

ANNUAL REPORT 2009-10

(APRIL 2009 to MARCH 2010)

KRISHI VIGYAN KENDRA
DHARMAPURI

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 Papparapatty – 636 809 Dharmapuri District Tamil Nadu	04342- 245860 Farm 04342- 248040	FAX 04342- 245860	kvkdpri@tnau.ac.in	www.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 Tamil Nadu	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		
	Residence	Mobile	Email
Dr.P.Sridhar	-	09442151096	pckvkpapa@rediffmail.com

1.4. Year of sanction: December 2006

1.5. Staff Position (as 31st March 2010)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr. P. Sridhar	Assoc. Prof and Head	M	Agronomy	Ph.D.	37,400-67,000 + AGP 9000	47,800	27.12.06	Permanent	OBC
2	SMS	Dr. R. Jansirani	Assoc. Prof.	F	Agri. Extension	Ph.D.	37,400-67,000 + AGP 9000	35,200	10.08.09	Permanent	SC
3	SMS	Dr. C. Sivakumar	Asst. Prof.	M	Agronomy	Ph.D.	15600-39100+ AGP 7000	28,230	29.12.06	Permanent	OBC
4	SMS	Th. R. Sivakumar	Asst. Prof.	M	Crop Physiology	M.Sc., (Agri)	15,600-39100 + AGP 6000	23,610	14.05.07	Permanent	OBC
5	SMS	Dr. N. A. Saravanan	Asst. Prof.	M	PB & G	Ph.D.	15,600-39100 + AGP 6000	24,850	29.12.09	Permanent	OBC
6	SMS	Dr. K. Indhumathi	Asst. Prof.	F	Horticulture	Ph.D.	15,600-39100 + AGP 6000	24,850	30.12.09	Permanent	OBC
7	SMS	Dr. P.S.Shanmugam	Asst. Prof.	M	Entomology	Ph.D.	15,600-39100 + AGP 7000	24,850	15.02.10	Permanent	OBC
8	Programme Assistant (Lab Tech.) /T-4	Ms. M. Swapna	Prog. Asst	F	Agriculture	B.Sc., (Agri)	9300-34800+ 4400	16,000	04.06.07	Permanent	OBC

9	Programme Assistant (Computer) / T-4	Tmt. A. Pabitha	Prog. Asst	F	Computer	M.Sc. (Horti), PGDCA	9300-34800+4400	15,070	10.12.08	Permanent	OBC
10	Programme Assistant / Farm Manager	Th.R.Panneerselvam	Farm Manager	M	PB & G	M.Sc., (Agri)	9300-34800+4400	16,000	04.06.07	Permanent	OBC
11	Assistant Accounts officer	Th. K.Udhaiyhanan	Asst Accounts Officer	M	-	-	9300 – 34800 +4450	20,060	01.09.09	Permanent	OBC
12	Jr. Stenographer	Th.R.Srinivasan	Typist	M	-	-	5200-20,200+2000	8,200	31.12.08	Permanent	SC
13	Driver (Tractor)	Th.P.Thirumoorthy	Driver	M	-	-	5200-20,200+2000	10,160	18.01.07	Permanent	OBC
14	Driver	Vacant	Vacant	-	-	-	-	-	-	-	-
15	Supporting staff	Vacant	Vacant	-	-	-	-	-	-	-	-
16	Supporting staff	Vacant	Vacant	-	-	-	-	-	-	-	-

1.6. Total land with KVK (in ha) : 16.16 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.15
2.	Under Demonstration Units	0.006 ha
3.	Under Crops	Fodder crop – 0.1 ha
4.	Orchard/Agro-forestry	Mango Model Nursery – 2 ha Tamarind – 2 ha
5.	Others	-

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		548.24	54, 26, 000	19.05.08	---	
2.	Farmers Hostel	ICAR		300	32, 06,000	19.05.08	---	
3.	Staff Quarters	ICAR		400.00	39, 57, 000	19.05.08	---	
	1							
	2							
	3							
	4							
	5							
	6							
4.	Demonstration Units							
	Slatted Floor Goat Rearing Unit	ICAR	15.03.2009	57.8 Sq.m	3, 10, 000	19.05.08	---	Purchase of goats is under progress
5	Fencing	ICAR	20.03.2009	---	10, 00, 000	19.05.08	---	---
6	Rain Water harvesting system	ICAR	Proposal has been sent for council approval					
7	Threshing floor	-	---					
8	Farm godown	-	---					

B) Vehicles

Type of vehicle	Model	Actual cost (Rs.)	Total kms. Run	Present status
Jeep (TN 29 AB 4127)	2007	4,82,329	77,600	Good condition
Two wheeler (TN 29 AB 3695)	2007	42804	32,268	Good condition
Two wheeler (TN 29 AB 3696)	2007	42804	33,104	Good condition
Tractor with trailer (TN 29 AB 5582)	2007	5,00,347	640 hrs	Good condition

C) Equipments & AV aids

Sl. No.	Name of Equipments	Date of purchase	Cost (Rs.in lakhs)	Present status
1	Computer accessories including LCD	2007	1,42,224	Good condition
2	OHP		11,050	Good condition
3	Camera		20,213	Good condition
4	Photocopier		68,340	Good condition
5	Slide projector		24,938	Good condition
6	Fax machine	2008	14,000	Good condition
7	Computer with accessories	2009	75,000	Good condition
8	Power tiller		1,50,000	Good condition

1.8. A). Details SAC meeting conducted in 2009-10

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
SAC meeting is to be conducted in June 2010					

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.	Wetland: Paddy-Sugarcane Paddy-Banana
2.	Garden land: Paddy- Pulses - Vegetables Paddy – Millets - Pulses Paddy - Turmeric Paddy - Cotton Vegetables Flowers
3.	Dry land: Tapioca - Pulses Groundnut - Pulses (Horse gram) Ragi - Pulses (Greengram / Blackgram) Cotton - Gingelly Cholam / Cumbu - Pulses Fruit crops esp. Mango Dairy farming, Goat rearing & Agro forestry

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

S. No	Agro-climatic Zone	Characteristics
1.	North Western zone	This zone comprises of Dharmapuri, Krishnagiri, Namakkal and Salem districts. This zone is having the altitude of 200-600 meter MSL with the annual rainfall of 875 mm and annual PET of 1727 mm

S. No	Agro ecological situation	Characteristics
1.	More than 80 % of the area is under dry land agriculture	Crops were raised during the South West Monsoon and North East Monsoon periods in dry land areas

2.3 Soil types

S. No	Soil type	Characteristics	Area in ha
1	Red loamy soil	The red or brown colour of the soil is attributed to the diffusion of iron content	3, 62,069
2.	Black loamy soil	The black clayey alluvium rich soil , known as black soil	19,983

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

S. No	Crop	Area (ha)	Production (Tonnes)	Productivity (kg /ha)
I.	Food grains			
1	Paddy	29023	85390	2942
2	Cholam	12470	11527	924
3	Cumbu	1080	1391	1288
4	Ragi	20532	26554	1439
5	Samai	13179	10569	802
II.	Pulses			
1	Red gram	1465	806	550
2	Green gram	279	110	394
3	Black gram	991	693	6994
4	Horse gram	14703	7650	520
5	Bengal gram	24	4	156
6	Cowpea	3879	810	209
III.	Oil seeds			
1	Groundnut	17405	32380	1346
2	Coconut (in nuts)	9131	168600000 (Nos)	51.23
3	Sunflower	357	208	668
4	Castor	162	56	342
IV.	Sugarcane	14600	80753	5531
V.	Cotton	6580	11325 (Bales)	2.93 (Bales)
VI.	Vegetable crops			
1	Chillies	311	202	649
2	Coriander	338	103	305
3	Tomato	2761	70476	25525
VII.	Spice crops			
	Turmeric	3073	7446	2423
VII.	Fruit crops			
1	Tamarind	1149	4008	3488
2	Banana	628	30838	49104
3	Mango	8799	30526	3469
VIII.	Tapioca	24067	962448	39990
IX.	Flower crops	185	--	--

Source: Annual Report, 2008-09 of Joint Director of Agriculture, Dharmapuri

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
April 2009	2.50	34.50	24.00	--
May	-	36.80	25.80	--
June	-	35.40	26.00	--
July	-	35.70	25.40	--
August	-	34.60	24.50	--
September	38.00	31.30	24.90	--
October	-	31.20	28.25	--
November	114.00	32.30	25.50	--
December	-	32.10	25.50	--
January 2010	-	33.00	25.00	--
February	-	33.10	23.40	--
March	-	33.20	25.70	--

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

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

Category	Population	Production	Productivity
Cattle			
Crossbred	175849	5,27,547 lit	9.0 lit
Indigenous	12147	25,000 lit	3.0 lit
Buffalo	100074	3,00,222 lit	3.0 lit
Sheep			
Crossbred	9325	83,925 Kg	9.0 Kg
Indigenous	266720	16,00,320 Kg	6.0 Kg
Goats	277311	13,86,555 Kg	5.0 Kg
Pigs			
Crossbred	450	4,500 Kg	10.0 Kg
Indigenous	2613	23,517 Kg	9.0 Kg
Rabbits	723	1,452 Kg	2.0 Kg
Poultry			
Hens	576598	1,03,78,764 Nos	28 Nos
Desi	136654	27,33,080 Nos	20 Nos
Improved	704197	14,08,394 Kg	2.0 Kg
Ducks	220	660 Kg	3.0 Kg
Turkey and others	-	-	-

Category	Area	Production	Productivity
Fish			
Marine	-	-	-
Inland	6,423	10,135	1.87
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

Source: Annual Report 2008-09 of Joint Director of Animal Husbandry and Assistant Director of Fisheries, Dharmapuri

