30000
3	Mr. M. Abubakkar Thondi – 623 409. Ph.: 9443204316	40	1000000
4	Mr. K. Velu 1/1869 Police colony Pattinamkathan Post, Ramanathapuram	1	25000
5	Dr. S. Sundararajan Sri Meenakshi Educational and Development Organisation 3/622-A7, Bagavathsingh Road Paramakudi. Ph. No.: 04564 222009	8	200000
6	Community Polytechnic, MSPC, Keelakarai, Ramanathapuram. Ph. No.04567 244776	75	1875000
7	Mrs. J. Jeshumari Michael Pattinam Panchayet Chairman Pampoor via Ramanathapuram District	1	25000
8	Sitho Najeema Azagankulam Ramnad (Dt.)	7	175000
9	P. Soundaravalli W/o Pandi Valanondi Paramakudi	5	125000
10	J. Meenammal W/o Jayaraman Lakshmipuram Paramakudi	5	125000
11	N.Pathampiriyal W/o Naganathan Vaniyavallam, Nayinarkoil Block, Ramnad (Dt.)	4	100000
12	Zahir Hussain S/o Mahammed Ali Perumkulam Ramnad	100	250000
13	Rathakrishnan Muthunal	40	1000000
14	Dr.S.M.Gani Kaluvoorani Ramnad (Dt.)	200	5000000
15	A.Kulanthai	5	125000

	W/o Antony Valluvar Nagar, Thondi Ramnad Dt. Ph:no 9842987265		
16	P.Subramanian Manjur Ramanathpuram (Dt.)	2.5	62500
17	V.Austin Pirappanvalasai, Ramanathapuram	1	25000
18	T.Sakthivel Kadarkarai salai Near Railway Line, Pirappanvalasai Ramnad (Dt.) 623516	3	75000
19	Mohamed Kaluvoorani Ramanathapuram	20	500000
20	D.Jaikumar Pambur, Ramnad	5	125000
21	C.Bose S/o Chinniah Kattuparamakudi	3	75000
22	National Acadamy Matriculation School Pattinamkathan Ramnad	3	75000
23	Iyyamperumal S/o Muniandi Sethunagar, Muthupettai Ramnad	5	125000

C. Food processing

S. No.	**Entrepreneurs name and address**	**Items**	**Capacity**	Income / year(Rs.)
1.	Tmt. M. Muthurani W/o. J. Muthukrishnan Marudhupandiyar 3rd street Bharathi Nagar Ramanathapuram	Jam	25 bottles / month 30 x 25 = 750 / month	9000
2.	Tmt. K. Sudha W/o. P. Kannan 3/3198, Kannankoil street Pattinamkathan	Jam	25 to 30 bottles / month 30 x 30 = 900/month	10800
3.	Tmt. E. Ranithabethal W/o. Edward	Pickle	450 to 500 bottles / month	40000
4.	2/66 C, Thamizhar street Sitharkottai 9894894480	Jam	15 bottles / month 30 x 15 = 450 x 12	5400
5.	Tmt. J. Lathipa Begam W/o. M. Janinutheen 3/611, North Street Vedhalai, Mandapam	Jam	20 bottles / month 30 x 20 = 600/month	7200

D. Coir compost

Sl.No.	Entrepreneurs name and address	Capacity	Income / year(Rs.)
1.	Dr.Mohamed Gani Managudi, Pudumadam Ramanathapuram Ph.263 516,cell: 9443208350	10tons/cycle Rs.300/ton 300x 10=3000x4	Own use& sales Rs.12000
2.	Mr.M.Nagu Ex.Union Panchayat Chairman 3-A,Durairaj Chatra Street Ramanathapuram Cell:9443164041	10tons/cycle	Own use& sales Rs.12000
3.	Mr.Noorul Ameen North street Pudumadam, Ramanathapuram	1ton/cycle 300x4	1200
4.	Mr.Shahul Hameed Near Mosque Valantharavai Ramanathapuram	3tons/cycle 300x3=900 900x4	36000
5.	Mr.M.Ganesan 7/269,West street, Regunathapuram ph.253 296	1ton/cycle 300x4	1200

A. Horticulture

S.No	Entrepreurs name and address	Items	capacity	Income/year(Rs.)
1.	Bharakath Nisha Katoorani village Ramanathapuram	Greens	10 to 20kg/month	2000

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

PART XII - LINKAGES

12. A.Functional linkage with different organizations

Sl.No	Name of organization	Nature of linkage
1	ICAR Institutions • CMFRI • ICAR KVK's	• For organizing linkage training programmes • For TOT tie-up
2	State Agricultural University and Research Centre, Plant Clinic Centre and KVK's	• Exchange of experts as resource person for training programme • For updating research establishment in the respective field so as to meet out the needs the beneficiaries
3.	State Department of Agriculture	• To organize collaborative training programme • Capacity building training to the extension functionaries • joint diagnostic survey, participation in meeting
4.	State Department of Horticulture	
5.	State Department of Fisheries	
6.	State Department of Animal Husbandry	
7.	State Department of Forestry	
8.	Soil Test Laboratory of different places	

