

ANNUAL REPORT 2010-11

(FOR THE PERIOD APRIL 2010 TO MARCH 2011)

KRISHI VIGYAN KENDRA
(ERODE DISTRICT)

PART I - GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Web Address
	Office	FAX		
Krishi Vigyan Kendra 272, Perumal Nagar Puduvallampalayam Road Kalingiam Post Gobichettipalayam Taluk Erode District Tamilnadu	04285 241626	04285 241627	myradakvk@dataone.in myradakvk@gmail.com	www.myradakvk.org

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

Address	Telephone		E mail	Web Address
	Office	FAX		
MYRADA No.2 Service Road, Domlur Layout, Bangalore – 560 071	080 - 25353166, 25352028, 25354457	(90-80) 25350982	myrada@vsnl.com	www.myrada.org

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.P.ALAGESAN	04285 226563	09443897654	azhagujanani@yahoo.com

1.4. Year of sanction: 1991

1.5. Staff Position (as on 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	P.Alagesan	Programme Coordinator	M	Agri.Extension	Masters in Rural Sociology / Ph.D.,	12000-375-18300	14075.00	01.08.1995	Permanent	OBC
2	Subject Matter Specialist	S.Saravanakumar	Subject Matter Specialist	M	Agronomy	M.Sc., (Agronomy)	5500-175-9000	6550.00	01.09.2008	Permanent	OBC
3	Subject Matter Specialist	P.Pachiappan	Subject Matter Specialist	M	Horticulture	B.Sc., (Horticulture)	5500-175-9000	8125.00	02.05.1996	Permanent	OBC
4	Subject Matter Specialist	R.Ashalatha	Subject Matter Specialist	F	Entomology	M.Sc., (Entomology)	5500-175-9000	6900.00	01.05.2006	Permanent	OBC
5	Subject Matter Specialist	M.Siva	Subject Matter Specialist	F	Home Science	M.Sc., M.Phill., (Home Science)	5500-175-9000	6900.00	01.07.2004	Permanent	OBC
6	Subject Matter Specialist	M.Alamelu	Subject Matter Specialist	F	Animal Science	BVSc (Animal Science)	5500-175-9000	6550.00	01.04.2002	Permanent	OBC
7	Programme Assistant (Lab Tech.) T-4	D.John Prabakaran	Programme Assistant T-4	M	Agriculture Engineering	BE Agri. Engineering	5500-175-9000	5850.00	01.05.2006	Permanent	OBC
8	Programme Assistant (Computer)/ T-4	A.Tamilselvan	Programme Assistant (Computer)/ T-4	M	Computer Programmer	M.Com., PGDC.	5500-175-9000	7775.00	01.04.1996	Permanent	OBC
9	Programme Assistant/ Farm Manager	M.Thirumoorhi	Programme Assistant/ Farm Manager	M	Farm Manager	B.Sc . (Agri)	5500-175-9000	5850.00	11.09.2008	Permanent	OBC
10	Assistant	M.Kannan	Office Superintendent	M	Office Superintendent	M.Com.,B.Ed, M.Phill	5500-175-9000	8125.00	01.07.1998	Permanent	OBC
11	Jr. Stenographer	P.Rajeshkanna	Computer operator	M	Computer operator	M.Com.,PGDC.	5000-150-8000	6350.00	01.01.2005	Permanent	OBC
12	Driver	M.Maruthachalam	Farm supervisor	M	Farm supervisor	D.Agri	3200-85-4900	3370.00	01.08.2008	Permanent	OBC
13	Driver	A.Gopal	Driver	M	Driver	SSLC	3200-85-4900	4760.00	01.04.1992	Permanent	OBC
14	Supporting staff	S.M.Narayanasamy	Office Assistant	M	Office Assistance	VIII th standard	3050-75-3950-80-4590	4750.00	01.04.1992	Permanent	OBC
15	Supporting staff	S.Bella	Cook	M	Cook	VIII th standard	3050-75-3950-80-4590	4585.00	01.04.1992	Permanent	OBC

1.6. Total land with KVK (in ha) : 22 Ha.

S. No.	Item	Area (ha)
1	Under Buildings	3 ha
2.	Under Demonstration Units	1 ha
3.	Under Crops	18 ha
4.	Orchard/Agro-forestry	-
5.	Others	-
TOTAL		22 ha