2.6 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.	Palacode	Palacode	Palacode, Pethana Halli, Pulikarai, Kattampatti, A.Mallapuram	2	Paddy	1.Low yield due to conventional method of transplanting without INM 2. Indiscriminate use of plant protection measures.	Introduction of SRI method of cultivation. Based on the ETL plant protection measures have to be taken.
2.	Dharmapuri Pennagaram	Dharmapuri Pennagaram	Nallampalli, Ealagiri, Jarugu, Balajangamana Halli,	3	Blackgram	1.Use of conventional varieties 2.Growing under rainfed condition without application of nutrients.	Introduction of new high yielding varieties
3.	Harur Pennagaram	Harur Morappur Pennagaram	Morappur, Samballi, Mudugampatti, Thenkaraikottai Gopalapuram	2	Ragi	1.Use of local varieties 2. Inadequate Nutrient Management	Replacement of old with high yielding varieties like CO (Ra) 14 and MR 4 with INM
4.	Palacode	Karimangalam Palacode	Adilam, Kiriya Halli, Poolapatti Maranda Halli	2	Coconut	Button shedding No Micro nutrient application	Integrated nutrient management and use of Coconut Tonic
5.	Pennagaram Harur	Pennagaram Morappur Harur	Morappur, Odasalpatti Gunsettipatti Athanur, Rangapuram	2	Sesame	1.Use of conventional varieties 2.Growing under rainfed condition without Micro nutrient application.	Introduction of new high yielding variety VRI (Sv) 2 with INM
6.	Pappireddipatty Harur	Pappireddipatty Harur	Thenkanikottai, Kadathur, Bommidi Menaci	3	Tapioca	1.Low yield due to heavy Virus incidence	Selection and multiplication of Virus free setts

7.	Dharmapuri	Dharmapuri	Dharmapuri, Velloli, Annasagaram, Venkatapuram	3	Turmeric	1. Use of low yielding varieties 2. High incidence of Rhizome rot	Replacement of local varieties with high yield improved varieties like BSR 2 & Rhomas Roma
8.	Palacode	Palacode	Karimangalam, Periyampatti, Matlampatti, Begara Halli	3	Tube Rose	1. High incidence of Mealy bug	Management through Profenophos
9.	Dharmapuri	Dharmapuri	Nallamballi, Thoppur Vellakkal Jarugu	3	Banana	1. Erwinia Rot and Bananas stem weevil	IPM Technology through Pseudo stem injection
10.	Pennagaram	Pennagaram	Eariyur, Neruppur, Sellamudi	3	Wheat	Growing of low value & low yield crops like Horse gram during winter	Introduction of Wheat variety COW (W) 1
11.	Dharmapuri	Dharmapuri	Chinnapudur, Nallampatti Gundalpatti	2	Sunflower	1. Use of low yielding local varieties 2. Inadequate nutrient management	Introduction of high yielding hybrid KBSH41 with INM
12.	Palacode	Palacode	Palacode Kattampatti Guddampatti Gollapatti	2	Groundnut	1. Low yielding variety 2. Inadequate Nutrient and Pest management	Introduction of high yielding variety TMV (Gn) 13 with INM and IPM
13.	Pennagaram	Pennagaram	Nagadasampatti B. Agraharam Papparapatti	2	Cumbu Napier Grass	Use of local Grass without nutrient management	Introduction of High yielding CN hybrid CO (CN) 4

2.7 Priority thrust areas

S. No Thrust area

1. Management of *Erwinia* Root Rot and Stem Weevil in Banana
2. Precision Farming Techniques
3. Selection and multiplication of virus free sett material in Tapioca
4. Rejuvenation old Mango Orchards
5. Pit method of Sugarcane cultivation
6. Introduction of new variety and Management of Rhizome rot in Turmeric
7. Production of vegetable seedlings under shade net condition
8. Organic Farming training
9. System of Rice Intensification
10. Introduction of new variety / hybrid in Wheat & Sunflower
11. Leaf miner & virus management in Tomato
12. Management of fruit drop in mango
13. Management of fruit flies in gourds

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	8	20	20	12	12	115	115

Training				Extension Activities			
3				4			
Number of Courses		Number of Participants		Number of activities		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
128	128	4600	4604	1138	1138	14000	13387

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
543	543	50,000 slips(Forage)	40,000 slips (Forage)

Livestock (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
Nil	Nil	Nil	Nil

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
1	Introduction of new variety and Management of Rhizome rot in Turmeric	Turmeric	Suitable variety	Assessment of suitable turmeric variety for Dharmapuri District	-	5	2	1	Skill demonstration & Field day	BSR 1 BSR 2 Roma				
2	Precision Farming Techniques	Vegetables	Drip system maintenance		-	2		1	Seminar					
3	Leaf miner & virus management in Tomato	Tomato	Yield loss due to Tomato spotted wilt Virus & Leaf curl virus	Assessing the performance of Tomato hybrids	-	2		1	Seminar & demonstration	CORH (T) 2				
4	Management of fruit drop in mango	Mango	Poor yield due to inadequate Nutrient Management	Assessment of foliar nutrition in mango	-	2	1	1	Skill demonstration & field day	Trap				
5	System of Rice Intensification	Paddy	Poor yield due to conventional cultivation	Assessing the age of White ponni seedlings for SRI cultivation	Popularization of Paddy variety Co(R) 49 under SRI	2	1	1	Demonstration & field day	Co(R)49				
6	Introduction of new variety / hybrid in Sunflower	Sunflower	Low yield		ICM practices for KBSH 41	1	1	1	Village meeting & demonstration	KBSH41				
7	Introduction of new variety / hybrid in Wheat	Wheat	New crop		Popularization of Wheat CoW(W)1	2	1	1	Demonstration	Co(W)W 1				

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.	Use of Humiphos as Phosphate source for Tapioca	Erode precision farming farmers	Tapioca	✓	-		No. of trials – 5
2.	Turmeric varieties for higher productivity	TNAU	Turmeric	✓	-	1	No. of trials – 5
3.	Management of mealy bug in tuberose	TNAU	Tuberose	✓	-	-	No. of trials – 5
4.	Integrated Nutrient Management in Mango	TNAU, IIHR	Mango	✓		1	No. of trials – 5
5.	Tomato hybrids for higher productivity	TNAU	Tomato	✓		2	No. of trials – 5
6.	Integrated Nutrient Management in Coconut	TNAU	Coconut	-	✓	5	Demo – 10
7.	Use of TNAU improved turmeric boiler for easy processing	TNAU	Turmeric	-	✓	-	Demo – 10
8.	Cultivation of Ragi variety CO (Ra) 14	TNAU	Ragi	-	✓	1	Demo – 10
9.	Management of fruit fly in Mango	TNAU	Mango		✓	2	Demo – 10
10.	Integrated Nutrient Management in Hybrid Maize	TNAU	Maize			5	
11.	IPM practices for Banana Pseudo stem Weevil	TNAU	Banana		✓	1	Demo – 10
12.	IPM Module for Brinjal Shoot & Fruit Borer	TNAU	Brinjal		✓	1	Demo – 10
13.	Use of Banana bunch cover	TNAU	Banana			5	Demo - 10
14.	Drip management in precision farming	TNAU	Vegetables			24	Demo - 15

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
17		5		80	15	20		3306	812	224	157				

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
Nil										

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

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

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitary	Fisheries	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	Area (ha)
Integrated Nutrient Management	Tapioca	Assessment of Humiphos as an organic phosphate source in Tapioca	5	5
	Mango	Assessment of foliar nutrition in mango	5	1
Varietal Evaluation	Turmeric	Assessment of suitable turmeric variety for Dharmapuri District	2	2
	Ragi	To assess the performance of different Ragi varieties under rainfed condition	7	5
	Tomato	Assessing the performance of tomato hybrids	5	2.5
Integrated Pest Management	Tuberose	To assess the management of mealy bugs by different sprays in tube rose	5	2
Integrated Crop Management	Rice	To assess the age of seedlings in white Ponni (long duration) under SRI	1	1.4
	Sugarcane	To assess the performance of different types of seed materials in sugarcane	5	2
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System		-Nil-		
Seed / Plant production				
Value addition				
Drudgery Reduction				
Storage Technique				
Mushroom cultivation				
Total			35	20.9

4.B.2. Technologies Refined under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Area (ha)
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
Evaluation of breeds			
Nutrition management	Poultry	Oral pellet vaccine against Ranikhet disease in desi birds	2
Disease management	Nil		
Value addition			
Production and management			
Feed and fodder			
Small scale income generating enterprises			
Total			2

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
Nil			

4.C1. Results of Technologies Assessed

OFT 1: Assessment of Humiphos as an organic Phosphate source in Tapioca

1.	Crop/ enterprise	Tapioca
2.	Farming situation	Irrigated
3.	Problem definition	Non availability of DAP
4.	Title of OFT	Assessment of Humiphos as an organic Phosphate source in Tapioca
5.	No. of trials	05
6.	Technology Assessed	Effect of humiphos application
7.	Parameters of assessment	Number of tubers/plant
8.	Data on the parameter	Number of average tubers/plant – 9, Yield 42 t/ha
9.	Results of assessment	The Humiphos application increases the yield up to 25% & 8% than the recommended dose of fertilizers and DAP application respectively
10.	Feedback from the farmer	Humiphos can be used as a alternate source for DAP. The use of Humiphos also increases the yield
11.	Any refinement done / needed	-
12.	Justification for refinement	-

Contd..