9.	NGO's • DHAN Foundation • Community Development Centre • Mohammed Sathak Polytechnic • Seyathu Ammal College	• Co-ordination of participants in training programme organized by KVK
10.	Banking sectors • NABARD (AGM) • IOB • LDM of IOB • UCO Bank, DCCB • Pandiyan Gramena Bank	• To share knowledge on financial availability in order to equip the self employment activities of the trainees • To give training to the beneficiaries of banking sectors. To adopt villages
11.	Jain Irrigation Ltd	• To develop low cost irrigation system for drip fertigation system
12.	Other Rural Development Agencies • DPAP • DRDA • NAWPRA, Panchayat Raj Institution	• To provide location based training to the beneficiaries • Transfer of technology purpose • To reduce the area under wasteland

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.)
Introduction of mini portable sprinkler in coastal sandy soils	June 2010	NADP	45,00,000
National Initiative of Climate Resilient in Agriculture	March 2011	ICAR	33,00,000

12. C Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

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

- KVK was involved in SREP preparation, later the short term research and District level Farmers-Scientist interaction was assigned to KVK, Ramanathapuram and funds was released by the JDA, Ramanathapuram.

- The short term research has been completed and also the Farmers-Scientist interaction as per work assigned

Coordination activities between KVK and ATMA during 2010-11

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	**Meetings**	Farmers-Scientist interaction	2	2	Work completed
02	**Research projects**	Short term research	1	1	Field observation in progress
03	**Training programmes**				
04	**Demonstrations**				
05	**Extension Programmes**				
	Kisan Mela				
	Technology Week				
	Exposure visit				
	Exhibition				
	Soil health camps				
	Animal Health Campaigns				
	Others (Pl. specify)				
06	**Publications**				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	**Other Activities** (Pl. specify)				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

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

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

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

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

12. F. Details of linkage with RKVY

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

12. G Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
The cheque has been drawn in favour of the service provider but yet to receive the user ID and password, as soon as we get the ID and password the list of already framed farmers will be sent messages and the work will be initiated.			

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

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

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Pulses									
Oilseeds									

Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									
Modal orchard (Mango,sapota,Amla,Guava,AcidlimeS)	13.09.10	-	0.2	-	-	-	-	-	-

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

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

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

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

13. E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
October 2008	-	-	-
November 2008	-	-	-
December 2008	-	-	-
January 2009	-	-	-
February 2009	-	-	-
March 2009	-	-	-
April 2009	-	-	-
May 2009	-	-	-
June 2009	-	-	-
July 2009	-	-	-
August 2009	-	-	-
September 2009	-	-	-

13. F. Database management

S. No	Database target	Database created
1. Resource inventory of the district	• Nine fold classification of land • Number and size of operational holdings • Weather parameters of the district. (for a minimum period of ten years) • Details of soil profile • Detailed cropping pattern (for a minimum period of ten years) • Area, production and productivity of major crops • Details of livestock wealth in the district • Production and productivity of livestock produces • Area under irrigation from different sources • Seasonal availability of labour • Trend in wholesale price of major crop and livestock products (for a minimum period of ten years.) • Details on input agencies • Details on infrastructural facilities available for • Production, post harvest and marketing. • Details of institutional credit facilities • Any others relevant to district	**Nil**

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

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

PART XIV - FINANCIAL PERFORMANCE

14. A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute							
With KVK	State Bank of India	Ramanathapuram	908	SB	10776777321		

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

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

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

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

2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2008 to March 2009	1020335	413815	14233	1291817
April 2009 to March 2010	1291817	62214	860201	493830
April 2010 to March 2011				

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.V.Meenakshi	Assistant Professor (HomeScience)	Recent trends in crop processing technology	Indian institute of crop processing technology Thanjavor	23.03.11to 25.03.11
Dr. C. Kavitha	Assistant Professor (Horti)	Training on "Protected Cultivation in Horticultural Crops".	DOEE, TNAU, Coimbatore	28.03.11to 29.03.11
Dr. A. Anuratha	Assistant Professor (soil science &Agrl. chemistry)	Southern Regional Seminar cum Training to Soil testing personnel.	Dept.Soil Science, TNAU, Coimbatore	15.12.10 to 16.12.10
		Training on advances in soil health and fertility management.	DOEE, TNAU, Coimbatore	21.03.11 to 23.03011