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	1996-97	172	6,67,821.00	-	-	-
2.	Farmers Hostel	ICAR	-	-	-	2010	300	Work is in progress
3. a	Staff Quarters – CTO	ICAR	1993	87	1,99,081.00	-	-	-
b	Training Associates Quarters (6)	ICAR	1997-98	396	16,11,956.00	-	-	-
4.	Demonstration Units	-	-	-	-	-	-	-
5	Vehicle Shed	ICAR	2010	46.45	1,98,159.00	-	-	-
6	Fencing	-	-	-	-	-	-	-
7	Rain Water harvesting system	-	-	-	-	-	-	-
8	Threshing floor	-	-	-	-	-	-	-
9	Farm godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra – Jeep (Bolero)	2004	499900.00	213339	Running condition
Hero Honda Super splendor	2009	49964.00	22806	Running condition
Hero Honda Super splendor	2009	49964.00	14758	Running condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Yasica camera	1994	3,750.00	Not in use
Computer system	2003	1,05,779.00	Working condition
Xerox cum printer	2004	75,000.00	Working condition
Canon digital camera	2005	9,820.00	Working condition
Kodak digital camera	2005	7,830.00	Working condition
Soil Test Lab equipment	2005	7,09,803.00	Functioning
Power Weeder	2007	99,996.00	Running condition
Rotovator	2008	76,960.00	Running condition
Fax Machine	2009	15,000.00	Working condition
Tractor	2010	4,99,800.00	Working condition
EPABX system	2010	50,000.00	Working condition
Generator	2010	100,000.00	Working condition
Power Tiller	2010	1,50,000.00	Working condition
Maize Dehusker	2010	40,000.00	Working condition
Groundnut pod stripper	2010	20,000.00	Working condition
Sugarcane pit maker	2010	30,000.00	Working condition
Laser guided land leveler	2010	5,00,000.00	Working condition
Plant health diagnostic centre	2010	10,00,000.00	Working condition

1.8. Details SAC meeting conducted in 2010-11

Sl. No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1	10.07.2010	75	-	SRI Ragi demonstration	<ul style="list-style-type: none"> Two trails were conducted at Thattakarai & Tamaraikarai of Burgur hills. It is proposed to carry out SRI in month of July 2011 in Germalam area
2				Sugarcane bud chip technology (CO-99006)	<ul style="list-style-type: none"> It was planned to conduct 5 extension functionaries and farmers trainings in various blocks of Erode district. 10 demonstration are planned to take up in 2011-12
3				Introduction of Low cost drip irrigation system	<ul style="list-style-type: none"> Three extension functionaries trainings organized at arepalayam Training centre during 14.03.2011 to 23.03.2011 by covering three batches for 92 PACB officials Demonstration was taken in the rosemary field at Talakarai & Thattakarai of Burgur hills
4				Popularization of Samba wheat - COW(SW)-2	<ul style="list-style-type: none"> It was planned to take up demonstration in the month of October 2011
5				Introduction of new variety on groundnut	<ul style="list-style-type: none"> It was planned to take up demonstration with Groudnut(TMV-13) in the month of September 2011
6				Seed village and seed bank concept for major crops	<ul style="list-style-type: none"> The programme was initiated in Talavadi, Bargur and Germalam area Conservation and promotion of Traditional and other varieties for the following crops: <ul style="list-style-type: none"> Samai-300kgs, Karikattai ragi -400, Thinai-100kgs, Dryland paddy-100 Kgs. Greens-30kgs, Gpu-28-2 tonne has planned to take up from June 2011
7				Support for turmeric harvester promotion in the district	<ul style="list-style-type: none"> Innovative farmer from Anthiyur was identified, awarded by Director General, ICAR during the occasion National Farmers Innovator's meet on 06 & 7th of December 2010 at JSS KVK, Mysore

					<ul style="list-style-type: none"> • CMRC purchased the innovators model for the promotion of the innovator model through CBO's • Trials and demonstration have planned to promote turmeric harvester in Erode
8				Popularization of multi crop / multi tier system	<ul style="list-style-type: none"> • It was planned to promote in Small Orchards in 1000 ac by covering of Mango, amla,Citrus,silver Oak,Cassia Siamea and Pepper in Tribal family fields.The areas are in Talavadi, Germalam,Arepalayam , Kadambur and burgur areas in order to effective utilization of land in tribal development programme
9				Dissemination of Banana stem trap technology to wider areas	<ul style="list-style-type: none"> • Two training programs at kallipatti area during 12.08.2010 & 14.09.2010 were organized for farmers & Extension functionaries.57 farmers benefitted.
10				Dissemination of Papaya mealy bug management technologies	<ul style="list-style-type: none"> • Demonstration was conducted under Front line demonstration • Two training programs were organized for farmers & Extension functionaries at Anthiyur and Kallipatti .16.09.2010 and 24.09.2010 .Totally,s 42 farmers benefitted
11				Continuous effort in creating awareness on soil and water testing	<ul style="list-style-type: none"> • 12 Training programs were conducted to farmers, Extension functionaries during the reporting period in Talavadi, Germalam,Arepalayam Anthiyur, Kallipatti, and Burgur hills. Totally 232 farmers benefitted
12				Soil health management in cotton need to be addressed continuously	<ul style="list-style-type: none"> • Trainings were regularly conducted to promote and importance of soil health
13				Addressing and resolving labour shortage problem in the district and popularization of farm machineries	<ul style="list-style-type: none"> • Kendra conducted training cum demonstration to the extension functionaries and farmers on focusing farm mechanization in major crops in Kendra working areas
14				Popularization of slatted floor	<ul style="list-style-type: none"> • Trainings & demonstrations