Technology Assessed	Production (t /ha)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Recommended fertilizers	35	2,10,000	2.13
DAP application @ 80 kg / acre +N and K as per recommendation	38	2,28,000	2.78
Humiphos 100 kg per acre + N and K as per recommendation as basal	42	2,52,000	3.10

OFT 2: Assessment of suitable Turmeric variety for Dharmapuri District

1.	Crop/ enterprise	Turmeric
2.	Farming situation	Irrigated
3.	Problem definition	Low yield of local varieties like Salem local
4.	Title of OFT	Assessment of suitable Turmeric variety for Dharmapuri District
5.	No. of trials	05
6.	Technology Assessed	Selection of suitable turmeric varieties
7.	Parameters of assessment	No. of plants/m ² , No. of leaves /plant, Plant height (cm)
8.	Data on the parameter	No. of plants/m ² : 14.20, No. of leaves /plant :8.0 , Plant height (cm) :43 at 80 DAS
9.	Results of assessment	Variety BSR 2 recorded highest cured turmeric yield of 7.3 t/ha. Other variety BSR -1 and local variety recorded lowest yield
10.	Feedback from the farmer	Performance of BSR-2 is better in terms of finger size, fresh rhizome and cured turmeric yield.
11.	Any refinement done / needed	-----
12.	Justification for refinement	-----

Contd..

Technology Assessed	Production (t /ha)	Net Return (Profit) in Rs / unit	BC Ratio
13	14	15	16
Local variety (Salem local)	5.20	2,65,200	2.96
BSR-1	6.70	3,41,700	3.82
BSR-2	7.31	3,72,300	4.16

OFT 3. To assess the performance of different Ragi varieties under rain fed condition

1.	Crop/ enterprise	Ragi
2.	Farming situation	Rainfed
3.	Problem definition	Low yield under rainfed conditions
4.	Title of OFT	To assess the performance of different Ragi varieties under rain fed condition
5.	No. of trials	05
6.	Technology Assessed	Performance of CO 7, GPU 28, Paiyur (Ra) 2 & MR 4 under rainfed condition
7.	Parameters of assessment	No of tillers/hill, Yield/ha
8.	Data on the parameter	No of tillers; CO 7 – 3, GPU 28 – 4, Paiyur (Ra)2 – 5 & MR 4 – 3
9.	Results of assessment	Paiyur(Ra)2 performed better than the other varieties in rainfed condition
10.	Feedback from the farmer	Paiyur(Ra)2 is suitable for rainfed condition
11.	Any refinement done / needed	
12.	Justification for refinement	

Contd..

Technology Assessed	Production (Q/ha)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
CO 7	8.6	3100	2.1
GPU 28	9.2	3700	2.4
Paiyur (Ra) 2	10.2	4700	2.8
MR 4	8.2	2700	2.2

OFT 4. To assess the efficacy of different sprays for management of Mealy bugs in Tube Rose

1.	Crop/ enterprise	Tuberose
2.	Farming situation	Irrigated
3.	Problem definition	High incidence of mealy bug
4.	Title of OFT	To assess the efficacy of different sprays for management of Mealy bugs in Tube Rose
5.	No. of trials	05
6.	Technology Assessed	a) NSKE 5% (2 sprays) b) Profenophos 2ml / lit (2 sprays) c) Profenophos 2 ml / lit + Imidacloprid 0.5 ml / lit + Profenophos 2 ml / lit
7.	Parameters of assessment	Percentage of reduction in infestation; yield per plant
8.	Data on the parameter	TO 3 : Percentage of infestation reduction 72 ; Yield per plant 120 g
9.	Results of assessment	Profenophos 2 ml / lit + Imidacloprid 0.5 ml / lit + Profenophos 2 ml / lit was found to be more effective than the other sprays
10.	Feedback from the farmer	Though reduction in infestation is observed due to TO 3, the incidence increases one week after spray. Frequent interventions are required to keep the infestation in check
11.	Any refinement done / needed	Yes
12.	Justification for refinement	Since mealy bug infestation persists, the technology needs refinement

Contd..

Technology Assessed	Production (t / ha)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
NSKE 5% (2 sprays)	8.30	2,17,500	2.3
Profenophos 2 ml per lit (2 Sprays)	9.42	2,35,500	2.1
Profenophos 2 ml / lit + Imidacloprid 0.5 ml / lit + Profenophos 2 ml / lit	11.80	2,55,000	2.6

OFT 5. To assess the age of seedlings in White Ponni (Long duration) under SRI

1.	Crop/ enterprise	Paddy
2.	Farming situation	Irrigated
3.	Problem definition	Lesser establishment of 14 days old single seedlings
4.	Title of OFT	To assess the age of seedlings in white Ponni (Long duration) under SRI
5.	No. of trials	01(Farm trail)
6.	Technology Assessed	a) Planting 45 days old seedlings in normal planting b) Planting of 14 days old single seedlings c) Planting of 20 days old single seedlings d) Planting of 25 days old single seedlings
7.	Parameters of assessment	No. of panicles/hill and No. of grains / panicle
8.	Data on the parameter	No. of panicles/hill :37.60 and No. of grains / panicle : 267
9.	Results of assessment	Planting of 14 days old seedlings in SRI method increases the grain yield up to 45.26 % over farmers method of using 45 days old seedlings under normal planting
10.	Feedback from the farmer	Field day was conducted during harvest stage, farmers themselves counted the no. of panicles/hill and no. of grains /panicle. Later they had the interaction with scientists and expressed their happiness over panicle count /hill for white ponni.
11.	Any refinement done / needed	
12.	Justification for refinement	

Contd..

Technology Assessed	Production (t/ha)	Net Return Rs.	BC Ratio
13	14	15	16
Planting 45 days old seedlings in normal planting	4.7	27105	2.23
Planting of 14 days old single seedlings Under SRI	6.7	48675	3.22
Planting of 20 days old single seedlings Under SRI	6.1	42090	2.92
Planting of 25 days old single seedlings Under SRI	5.6	36308	2.55

OFT 6. Assessment of Foliar Nutrition cum fertilizer application in Mango

1.	Crop/ enterprise	Mango
2.	Farming situation	Irrigated
3.	Problem definition	Flower and fruit drop due to inadequate nutrient management
4.	Title of OFT	Assessment of Foliar Nutrition cum fertilizer application in Mango
5.	No. of trials	05
6.	Technology Assessed	a) FYM @ 40 kg / tree b) FYM/compost @ 50 kg / tree, NPK @ 1:1: 1.5 kg / tree, Urea spray @ 1 % solution c) 19:19:19 – 1 % (2 sprays) – July & Sep, 13: 0: 45 - 1 % (2 sprays) – Dec & Feb, IIHR Mango special nutrient mixture @ 5 g / l - 3 times / year (June – July, Nov- Dec and Feb – Mar)
7.	Parameters of assessment	Yield per tree ; Productivity
8.	Data on the parameter	Yield per tree 31.0 kg/tree; Productivity 6.2 t/ha
9.	Results of assessment	TO 3 [19:19:19 – 1 % (2 sprays) – July & Sep, 13: 0: 45 - 1 % (2 sprays) – Dec & Feb, IIHR Mango special nutrient mixture @ 5 g / l - 3 times / year (June – July, Nov- Dec and Feb – Mar)] has given
10.	Feedback from the farmer	Application of micronutrient mixture increase the fruit set
11.	Any refinement done / needed	-
12.	Justification for refinement	-

Contd..

Technology Assessed	Production t/ha	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
FYM @ 40 kg / tree	4.3	19720	2.6
FYM/compost @ 50 kg / tree, NPK @ 1:1: 1.5 kg / tree, Urea spray @ 1 % solution	5.5	25225	3.3
19:19:19 – 1 % (2 sprays) – July & Sep, 13: 0: 45 - 1 % (2 sprays) – Dec & Feb, IIHR Mango special nutrient mixture @ 5 g / l - 3 times / year (June – July, Nov- Dec and Feb – Mar)	6.2	28440	3.8

OFT 7. Assessing the performance of Tomato Hybrids

1.	Crop/ enterprise	Tomato
2.	Farming situation	Irrigated
3.	Problem definition	Yield loss due to the incidence Tomato spotted wilt virus and leaf curl virus
4.	Title of OFT	Assessing the performance of Tomato Hybrids
5.	No. of trials	05
6.	Technology Assessed	Performance of hybrids of tomato
7.	Parameters of assessment	No. of fruits per plant, Fruit weight, Fruit yield per plant
8.	Data on the parameter	No of fruits 61 for US 618 & 66 for COTH 2; Fruit weight 40g for US618 & 50g for COTH 2
9.	Results of assessment	COTH 2 performed better than the other hybrids
10.	Feedback from the farmer	COTH 2 performs better than US618. But the high fruit drop was noticed in case of COTH2.
11.	Any refinement done / needed	-
12.	Justification for refinement	-

Contd..

Technology Assessed	Production t/ha	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	16	17
US 618	57.0	1,50,000	2.5
COTH 2	65.5	1,72,000	3.1
Arka Ananya	60.2	1,58,400	2.8

OFT 8. To assess the performance of different types of seed materials in sugarcane

1.	Crop/ enterprise	Sugarcane
2.	Farming situation	Irrigated
3.	Problem definition	High sett cost
4.	Title of OFT	To assess the performance of different types of seed materials in sugarcane
5.	No. of trials	05
6.	Technology Assessed	a) Two budded setts b) Single budded setts
7.	Parameters of assessment	Planted during December 2009. Germination and plant stand is good.
8.	Data on the parameter	The trail is in progress. The yield and yield attributes will be reported in the 2010-11 annual report.
9.	Results of assessment	
10.	Feedback from the farmer	
11.	Any refinement done / needed	
12.	Justification for refinement	

Contd..