Dr.P.Thurkayannan	Assistant Professor Agronomy	RoundUp Ready Flex Cotton Technology trial exposure training	Department of Agronomy, TNAU, Coimbatore	28.10.2010
		Training in Micro irrigation and fertigation in Precision Farming Technology	Jain Irrigation Systems Ltd, Udumalaipettai	19.11.2010 to 20.11.2010
		Training on Climate Change and Weather based Agro Advisory System	Directorate of Extension Education, TNAU, Coimbatore	30.03.2011 to 31.03.2011
Dr.C.Vijayaraghavan	Assistant Professor (Agrl.Entomology)	Training on Mass production of papaya mealybug parasitoids	Directorate of Extension Education, TNAU, Coimbatore	21.10.10
		Training on "IPDM strategies for hi-value crops"	Directorate of Extension Education, TNAU, Coimbatore	24.03.11to 25.03.11
Dr.G.Anand	Assistant Professor (Agrl.extension)	Training on New initiatives in transfer of technologies	Directorate of Extension Education, TNAU, Coimbatore	24.03.11to 25.03.11
Tmt.G.Namagirilakshmi	Prog.Asst (Comp)	Training on Data base management, web content and web hosting development	Directorate of Extension Education, TNAU, Coimbatore	29.03.11 to 31.03.11.

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

SUMMARY FOR 2010-11

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management	Paddy	Micronutrient mixture for rainfed rice	5
	Pulses	Assessment of the performance of pulse wonder in rainfed black gram	5
	Chilli	Soil test based IPNS in chilli	5
Varietal Evaluation	Redgram	Performance evolution of red gram varieties	5
	Castor	Performance evaluation of castor	5
Integrated Pest Management			
Integrated Crop Management	Coconut	Intercropping in coconut gardens	5
	Rice	Management of water logging and salinity conditions in rainfed rice	5
Integrated Disease Management			

Small Scale Income Generation Enterprises			
Weed Management	Rice	Assessment of efficient mechanical weeding	3
Resource Conservation Technology			
Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
Total			**38**

Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Disease Management			
Evaluation of Breeds			
Feed and Fodder management			
Nutrition Management			
Production and Management- Management of infertility	Cow	Management of infertility in cross bred cows	5
Others (Pl. specify) –			
Total			5

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
Total			

Summary of technologies assessed under refinement of various livestock

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

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha) Nuts/yr/ha		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals																		
Rice Anna-4	Varietal Introduction	Popularization of Anna4 Rice variety in the district		10	10	40.5	27.2	48.8	-	--	18000	32364	14364	1:1.8	15000	21744	6744	1:1.4
Rice CoRH3	Varietal Introduction	Popularization of CoRH3 Rice hybrid in the district		10	10	50.2	31.2	60.8	-	-	22000	60278	38278	1:2.7	15000	24936	9936	1:1.7
Rice	Pest Incidence	Integrated pest management BPH		12	5	3.85	3.2	20.31	-	-	21000	41580	20580	1:1.98	23000	34560	11560	1:1.50
Rice	Pest Incidence	Integrated pest management yellow stem borer		25	10	4.13	3.40	21.47	-	-	22000	44604	22604	1:2.02	24500	36720	12220	1:1.49
	Varietal introduction	Varietal introduction with		10	2.5	3.48	2.21	57	-	-	6500	11484	4984	1:1.77	5520	7293	1773	1:1.32

Vegetables																	
Chilli	Low cost storage	Vegetable preservator		6 nos	---	300 kg Vegetables / batch	-	-	-	-	1050	1250	200	1:1.9	750.8	846	95.2	1:1.2
Snake gourd	Varietal Introduction	Varietal introduction of snake gourd Co2		20	5	175	122	43.4			37200	87500	50300	2.35:1	28000	48800	20800	1.73:1
Banana	Post harvest management	1.Banana bunch cover technique		10 Nos	2 acre	500	450	11.1	-	-	60500	240000	179500	1:3.9	45750	160000	114250	1:3.5
Chilli	Low cost storage	Integrated crop management practices		20	5	16.75	11.23	14.6	8.25	76.9%	42000	146000	104000	3.5:1	31200	82500	51300	2.6:1
Plantation Coconut		Micro nutrient mixture for coconut		10	2ha	17210	12132	13121	7552	73%	30152	65605	35453	1:2.18	20152	37760	17608	1:1.87
Total																		

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

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy Calf	Popularization	Popularization of salt lick mineral cake for calves		20	200													
		Total																

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

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Fish	Quality assessment of fish	Insulation bag for fish		10 Nos	250kg Fish / batch	-	-	-	-	-	19750	22500	2750	1:1.3	26250	27720	14750	1:1.2
	Total																	

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

Other enterprises

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

Women empowerment

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit ect.)			
						Demonstration	Check									

Other enterprises
Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demonst-ration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals										
Rice	CoRH 3			5023	3117	60.8	22000	60278	38278	1:2.7
Total										