				goat / sheep rearing in hilly regions of the district	are planned on slatted floor goat rearing in hilly regions among tribal community.
15				Promotion of CO-(FS)29 and Velimasal (Hedge leucerne) fodder variety	<ul style="list-style-type: none"> • Demonstration was conducted under Front line demonstration with 20 farmers • 6 trainings were imparted to the farmers (195) of Erode district on cultivation & usage of mixed fodder for maintaining livestock health and production.
16				Promotion of cost effective incubators	<ul style="list-style-type: none"> • Demonstration was conducted under Frontline demonstration program with 240 eggs capacity. 60-70 % hatching percentage was observed. • 2 trainings were organized for farmers & rural youth at Gobi during 03.03.2011 & 10.03.2011.(65 members were participated) • It is planned to Establish four small scale incubators in Tribal villages with support of NABARD, Chennai.
17				Steps to be undertaken regarding provision of semen stock of Kangeyam and Bargur breed to farmers	<ul style="list-style-type: none"> • Awareness training program organized for farmers & rural youth on conservation of indigenous breeds. • Linkages established with farmers of Bargur hills and Madhavaram milk colony, Chennai & Hosur cattle farm for semen stock to conserve the Bargur breeds. Totally 8 bulls have been sent to the above places.
18				Dissemination of technologies for increasing integrated farming system	<ul style="list-style-type: none"> • 12 Trainings were conducted for farmers & PRI members in Kendra working areas. Totally 320 farmers and PRI members were benefitted
19				Popularization of eco-sanitation concept	<ul style="list-style-type: none"> • The concept is being demonstrated among farming community .during the reporting period 17 eco-san have been demonstrated at farmers field. • Steps have been taken for utilization of human urine in nutrition garden & agriculture purpose
20				Value addition programmes in	<ul style="list-style-type: none"> • Training & demonstration

				Banana to be conducted and economic scale of banana fibre processing to be worked out	<p>conducted for farmers & entrepreneurs on Bannana fibre extraction & marketing (35 farmers benefited)</p> <ul style="list-style-type: none"> • One Entrepreneur have established one banana fibre unit in Gobi area
21				Value addition training in finger millet	<ul style="list-style-type: none"> • Four training programmes have been conducted at Talavadi, Burgur areas. Seventy women farmers benefitted • Two finger millet processing units have been established in Talavadi & Bargur • Two more units have planned with support of NABARD, Chennai among tribal community at Arepalayam and Kadambur hills
22				Organize district level farmers day with state department	<ul style="list-style-type: none"> • One programme organized 22-24.02.2011 in order to obtain knowledge on latest technologies.50 farmers were benefitted by this program.
23				Documentation of success stories and failures	<ul style="list-style-type: none"> • Success stories have been documented on Beans cultivation, Turmeric harvester(A farmer innovation)Women paravet & ecological sanitation in agriculture
24				Documentation of all speeches and activities related to E-linkages	<ul style="list-style-type: none"> • The SMS are attended 11 Hub program and documented the information. The technologies have been disseminated to the farmers
25				Focus on carbon trading / credit, carbon sequestration and explore the field of study	<ul style="list-style-type: none"> • Five trainings was conducted for farmers , school children on Climate change , causes & mitigation strategies in Kendra working areass • Tree plantation is planned in the hilly area to manage the effect of climate change

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	Command Area : Rice - Sesame Sugarcane - Ratoon Turmeric - Rice Banana - Ratoon Groundnut - Rice – Maize
2	Well Irrigated Area: Turmeric - Maize / Chillies / Tomato Rice – Cotton
3	Rainfed Area: Maize/Sorghum - Pulses Redgram/castor - Fallow

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

S. No	Agro-climatic Zone	Characteristics
1	Southern plateau and hills	The district comes under the agro-climatic zones of southern plateaus and hills. A major part of the district is covered with red soils. Alluvial soils are found in small patches along Noyyal and Bhavani rivers. The district forms part of Cauvery river basin and is blessed with a network of rivers viz., Bhavani, Noyyal, Amaravathi and their tributaries. The river Cauvery flows along the eastern border of the district. The normal rainfall of the district is 717 mm.