Technology Assessed	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
Two budded setts				
Single budded setts				

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

OFT 1

1. Title of Technology Assessed : **Assessment of Humiphos as an organic Phosphate source in Tapioca**
2. Problem Definition : Non availability of DAP
3. Details of technologies selected for assessment :
 - a). FP – Recommended dose
 - b). TO 1 – DAP @ 80Kg/ha, N & K as per recommendation (basal & top dress
 - c). TO 2 - Humiphos 100 kg per acre +Top dress
4. Source of technology : TNAU
5. Production system and thematic area : Irrigated and Selection of high yielding variety
6. Performance of the Technology with performance indicators :

Technology options	No. of tuber/plant (average)	Average weight of tuber/Plant (Kgs)
Recommended dose	6.6	5.2
DAP @ 80Kg/ha, N7K as per recommendation	7.2	6.5
Humiphos 100 kg per acre	9.0	7.3

(Parameters at 80 DAS)

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Humiphos can be used as an alternate source for DAP. The use of humiphos increases the yield
8. Final recommendation for micro level situation : As the application give good yield, the farmers can apply humiphos as a alternate source for DAP
9. Constraints identified and feedback for research : -
10. Process of farmers participation and their reaction : The farmers of near by areas were shown about the use of humiphos as an alternate source and their benefits

OFT 2

1. Title of Technology Assessed : **Assessment of suitable Turmeric variety for Dharmapuri District**
2. Problem Definition : Low yield of local varieties like Salem local
3. Details of technologies selected for assessment :
 - a). FP - Local variety (Salem local)
 - b). TO 1 - BSR – 1
 - c). TO 2 - BSR - 2
4. Source of technology : TNAU
5. Production system and thematic area : Irrigated and Selection of high yielding variety
6. Performance of the Technology with performance indicators :

Technology options	No. of plants/m ²	No. of leaves /plant	Plant height (cm)
Local variety (Salem local)	6.5	6.9	37.8
BSR-1	7.2	7.6	42.3
BSR-2	7.5	8.0	43.2

(Parameters at 80 DAS)

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : -
8. Final recommendation for micro level situation : Cultivation of BSR-2 variety recorded highest yield. It recorded 8.9 % over BSR-1 and 28.7 % over local variety
9. Constraints identified and feedback for research : Rhizome rot problem is high during rainy period
10. Process of farmers participation and their reaction : BSR 2 being a new introduction to this area, the farmers are experienced high finger size and high yield over other varieties

OFT 3

1. Title of Technology Assessed : **To assess the performance of different Ragi varieties under rainfed condition**
2. Problem Definition : Low yield of local varieties
3. Details of technologies selected for assessment : a). TO 1: Co 7+Recommended dose of fertilizers(RDF)
b). TO 2 – GPU 28 + RDF
c). TO 2 – Paiyur (Ra) 2 + RDF
d) TO 3 – MR 4 + RDF
RDF: 40:20:20(N:P:K)
4. Source of technology : TNAU
5. Production system and thematic area : Rainfed and Selection of high yielding variety
6. Performance of the Technology with performance indicators :

Technology options	No of tillers/hill	No. of fingers
Co 7	3	6
GPU 28	4	7
Paiyur (Ra) 2	5	9
MR 4	3	5

(Parameters at 80 DAS)

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : -
8. Final recommendation for micro level situation : Paiyur(Ra)2 is suitable for cultivation under rainfed condition
9. Constraints identified and feedback for research : -
10. Process of farmers participation and their reaction : Farmers field trip was arranged to show the performance of different varieties

OFT 4

1. Title of Technology Assessed : **To assess the efficacy of different sprays for management of Mealy bugs in Tube Rose**
2. Problem Definition : High incidence of mealy bug
3. Details of technologies selected for assessment : a) NSKE 5% (2 sprays)
b) Profenophos 2ml / lit (2 sprays)
a) Profenophos 2 ml / lit + Imidacloprid 0.5 ml / lit + Profenophos 2 ml / lit
4. Source of technology : TNAU
5. Production system and thematic area : Irrigated and IPM
6. Performance of the Technology with performance indicators :

Technology Assessed	Reduction in infestation (%)	Yield per plant (g)
NSKE 5% (2 sprays)	35	81.30
Profenophos 2 ml per lit (2 Sprays)	63	89.50
Profenophos 2 ml / lit + Imidacloprid 0.5 ml / lit + Profenophos 2 ml / lit	72	119.20

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : -
8. Final recommendation for micro level situation : Profenophos 2 ml / lit + Imidacloprid 0.5 ml / lit + Profenophos 2 ml / lit
9. Constraints identified and feedback for research : When the population is high, the recommended chemicals unable to control the menace of mealy bugs. The rotation of insecticides of different groups and modification in spraying techniques is to be given emphasis in further refinement
10. Process of farmers participation and their reaction : The farmers followed the technology as per the guidance

OFT 5:

1. Title of Technology Assessed : **To assess the age of seedlings in white Ponni (Long duration) under SRI**
2. Problem Definition : Problem in transplanting of 14 days old single seedling in White ponni
3. Details of technologies selected for assessment : TO 1- Planting 45 days old seedlings in normal planting
TO 2 - Planting of 14 days old single seedlings under SRI
TO3- Planting of 20 days old single seedlings under SRI
TO4- Planting of 25 days old single seedlings under SRI
4. Source of technology : TNAU
5. Production system and thematic area : Irrigated
6. Performance of the Technology with performance indicators :

Technology Assessed	No. of panicle/hill	Yield per plant (g)
Planting 45 days old seedlings in normal planting	19.80	232
Planting of 14 days old seedlings under SRI	37.6	267
Planting of 14 days old seedlings under SRI	32.8	260
Planting of 25 days old seedlings under SRI	27.8	258

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Farmers themselves counted the no. of panicles/hill and no. of grains /panicle during harvest stage.
8. Final recommendation for micro level situation : Transplanting of 14 days old single seedling of white Ponni recorded higher grain yield over the use of other aged seedlings
9. Constraints identified and feedback for research : Field leveling and square planting requires more man hours
10. Process of farmers participation and their reaction : Field day was conducted during harvest stage, Later they had the interaction with scientists and expressed their confidence for planting 14 days old single seedlings of white Ponni under SRI.

OFT 6

- 1 Title of Technology Assessed : **Assessment of Foliar Nutrition cum fertilizer application in Mango**
- 2 Problem Definition : Poor yield due to inadequate nutrient management
- 3 Details of technologies selected for assessment : a) FYM @ 40 kg / tree
b) FYM/compost @ 50 kg / tree, NPK @ 1:1: 1.5 kg / tree, Urea spray @ 1 % solution
c) 19:19:19 – 1 % (2 sprays) – July & Sep, 13: 0: 45 - 1 % (2 sprays) – Dec & Feb, IIHR Mango special nutrient mixture @ 5 g / l - 3 times / year (June – July, Nov- Dec and Feb – Mar)
- 4 Source of technology : TNAU, IIHR
- 5 Production system and thematic area : Irrigated , INM
- 6 Performance of the Technology with performance indicators :

Technology Assessed	Yield per tree (Kg)	Yield per ha(t)
FYM @ 40 kg / tree	21.5	4.3
FYM/compost @ 50 kg / tree, NPK @ 1:1: 1.5 kg / tree, Urea spray @ 1 % solution	27.5	5.5
19:19:19 – 1 % (2 sprays) – July & Sep, 13: 0: 45 - 1 % (2 sprays) – Dec & Feb, IIHR Mango special nutrient mixture @ 5 g / l - 3 times / year (June – July, Nov- Dec and Feb – Mar)	31.0	6.2

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :
8. Final recommendation for micro level situation : 19:19:19 – 1 % (2 sprays) – July & Sep, 13: 0: 45 - 1 % (2 sprays) – Dec & Feb, IIHR Mango special nutrient mixture @ 5 g / l - 3 times / year (June – July, Nov- Dec and Feb – Mar)
9. Constraints identified and feedback for research : Spraying in mango is found to be difficult due to labour problem
10. Process of farmers participation and their reaction : Farmers are reluctant in spraying; they prefer soil application of fertilizers

OFT 7

1. Title of Technology Assessed : **Assessing the performance of Tomato Hybrids**
2. Problem Definition : Yield loss due to incidence of Tomato spotted wilt virus and leaf curl virus
3. Details of technologies selected for assessment :
 - a) US 618 (private)
 - b) COTH 2 (TNAU)
 - c) Arka Ananya (IIHR)
4. Source of technology : TNAU, IIHR
5. Production system and thematic area : Irrigated , ICM
6. Performance of the Technology with performance indicators :

Technology Assessed	No. of fruits per plant	Fruit weight (g)	Fruit yield per plant (Kg)	Yield per ha (t)
US 618	61	40	2.4	57.0
COTH 2	66	50	2.8	65.5
Arka Ananya	62	35	2.1	60.2

- 7 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :
- 8 Final recommendation for micro level situation : COTH 2
- 9 Constraints identified and feedback for research : Fruit drop in COTH 2
- 10 Process of farmers participation and their reaction : Farmer meeting was arranged to show the performance of hybrids in the field.