IV. Training Programme
Farmers' Training including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Production of organic inputs	1	12	9	21	0	0	0	12	9	21
Livestock Production and Management										
Dairy Management	1	24	4	28	-	-	-	24	4	28
Animal Nutrition Management	2	42	6	48	-	-	-	42	6	48
Others (pl.specify)	1	-	30	30	-	-	-	-	30	30
Home Science/Women empowerment										
Value addition	4	-	22	22	5	66	71	5	88	93
Plant Protection										
Integrated Pest Management	4	42	68	110	0	0	0	42	68	110
TOTAL	**13**	**120**	**139**	**259**	**5**	**66**	**71**	**125**	**205**	**330**

Farmers' Training including sponsored training programmes (Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Integrated Crop Management	2	21	34	55	0	0	0	21	34	55
Soil and Water Conservation										
Integrated Nutrient Management	5	81	53	134	0	0	0	81	53	134
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	10	10	20	0	0	0	10	10	20
Off-season vegetables										
Nursery raising	1	0	29	29	0	0	0	0	29	29
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	5	92	33	125	37	11	48	129	44	173
d) Plantation crops										
Production and Management technology	1	24	0	24	0	0	0	24	0	24
Soil Health and Fertility Management										
Integrated water management	1	13	29	42	0	0	0	13	29	42
Integrated nutrient management	1	5	20	25	0	0	0	5	20	25
Micro nutrient deficiency in crops	1	12	8	20	0	0	0	12	8	20
Livestock Production and Management										
Dairy Management	1	32	0	32	0	0	0	32	0	32
Animal Disease Management	1	0	0	0	33	0	33	33	0	33
Feed and Fodder technology	1	9	16	25	0	0	0	9	16	25
Production of quality animal products	1	31	7	38	0	0	0	31	7	38
Home Science/Women empowerment										
Value addition	4	73	33	106	4	0	4	77	33	110
Plant Protection										
Integrated Pest Management	7	99	65	164	50	14	64	149	79	228
TOTAL	**33**	**502**	**337**	**839**	**124**	**25**	**149**	**636**	**362**	**988**

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

Area of training	No. of Courses	No. of Participants		
		General	SC/ST	Grand Total

		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	0	21	21	0	0	0	0	21	21
TOTAL	1	0	21	21	0	0	0	0	21	21

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Planting material production	1	20	2	22	0	0	0	20	2	22
TOTAL	**1**	**20**	**2**	**22**	**0**	**0**	**0**	**20**	**2**	**22**

Training programmes for Extension Personnel including sponsored training programmes

(on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Nutrient management	2	0	40	40	0	0	0	0	40	40
Total	**2**	**0**	**40**	**40**	**0**	**0**	**0**	**0**	**40**	**40**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Total										

Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
	Total	NIL									

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
	Crop production and management										
1	Sea weed cultivation	1	0	16	16	0	4	4	0	20	20

	Post harvest technology and value addition										
2	Value addition	1	2	24	26	0	0	0	2	24	26
3	Vermi-composting	1	5	6	11	4	0	4	9	6	15
4.	Mushroom cultivation	2	23	20	43	2	0	2	25	20	45
	Agricultural Extension										
	Grand Total	**5**	**30**	**66**	**96**	**6**	**4**	**10**	**36**	**76**	**106**

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	84	84	2	
Diagnostic visits	43	48		
Group discussions	8	183		
Exhibition	1	500	12	
Scientists' visit to farmers field	84	286	20	
Method Demonstrations	37	915	--	
Exposure visits	2	141		
Others (pl.specify)				
Total				

Details of other extension programmes

Particulars	Number
Electronic Media	
Extension Literature	4x 1000 copies
News Letter	
News paper coverage	21
Technical Articles	5
Radio Talks	6
TV Talks	17
Animal health camps (Number of animals treated)	
Others (pl.specify)	
Total	

VI. PRODUCTION OF SEED/PLANTING MATERIAL

Production of seeds by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Rice	RMD(R)H-1	0.85	2340/-	3
Total					

Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Number	Value (Rs.)	Number of farmers
Commercial					
Vegetable seedlings	Chilli	- NS 1701	31000	12400	5
	Chilli	Local Mundu	9400	2820	2
	Tomato	- US Agri 618	4000	1600	2
Others					
Total					

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others				
	Vermi compost	1420	7100	8
	Earth worm	1	400	1
Total				

Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Total				

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

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	**25**	**17**		**625**
Water	**27**	**27**		**270**
Plant				
Manure				
Others (pl.specify)				
Total	**52**	**44**		**895**

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted
ONE NUMBER

IX. NEWSLETTER

Number of issues of newsletter published

One number of Annual issue is at the final stage of release

X. RESEARCH PAPER PUBLISHED

**Number of research paper published **
5

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

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

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