OFT 8

1. Title of Technology Assessed : **To assess the performance of different types of seed materials in sugarcane**
2. Problem Definition : High sett cost
3. Details of technologies selected for assessment :
 a) Two budded setts
 b) Single budded setts
4. Source of technology : -
5. Production system and thematic area : Irrigated , ICM
6. Performance of the Technology with performance indicators : Germination and plant stand was good in the main field. The OFT is in progress. The yield and yield attributes will be reported in the 2010-11 annual report

Technology Assessed		
Two budded setts		
Single budded setts		

- 7 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :
- 8 Final recommendation for micro level situation :
- 9 Constraints identified and feedback for research :
- 10 Process of farmers participation and their reaction :

4.D1. Results of Technologies Refined

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology refined	Parameters of refined t	Data on the parameter	Results of refinement	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
-Nil-											

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

-Nil-

5.A. 1. Soil fertility status of FLDs plots during 2009-10

Sl. 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	Irrigated	Sunflower	Rabi 09-10	-	KBSH41	INM	INM	L	M	M	Brinjal
2.		Irrigated	Groundnut	09-10	TMV (Gn) 13		HYV	ICM	L	L	M	-
3.		Irrigated	Sesame	Rabi 09-10	VRI (Sv)2		HYV	ICM	L	M	M	Ragi
4.	Pulses	Irrigated	Black gram	Rabi 09-10	TMV (Gn) 13		HYV	ICM	L	L	M	Rice
5.	Cereals	Irrigated	Rice	Kharif 09-10	CO (R) 49		SRI	ICM	L	L	M	Groundnut
6.		Irrigated	Wheat	Rabi 09-10	COW (W) 1		New crop	ICM	L	M	M	Paddy
7.	Millets	Rainfed	Ragi	Kharif 09-10	CO (Ra) 14		Variety	ICM	L	L	M	Redgram
8.		Irrigated	Maize	Kharif 09-10		NK 6240	INM	ICM	L	M	L	Tomato
9.	Vegetables	Irrigated	Brinjal	Rabi 09-10	Mahyco 10		IPM	IPM	L	L	M	Tomato
10.		Irrigated	Lablab	Rabi 09-10	Arka jay		Popularisation	ICM	L	M	M	Maize
11.	Fruit	Irrigated	Banana	Kharif 09-10		G 9	IPM	IPM	L	L	M	-
12.	Spices and condiments	Irrigated	Onion	Rabi 09-10	CO(On)5		Popularisation	ICM				-
13.	Fodder	Irrigated	Cumbu Napier			CO (CN) 4	Popularisation	ICM	L	M	M	
14.			Fodder cowpea			CO (FC) 8	Popularisation	ICM	L	L	M	
15.	Plantation	Irrigated	Coconut		ECT		INM	INM				-

5.B. Results of Frontline Demonstrations

FLD 1. Popularization of paddy variety CO (R) 49 with SRI

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)				
						Demo		Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
						H	L	A										
Paddy	Introduction of improved paddy variety and SRI Technology	CO (R) 49	Irrigated	10	4	71.1	59.5	65.30	48.30	35.20	21863	61608	39745	2.82	26042	45543	19501	1.75

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

Parameter with unit	Demo	Local
No. of panicles/hill	41.5	16.50
No. of grains/panicle	267	235

FLD – 02. Popularization of Ragi variety CO (Ra) 14 under Irrigated condition

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
							H	L	A										
Ragi	Cultivation of Ragi variety CO (Ra) 14	CO (Ra) 14	---	Irrigated	10	4	15.23	10.30	12.20	8.45	14.52	5600	12200	6600	2.21	4500	8450	3950	1.87

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
No.of tillers / hill	8.30	6.85
No. of earhead /hill	7.30	6.10

FLD 3. Popularization of INM in Hybrid Maize

Crop	Name of the technology demonstrated	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
						H	L	A										
Maize	RDF150:60:60 of N:P:K Kg/ha+ Micro nutrient application	NK 6240	Irrigated	10	4	110	81	96	63	52	15000	55000	40000	3.7	12000	37200	25200	3.1

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

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

FLD 4. Popularization of IPM practices for Banana Pseudo stem Weevil

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
						H	L	A										
Banana	Pseudo Stem Injector Monocrotophos & Beauveria bassiana	G 9	Irrigated	10	4	520	390	455	365	25	200000	600000	400000	3.0	225000	520000	295000	2.31

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
% of reduction in infestation	20	-

FLD 5. Popularization of IPM Module for Brinjal Shoot & Fruit Borer

Crop	Name of the technology demonstrated	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
						H	L	A										
Brinjal	IPM for Brinjal shoot & fruit borer	Mahyco 11	Irrigated	10	4	300	235	268	240	12	50000	150000	100000	3.0	55000	150000	95000	2.72

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
% reduction of infestation	27	-

FLD 6. Popularization of INM in Coconut by using TNAU coconut Tonic

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Yield (nuts/tree)			Check	% Increase	*Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo					Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
						H	L	A										
Coconut	INM in coconut	ECT	Irrigated	10	4	136	118	127	98	29.6	11235	56198	44963	5.0	9270	34692	25422	3.7

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
No. of fronds per tree	18.20	14.00
No. of spathes per tree	7.00	5.50
No. of nuts per tree	127.0	98.0

FLD 7. Popularization of Cumbu Napier Hybrid grass CO (CN) 4

Crop	Name of the technology demonstrated	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
						H	L	A										
Cumbu Napier Hybrid grass	Cultivation of Cumbu Napier Hybrid grass CO (CN) 4	CO (CN) 4	Irrigated	10	1	3400	2900	3150	2800	12.5	10000	40000	30000	4.0	10000	30000	20000	3.0

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

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

FLD 8. Popularization of Fodder cowpea CO (FC) 8

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demo			Ch eck		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
						H	L	A										
Fodder cowpea	Introduction of fodder cowpea CO(FC) 8	CO(FC) 8	Irrigated	10	2	192	154	173	130	33.0	16250	34600	18350	2.13	15234	26525	11291	1.74

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

Parameter with unit	Demo	Local
Plant height (cm)	70.8	64.20
Pod length (cm)	13.2	11.20
No. of pods/plant	12.4	9.50
No. of seeds/pod	14.4	11.50

FLD 9. Introduction of new Wheat variety COW (W) 1

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
						H	L	A										
Wheat	Introduction of new crop wheat COW(W)1	COW(W)1	Irrigated	5	1	25	19	22	16	37.50	23300	48425	25125	2.08	Since wheat is new crop no check variety is available			

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

Parameter with unit	Demo
Plant height (cm)	68.6
No. of seeds/ear head	32.1
Ear head length (cm)	11.8

FLD 10. Popularization of CO (On) 5 Onion

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
						H	L	A										
Onion	Popularization of CO (On) 5 Onion	CO (On) 5	Irrigated	10	2	120	85	103	92	11.9	40,000	1,23,600	83,600	3.09	35,000	92,000	57,000	2.62

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
Plant height	42.0	37.4
No. of leaves per plant	8.2	7.4
No. of bulbs per plant	40.5	38.1
Yield per plant (g)	70.6	52.8

FLD 11. Popularization of Banana bunch cover

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Quality of fingers (% of fruits under grade 1)				% 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										
Banana	Banana bunch cover	G9	Irrigated	8	0.64	97	90	93.5	60	55.3	2,00,000	6,00,000	4,00,000	3.0	1,60,000	4,60,000	3,00,000	2.87

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
Bunch weight	22.5	22.0
No. of hands per bunch	10.0	10.0
No. of fingers per hand	19.8	19.2
Visual appearance of fingers	Excellent	Average

FLD 12. Popularization of TNAU improved Turmeric boiler

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
						H	L	A										
Turmeric	TNAU improved Turmeric boiler	Salem local	Irrigated	20	10	-	-	-	-	-	70,000	8,20,000	7,50,000	11.7	1,10,000	8,00,000	6,90,000	7.3

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 (Turmeric Boiler)	Local (Conventional)
% of fuel saved	40	-
Water requirement	500 l/t	2500 l/t
% of Labour saved	50	
Time taken to boil 400Kg fresh rhizome	20min	45min

FLD 13. Management of Fruit Fly in Mango

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
						H	L	A										
Mango	Use of Methyl eugenol trap	Bangalura	Irrigated	12	4	86	56	71	58	25	7440	40000	32560	5.3	6000	30000	24000	5.0

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 (use of trap)	Local (No trap)
% reduction of infestation	22	-
Yield/tree	30 kg	16 kg

FLD 14. Popularization of bush type lab-lab variety-Arka vijay.

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
						H	L	A										
Lab lab	Introduction of bush type lablab	Arka vijay	Irrigated	10	1	700	550	630	550	14.5	22,000	63,000	41,000	2.8	20,000	55,000	35,000	2.7

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
Plant height (cm)	55.0	60.5
No of pods per plant	27.0	22.5
Yield per plant (g)	126.0	111.0

FLD 15. Popularization of Chaff Cutter among Livestock farmers through Public private partnership

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./month)				Economics of check (Rs./month)				
							Demo				Check	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
							H	L	A										
	Use Chaff Cutter	-	-	-	8 groups	-					1000	3000	2000	2.00	900	2500	1600	2.77	

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

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

5.B.1. Oilseeds:

5. B.1. Oilseeds: Popularization of Sunflower Hybrid – KBSH41 with INM

Crop	Name of the technology demonstrated	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	** BCR
						H	L	A										
Sunflower	KBSH41 with INM	KBSH 41	Irrigated	12	5	17.23	14.24	16.28	10.23	62.2	16200	36656	20520	2.3	13920	22500	8450	1.60

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
Weed count no/m²		
<i>Cyperus rotundus</i>	5.3	8.9
Parthineum	4.2	6.5

Oilseeds: Popularization of HYV and ICM practices in Groundnut

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)			% Increase	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)				
						Demo				Check	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	** BCR
						H	L	A										
Groundnut	HYV+ICM	TMV(Gn)13	Irrigated	12	5	15.6	11.5	13.2	9.5	70	7500	15840	8340	2.1	7000	10400	3400	1.5

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

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

Oilseeds: Popularization of HYV and ICM practices in Sesame

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	** BCR
						H	L	A										
Sesamet	HYV+ICM	VRI(Sv)2	Irrigated	12	5	7	3	5	3	40	7000	20000	15000	2.9	5000	11400	5400	2.3

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

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

5.B.2. Pulses: Popularization of HYV and ICM practices in Black gram

Crop	Name of the technology demonstrated	Variety	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)				
						Demo				Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
						H	L	A										
Blackgram	HYV and ICM	VBN(Bg) 3	Irrigated	12	5	6	4	5	3.4	40	5200	22500	17300	4.3	4400	14000	9600	3.2
	Total			12	5													

* 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 in weed/pest/diseases etc.)

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

5.B.3. Other crops - Nil

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)				
							Demo				Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Nil																			

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

** BCR= GROSS RETURN/GROSS COST

5.B.4. Livestock

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	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										
Nil																	

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

** BCR= GROSS RETURN/GROSS COST

5.B.5. 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./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										
Nil																	

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

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

5.B.6. 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./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										
Nil																	

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

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

5.B.7. Farm implements and machinery

Name of the implement	Name of the technology demonstrated	No. of Demo	Units/ Area (m ²)	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									
Nil															

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

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

5.B.8. Cotton

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	
	Production Technology	ICMP	SVPR1	RCH20Bt	Khariif 09-10	20	20	6	44	50	-
	IPM										
	Farm Implements										

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
Irrigated	ICMP	10	25	-	RCH 20 Bt	19.51	15.16	26.38	13,850	51,428	37578	2.71	10,500	34,868	24368	2.32
Rainfed	ICMP	10	25	SVPR 2		13.18	10.10	30.00	10,500	30,314	19814	1.88	8,850	22220	13370	1.51

Performance of Bt hybrids, Desi hybrids, non-Bt hybrids and Varieties in Front Line Demonstrations in cotton during 2009-10

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
Bt hybrids	Irrigated	ICMP	10	25		RCH 20 Bt	19.51	15.16	26.38	13,850	51,428	37578	2.71	10,500	34,868	24368	2.32
Hirsutum Varieties	Rainfed	ICMP	10	25	SVPR 2		13.18	10.10	30.00	10,500	30,314	19814	1.88	8,850	22220	13370	1.51

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
Nil																			

Demonstrations on farm implements

Name of the implement	Area (Ha)	No. of Demo.	Name of the technology demonstrated	Details on parameters		
				Demo	Local check	BCR
Nil						

Extension Programmes organized in Cotton Demonstration Plots

Extension activity	No. of Programmes	Participants			SC/ST		
		Male	Female	Total	Male	Female	Total
Consultancy							
Conventions	5	25	5	30	2	1	3
Demonstrations	10	72	25	97	8	5	13
Diagnostic surveys	8	55	12	67	5	2	7
Exhibition							
Farmer study tours							
Farmers Field school							
Field Days	2	80	12	92	8	5	13
Field visits	5	85	24	109	10	6	16
Gram sabha							
Group discussions	5	65	23	88	-	-	-
Kisan Gosthi							
Kisan Mela							
Training for Extension Functionaries							
Training for farmers	6	160	25	185	15	10	25
Viedo show	6	160	25	185	15	10	25
Newspaper coverage	2						
Popular articles							
Publication							
Radio talks							
T.V. Programme							
Others (Pl.specify)							
TOTAL	47	702	151	853	63	39	102

Technical Feedback on the demonstrated technologies on all crops / enterprise

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1.	Paddy	SRI	High economic returns
2.	Maize	Hybrid maize introduction (Syngenta NK 6240)	Higher yield and good quality grains
3.	Wheat	Introduction of wheat	Performance of November sown crops were good than late sown
4.	Ragi	Production technology	High yield
5.	Banana	IPM for banana pseudostem weevil	Pest management cost is minimized and is effective
6.	Banana	Banana bunch cover	Higher returns due to improvement in quality of fruits
7.	Brinjal	IPM for shoot and fruit borer	Yield loss due to borer is reduced
8.	Onion	Onion variety - CO (On) 5	High yield and economic returns
9.	Lablab	High yielding variety Arka Vijay	High yield and better returns
10.	Turmeric	Turmeric variety for higher productivity	High economic returns
11.	Coconut	INM	Nut size increased and High yield
12.	Fodder grass	Cumbu Napier CO (CN) 4	Fodder preferred by the cattle

Farmers' reactions on specific technologies

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1	Mango	Methyl eugenol trap for fruit fly	Better control of fruit fly; hence yield loss is reduced
2	Turmeric	Turmeric boiler	Processing is easier, time and labour saving; cost effective

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	6	350	
2	Farmers Training	20	425	
3	Media coverage	03	---	
4	Training for extension functionaries	02	40	

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																	
Maize	Hybrid maize introduction	Syngenta NK 6240	10	4	110	81	96	63	52	15000	55000	40000	3.7	12000	37200	25200	3.1
Oilseeds																	
Sunflower	Popularization of Sunflower Hybrid – KBSH41 with INM	KBSH41	12	5	17.23	14.24	16.28	10.23	62.2	16200	36656	20520	2.3	13920	22500	8450	1.6
Pulses	NIL																
Vegetable crops																	
Commercial crops																	
Fodder crops	Cumbu Napier Hybrid Grass	CO (CN) 4	10	1	3400	2900	3150	2800	12.5	10000	40000	30000	4.0	10000	30000	20000	3.0
Total			32	10													

H-High L-Low, A-Average

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	02	40	25	68	2	-	2	42	28	70
Cropping Systems	03	68	42	110	4	8	12	72	50	122
Integrated Farming	03	61	38	99	5	4	9	56	42	108
Integrated Crop Management	04	78	34	112	7	4	11	85	38	123
Integrated Nutrient Management	03	84	27	111	10	02	12	94	29	123
Others (pl.specify) Improved production technology	03	95	27	122	5	-	5	100	27	127
Horticulture										
a) Vegetable Crops										
Others (pl.specify) Precision farming	10	290	10	300	08	02	10	298	12	310
b) Fruits										
Layout and Management of Orchards	2	47	22	69	2	4	6	49	26	75
Plant propagation techniques	2	60	5	65	2	-	2	62	5	67
c) Ornamental Plants										
Management of potted plants	1	35	-	35	-	-	-	35	-	35
d) Plantation crops										
e) Tuber crops										
f) Spices										
g) Medicinal and Aromatic Plants										
Soil Health and Fertility Management										
Livestock Production and Management										
Home Science/Women empowerment										
Value addition	2	32	22	54	2	2	4	34	24	58

Agril. Engineering										
Post Harvest Technology	4	112	20	132	2	4	6	114	24	138
Plant Protection										
Integrated Pest Management	8	145	35	180	12	14	26	157	49	216
Integrated Disease Management	2	25	24	49	5	4	9	30	28	58
Fisheries										
Production of Inputs at site										
Capacity Building and Group Dynamics										
Agro-forestry										
TOTAL	49	1172	331	1506	66	48	114	1228	382	1630

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 Farming	4	125	25	150	10	15	25	135	40	175
Seed production	1	28	12	40	5	7	12	33	19	52
Integrated Crop Management	6	120	41	161	13	10	23	133	51	184
Horticulture										
a) Vegetable Crops										
Others (pl.specify) Precision farming	4	118	-	118	12	-	12	130	-	130
Vegetable production in Pandal system	3	88	13	101	8	9	17	96	22	118
b) Fruits										
Plant propagation techniques	2	67	17	84	2	4	6	69	21	80
Others (pl.specify) Datepalm cultivation	4	102	8	110	6	-	6	108	14	122
c) Ornamental Plants										
d) Plantation crops										
e) Tuber crops										
f) Spices										
g) Medicinal and Aromatic Plants										
Soil Health and Fertility Management										
Soil fertility management	2	82	17	99	6	6	12	88	23	111
Livestock Production and Management										
Feed and Fodder technology	3	98	42	140	12	11	23	110	53	163
Home Science/Women empowerment										
Agril. Engineering										
Post Harvest Technology	2	47	12	59	8	-	8	55	12	67
Others (pl.specify) Drip system maintenance	2	55	7	62	-	-	-	55	7	62

Plant Protection										
Integrated Pest Management	10	258	52	310	12	9	21	270	61	331
Integrated Disease Management	4	110	22	132	15	3	8	125	25	150
Fisheries										
Production of Inputs at site										
Capacity Building and Group Dynamics										
Agro-forestry										
TOTAL	47	1298	268	1566	109	74	173	1407	348	1745

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
Mushroom Production	2	42	37	79	8	5	13	50	42	92
Post Harvest Technology	4	130	-	130	7	-	7	137	-	137
TOTAL	6	172	37	209	15	5	20	187	42	229

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
Mushroom Production	1	8	28	36	5	4	9	13	32	45
Value addition	2	40	25	65	8	13	21	48	38	86
Post Harvest Technology	4	128	5	133	2	1	3	130	6	136
TOTAL	7	168	58	234	15	18	33	191	76	267

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	65	7	72	1	-	1	66	7	73
Integrated Pest Management	1	45	5	50	-	-	-	45	5	50
Any other (pl.specify) DEMI Market intelligence	1	56	21	77	4	7	11	60	28	88
Total	3	166	33	199	5	7	12	171	40	211

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
Production and use of organic inputs	1	42	2	44	1	1	2	43	3	46
Total	1	42	2	44	1	1	2	43	3	46

7.G. Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Crop production and management											
2	Production and value addition											
3.	Soil health and fertility management											
4	Production of Inputs at site											
5	Methods of protective cultivation											
6	Others (pl.specify) Precision farming	10	290	10	300	8	2	10	298	12	310	
7	Post harvest technology and value addition											
8	Farm machinery											
9.	Livestock and fisheries											
10	Livestock production and management											
11.	Home Science											
12	Agricultural Extension											
	Total	10	290	10	300	8	2	10	298	12	310	

Details of sponsoring agencies involved

1. National Agricultural Development Project (NADP)

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

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Crop production and management											
1.e.	Organic farming	1	15	15	30	1	2	3	16	17	33	
2	Post harvest technology and value addition											
2.a.	Value addition	1	19	18	37	-	2	2	19	20	39	
3.	Livestock and fisheries											
4.	Income generation activities											
4.a.	Vermi-composting	1	10	17	27	2	2	4	12	19	31	
4.e.	Seed production	1	6	25	31	4	-	4	10	25	35	
4.g.	Mushroom cultivation	1	4	19	23	2	3	5	6	22	28	
5	Agricultural Extension											
	Grand Total	5	54	94	148	9	9	18	63	103	166	

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	7	440	54	494	15	17	32	8	4	12
Kisan Mela	1	244	102	346	28	14	42	7	4	11
Exhibition	5	560	250	810	40	35	75	34	18	52
Film Show	22	650	50	700	15	5	20	10	2	12
Method Demonstrations	10	135	15	150	10	9	19	10	2	12
Group meetings	5	109	46	155	19	8	27	10	2	12
Lectures delivered as resource persons	482	3113	448	3561	270	112	382	50	12	62
Newspaper coverage	10									
Popular articles	5									
Extension Literature	8									
Advisory Services	180	515	68	583	25	15	40	12	4	16
Scientific visit to farmers field	200	615	254	869	64	32	96	48	13	61
Farmers visit to KVK	-	358	28	386	75	15	90			
Diagnostic visits	84	498	202	700	78	32	110	52	24	76
Exposure visits	54	650	50	700	15	5	20	10	2	12
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	11	152	75	227	28	12	40	12	12	24
Mahila Mandals Conveners meetings	2	52	48	100	7	8	15	15	4	19
Any Other (Specify)										
ATMA	10							170	54	224
Water Shed Development	10							187	26	213
Grievances day	10	992	05	997	116	15	121	120	85	205
ACP	10							115	75	190
NADP PF	12							250	17	267
Total	1138	9083	1695	10778	805	334	1129	1120	360	1480

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Wheat	Co (w)-1		0.1 quintal		
	Horse gram	Paiyur -2		0.2 quintals		
Pulses	Bengal gram	JG -11		0.5 quintals		
Spices	Turmeric	BSR - 1		5.5 quintals		
		BSR - 2		31 quintals		
Total				37.3 quintals		

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
Fodder crop saplings	Cumbu Napier Hybrid		Co (CN) 4	40,000 slips	20,000.00	
Total				40,000	20,000.00	

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		Nil		
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others (specify)				
Total				

9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals			Nil	
Poultry				
Piggery				
Fisheries				
Total				

PART X – PUBLICATION, SUCCESS STORY, SWTL**10. A. Literature Developed/Published (with full title, author & reference)**

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

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	Performances of Comb cutter in Banana	R. Sivakumar P. Sridhar	-
Technical reports	Action Plan Report Action plan and Annual report for FLD cotton, Oilseeds and pulses. Annual Report SAC Reports Export Committee Reports OFT -Reports NHM Report NADP Reports Assessment on Watershed Reports Technical Review Report Achievements Report Special assignments reports(Rain water harvesting)		-
News letters	KVK Newsletter		1000
Technical bulletins	-	-	-
Popular articles	Role of Micronutrients in Plants, deficiency symptoms & Management in horticultural crops.	R. Sivakumar P. Sridhar	-
	Nutrient deficiency in Tapioca & Its Management		
Extension literature (Booklet/ leaflets)	Management of Mealy bugs	R.Jansirani P. Sridhar M. Arumugam C. Sivakumar R. Sivakumar	500
	Integrated nutrient and crop management in Tomato	R.Jansirani P. Sridhar	250
	ICM in Blackgram	R.Jansirani P. Sridhar K.Kumutha	500
	INM in Gingelly	R.Jansirani P. Sridhar P.S.Shanmugam	500
	IPM & INM in Groundnut	R.Jansirani P. Sridhar K. Indhumathi	500
	ICM in Sunflower	R.Jansirani P. Sridhar N.A. Saravanan	500

10.B. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	DVD	A Successful cluster approach on vegetable cultivation – A case study	100

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).

a. **Title of the Case Study** : **A successful cluster approach on vegetable cultivation – a case study**

b. **Situation / Back Ground :**

In Moolayanur village, Pappiredipatty block, Dharmapuri district many farmers are cultivating vegetables viz., bitter gourd, snake gourd, musk melon and ribbed gourd individually and they sale their produces either in local markets or through local merchants . They are not getting proper price for their produce and so the intensity of cultivation gets reduced. The non availability of proper marketing channels is the major cause. In this circumstances, Mr.Samikannu, an active farmer of that village contacted the KVK, Papparapatty for the technical guidance to improve the cultivation and marketing .By listening his views, the KVK felt the need to impart training on improved cultivation aspects and innovative marketing to the farmers of that village and organized training programme on these aspects. Apart from this, the need of group cultivation is also emphasized.

c. **Interventions (Process & Technology)**

The training programmes were arranged on precision farming technologies. The group approach in the precision farming will give better market for the produce.The interested farmers joined and started a group called “Kavinghar Kannathasan farmers Group” and registered under District Registrar, Dharmapuri (Reg. No.64/2010).They are getting financial assistance from NABARD for their interactive meetings and other activities related to the association

The improved management practices viz., seed treatment, fertigation, weed management, Integrated Pest and Nutrient Management etc. were followed as per the advice of KVK, Dharmapuri . The paradigm shift created interest among the growers and they followed all the activities as per the schedule. The exposure visit to other districts motivated them to create a new system of structures using nylon nets (cost effective)for gourds instead of growing in pandal systems using G.I wires. This reduces the cost of production , yield loss and improved the quality. It is a semi permanent system for growing gourds. The adoption of improved cultivation practices gave good yield.

One interesting aspect of this group is the cultivation of different vegetables viz., bitter gourd, ribbed gourd, snake gourd, brinjal, bhendi and tomato. This avoids the bulk marketing. Since they are taking different types of vegetables to the market, they are able to get better price rather than taking a single vegetable in bulk quantity. Every farmer of the group has registered in the DMI (Dynamic market intelligence) through mobile for each vegetable. So they are getting the information on the market price for all the vegetables which facilitate them to select the better

market. Also the KVK has imparted them with market intelligence training. Now the farmers were adopting the cluster approach in cultivation practices and marketing. Through this they are getting 90 % uniform produce, this ultimately fetches good market.

Further, the group members make an informal discussion every evening regarding their day to day activities. This helps them in improving their activities besides solving and managing their field problems. Frequently they contact the KVK scientists for their field problems.

d) Impact (Horizontal spread, Economic gains & Employment generation):

Adoption of precision farming techniques is increased the area under each crop from 0.5 acre to 1.0 acre. Out of 15 farmers in a group, 60% of farmers (More or less – 8) have increased their area. Total area under vegetable cultivation has also increased from 200-300 acre at present in that block. This shows the horizontal spread of the technology. Adoption of improved management practices increased the production as well as productivity. The yield is significantly increased from 15 tons per acre to 25-27 tons per acre. The CB ratio was as 1: 6, which shows the economic benefit of the farmers. The success of this group's approach towards cultivation of vegetables and marketing, serve as a model for that village and also to the neighboring villages.

The improved cultivation system of growing vegetables in Precision farming had lead to tremendous influence in the village. Yield increase in to the tune of 100-150 % than the traditional cultivation practices made the farmers highly satisfied. The quality of vegetables such as size, shape, colour, and self life are also improved.

The training imparted to them increased their ability to search better marketing places and collectively sale their produces. During offseason also they are able to harvest good produce and returns. This creates confidence among the farmers and they are now in a position to train the neighboring nuclear farmer's to adopt the group approach.

As a result, they serve as role model in the particular village. Even the unemployed youth of this village was also motivated to join this group. Mr. Gowrishankar, S/o Mari age of 22 years has involved himself in cultivation of vegetables based on the interest he got through Kavinghar Kannathasan farmers Group. This is the good sign for involving youth in farming activities. Yet another four groups are coming up in this village based on the growth and development of this group.

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

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Red gram	Red earth mixing with red gram	For avoiding storage pest damages
2	All Gourds family	Gourds seeds were persevered in bottle gourd dry fruit sac	To preserve shelf life of seeds.
3	All Gourds family	Gourds seeds mixed with cow dung and preserved in dried cake	To preserve longevity of seeds.

4	All Gourds family	Snake gourd (<i>Trichosanthes anguima</i>) and Ridged gourd (<i>Luffa acutangula</i> spp) seeds were mixed with ashes	For preserving germination till next season
5	All gourds family	Use of fishnet instead of GI wires and threads	To improve the quality of fruits
5	Millet grains	Grains were mixed with neem leaves	For avoiding pest damages
6	Vegetables	Spraying panchakaviya	For avoiding pest damages and nutritive value of pest crops
7	Vegetables	Spraying of 2% butter milk	To control aphid in Vegetables
8	Moringa	Dry fish with few drops of Malathion in cotton, where kept in a perforated plastic bags	For avoiding fruit fly damages

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

Identification of courses for farmers visits	Farm and home & PRA
Identification of courses for Farm women	Group discussion
Rural Youth	Personal contact, e-media & PRA
Inservice personnel	Interactive workshop & Brain storming

10.G. Field activities

- i. Number of villages adopted : 22
- ii. No. of farm families selected : 180
- iii. No. of survey/PRA conducted : 34

10.H. Activities of Soil and Water Testing Laboratory – SWTL was not established in this KVK

PART XII 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./ ha)	After (Rs./ ha)
Precision Farming – Vegetables (Brinjal)	100	25 %	1,70,000	6,40,000

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)**

Precision Farming

- ❖ The farming project on Precision Farming as a turnkey project was a challenging assignment to KVK, Pappalapatty. When the multinational had quoted Rs 17.50 crores for the project, the TNAU has quoted a realistic budget of Rs 7.20 crores. Rs 36.00 lakhs were allotted to this KVK, Pappalapatty. The Precision Farming was first implemented during 2007-08. It took nine months to select 100 farmers even when there was no need for the farmers to invest for drip system (Rs 75,000/-) and cultivation expenses (Rs 40,000), the reason for unwillingness was immediately not known but the TNAU- KVK Subject Matter Specialist came to understand that there was an element of hopelessness in the minds of the farmers and disinterest in any of the developmental schemes of the government.
- ❖ Later, the TNAU and KVK scientists had discussed, interacted and convinced few farmers after many rounds of sittings under tree, at farmer's homes and fields. Few came forward to bring with, when drip was installed in the few farms. When the community nursery was established for the village few farmers came forward on their own and discussed about the project, few more had joined the project the target of 100 farmers increased. When the crop of chillies and tomatoes were planted there was a total attraction **“something is amusing.”**
- ❖ The following key technologies were disseminated to the farmers of Precision Farming viz. remote sensing technology, chisel plough, high tech community nursery, drip and fertigation, growing crops and market support. The physical target of 100 ha was brought under PF during 2007-08.
- ❖ Cluster level associations are formed and functioning very effectively and collectively for better production and marketing. Buyer - seller meet with association has become a routine practice. The input suppliers were made to make a presentation on their products and the association was able to procure inputs at distributors rate as the purchase was for the entire cluster.
- ❖ The 200 precision farmers of Dharmapuri district have contributed Rs 10,000 each and incorporated a company called **“ Dharmapuri Precision Farmers Agro services Limited ”** It was the first of such producer company in Tamil Nadu.

- ❖ The produce from precision farms were rated as super grade in all the markets and offered premium prices throughout the year. The farmers use the logo on crates when they sort, grade and pack the produce to market.

- ❖ Eg. Yield

Tomato one bag of conventional method yields - 20Kg

Tomato one bag of PF methods - 25kg.

- ❖ **Water economy**

30-40% water economy was ensured in all the precision fields.

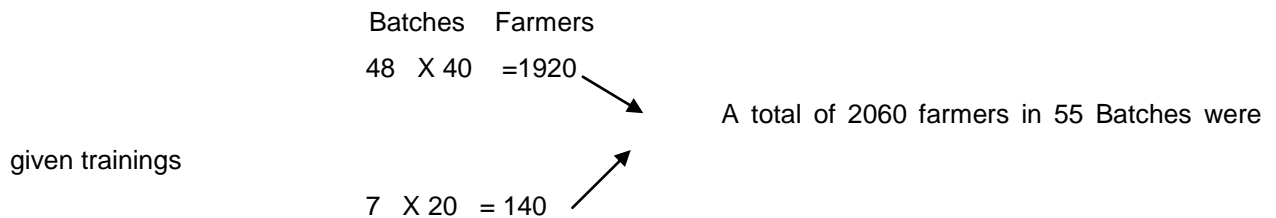
- ❖ **Extended crop harvest.**

The harvest of crops like Tomato / chilies and Brinjal could be extended by 3-4 months. This factor ensures good price and avoids gluts in the market.

- ❖ **Eased out farm management**

The precision farmers, farm women, youth, had the hands on training on community nursery, fertigation, crop geometry and plant protection measures so the precision farming protocol eased out all the agriculture operations and the farmers are now comfortable with technologies.

- ❖ The farmers of other districts such as Tiruvenanamalai, Vellore, Perambalur, Karur, Trichy, Namakkal, Covai and Erode have visited the practices of Precision Farming farmers of Dharmapuri district from Sep-08- to Sep-09.



The success of the project, proves that the other district farmers are still visiting the practices of Precision Farming at Dharmapuri district.

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

Pretest was conducted and structured interview schedule. The same has been issued to the precision farming farmers and the response was collected. The analysis and interpretation results is under progress.

PART XII - LINKAGES

12.A. Functional linkage with different organizations

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

S.No	Name of organization	Nature of linkage
1.	National Horticulture Mission	Conducting training programmes to the farmers and funds were received for establishment of a big model nursery in Mango in the KVK farm
2.	ATMA	Participation in meeting, FLD & OFT and conducting training programmes
3.	AME Foundation	Conducting training programmes.
4.	State Agricultural Departments	Joint diagnostic survey, participation in meeting, conducting training programmes and demonstrations.
5.	Dharmapuri Precision Farmers Agro Services Ltd	Supply of inputs Conducting demonstrations and e-Marketing
6.	Surabi-NGOs	Participating in demonstrations and trainings to SHGs
7.	State PWD department	Activities of IAMWARM

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.)
NHM	September - 2007	NHM	18, 00, 000

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district - Yes

S. No.	Programme	Nature of linkage	Remarks
1.	Frontline demonstration a. Improved crop management practices in black gram in comparison with farmers practice	To conduct front line demonstration on black gram in improved crop	It ensures creation of awareness among the farmers for adoption of improved crop production technologies in black gram/pulses

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

S. No.	Programme	Nature of linkage	Constraints if any
1.	Establishment of a model nursery in Mango	Funded by NHM	-

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

S. No.	Programme	Nature of linkage	Remarks
		NIL	

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	
1.	Slatted floor goat rearing	2009	57.80 m ²	Purchase of goat is under progress					

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 (Kg)	Cost of inputs	Gross income	
Cereals Paddy	07.09.2009	03.03.2010	0.01	Co(R) 49	TFL	59	-	-	-
Paddy	07.09.2009	03.03.2010	0.04	IWP	TFL	480	-	-	-
Wheat	01.12.2009	03.03.2010	0.01	CoW(W)1	TFL	103	-	-	-
Pulses – Green gram	14.01.2009	03.04.2009	0.40	ADT 3	Breeder Seeds	50	1,300	4,800	---
Red gram	08.09.2009	29.01.2010	0.2	ICPL 85063	TFL	16			
Black gram	02.11.09	19.01.2010	0.10	VBN3	TFL	14			
Horse gram	09.10.09	19.02.10	0.40	Paiyur 2	TFL	300			
Oilseeds									
Groundnut	11.12.09	30.01.10	0.10	TMV(Gn)13	TFL	50(dry pods)			
Fibers									
Spices & Plantation crops									
Turmeric	11.06.09	04.03.10	0.40	BSR 2		23			
Turmeric	11.06.09	04.03.10	0.40	BSR 1		13			
Floriculture									
Fruits									
Vegetables									
Others (specify)									
Fodder cowpea	02.12.09	-	-	-	-	-	-	-	-
Fodder grass				Co(CN)4		40,000 cuttings	20,000		

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- Construction of Hostel is completed during April 2010 only

Accommodation available (No. of beds) - 30

13.F. Database management

S. No	Database target	Database created
	Resource inventory of the District	<ol style="list-style-type: none"> 1. Nine fold classification of land 2. Number and size of operational holdings 3. Weather parameters of the district. (for a minimum period of ten years) 4. Details of soil profile 5. Detailed cropping pattern (for a minimum period of ten years) 6. Area, production and productivity of major crops 7. Details of livestock wealth in the district 8. Production and productivity of livestock produces 9. Area under irrigation from different sources 10. Seasonal availability of labour 11. Trend in wholesale price of major crop and livestock products (for a minimum period of ten years) 12. Details on input agencies 13. Details on infrastructural facilities available for production, post harvest and marketing 14. Details of institutional credit facilities

13.G. Details on Rain Water Harvesting structure and micro-irrigation system - Proposal submitted for council approval

Amount sanctioned (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	SBI, TNAU	Coimbatore	---	---	---	---	---
With KVK	State bank of India	Dharmapuri	0832	Associate Professor and Head	30117740134	---	----

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2010
	Kharif 2009	Rabi 2009-10	Kharif 2009	Rabi 2009-10	
Inputs	35000	17500	34899	17445	161
TA /DA / POL	5000	2500	4777	1535	1118
Extension Activities	5000	2500	5000	2500	
DEE Share	2500	1250	0	0	3750
Total	47500	23750	44676	21480	5094

14.C. Utilization of funds under FLD on Pulses (Rs. in Lakh)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2010
	Kharif 2009	Rabi 2009-10	Kharif 2009	Rabi 2009-10	
Inputs		17500		17495	
Extension activities		2500		2500	
TA/DA/POL etc.		2500		2302	
TOTAL		22500		22297	203

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2010
	Kharif 2009	Rabi 2009-10	Kharif 2009	Rabi 2009-10	
Inputs	70000		69443		557
Extension activities			0		
TA/DA/POL etc.	30000		29869		131
TOTAL	1,00,000		99312		688

14.E. Utilization of KVK funds during the year 2009-10 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	41,00,000		4722456
2	Traveling allowances	1,00,000		99908
3				
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2,25,000		224980
B	POL, repair of vehicles, tractor and equipments	1,75,000		174860
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	1,20,000		120000
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	75,000		74,950
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	1,65,000		1,46,899
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	70,000		68,666
G	Training of extension functionaries	10,000		9,995
H	Extension activities	25,000		24,758
I	FFS	25,000		25,000
J	Library	10,000		9,791
TOTAL (A)		51,00,000		57,02,263
B. Non-Recurring Contingencies				
1	Furniture and furnishing	7,00,000		7,00,000
2	Computer with accessories	75,000		75,000
3	Power tiller	1,50,000		149900
TOTAL (B)		925000		924900
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		60,25,000		66,27,163

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2007 to March 2008	1,00,000	4,170	46,241	57,929
April 2008 to March 2009	57,929	1,02,322	40,482	1,19,769
April 2009 to March 2010	1,19,769	34,585	29,525	1,24,829

PART XV - OTHERS

15. Please include information which has not been reflected above (write in detail).