S. No	Agro ecological situation	Characteristics
1	Geographical Locations: North Latitude 10-36° to 11-58° East Longitude 76-49° to 77-58°	Erode district is having moderately undulating topography with general slope from northeast to southwest. The district has the benefit of semi arid dry sub humid climate which is favourable for cultivation of paddy, sugarcane, turmeric, ragi, maize, tapioca, etc. There are much irrigation projects namely lower Bhavani projects across Upper River. Because of these irrigation projects, there is a well-built surface water irrigation network covering the major part of the district.
2	Temperature: Maximum – 37.90°C Minimum – 20.00°C	

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Red soil (Alfisol, Entisol, Ultisol)	<ul style="list-style-type: none"> ▪ Soil rich in iron and aluminium oxides ▪ Poor in water holding capacity ▪ Soil pH varies from 5.5 – 8.5 ▪ EC ranges from 0.050 to 0.250dSm⁻¹ ▪ Fertility rating – low nitrogen, medium phosphorus and high in potassium 	3, 42,800
2	Black soil (vertisol, Entisol)	<ul style="list-style-type: none"> ▪ Black in colour ▪ Good in water holding capacity ▪ Soil pH varies from 7.5 – 8.7 ▪ EC ranges from 0.150 to 0.450dSm⁻¹ ▪ Fertility rating – low nitrogen, low phosphorus and medium in potassium 	1, 79,562
3	Alluvial soil	<ul style="list-style-type: none"> ▪ Medium in water holding capacity ▪ Soil pH varies from 6.5 – 8.0 ▪ EC ranges from 0.120 to 0.370dSm⁻¹ ▪ Fertility rating – low nitrogen, medium phosphorus and medium in potassium 	65,295
4	Forest soil	<ul style="list-style-type: none"> ▪ Rich in sesqui oxides 	2, 28,543

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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1	Paddy	38357	160678.615	4335
2	Ragi	5909	10482.566	1774
3	Maize	20473	120729.281	5897
4	Green gram	2569	1379.553	537
5	Black gram	1267	936.313	739
6	Horse gram	6825	3043.95	446
7	Sugarcane	41906	5783028	138
8	Cotton	1982	1327.94	670
9	Tapioca	8344	436449.608	52307
10	Groundnut	31416	43071.336	1371
11	Sesame	12125	9930.375	819
12	Sunflower	7684	20101.344	2616
13	Coconut (No. Nuts)	19447	243048606	12498
14	Tobacco	3537	5609.682	1586
15	Turmeric	7882	58839.13	7465
16	Banana	10480	717010.16	68417
17	Onion	3402	25844.994	7597

Source : Directorate of Economics and Statistics, Chennai

2.5. Weather Data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
April 2010	31.00	37.60	15.71	64.30
May 2010	64.10	39.17	16.24	65.60
June 2010	39.00	34.61	24.22	66.61
July 2010	69.75	32.44	23.18	68.64
August 2010	78.56	32.36	23.15	68.27
September 2010	123.50	32.33	22.90	73.40
October 2010	234.98	32.18	22.72	78.48
November 2010	327.10	29.27	21.40	88.50
December 2010	48.80	29.05	19.13	83.05
January 2011	00.80	31.00	17.04	62.05
February 2011	20.00	32.36	18.60	49.27
March 2011	2.50	35.04	20.44	49.00
Total	1040.09	33.12	20.39	68.10

* Source : TNAU Weather station

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

Category	Population	Production(000 tonnes)	Productivity
Cattle	398572	212.402	2.32 lit/day
<i>Crossbred</i>	250385	175.057	3.026 lit/day
<i>Indigenous</i>	148187	37.345	1.091 lit/day
Buffalo	230004	102.302	2.11 lit/day
Sheep	560015	346 tons	-
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	-	-	-
Goats	562270	685.81 tons	-
Pigs	7288		
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	-	-	-
Rabbits	1801	-	-
Poultry	5180399		
Hens	-	-	-
<i>Desi</i>	-	194.51 lakhs eggs	-
<i>Improved</i>	-	9376.49 lakhs eggs	-
Ducks	68193	-	-
Turkey and others	-	-	-
Category	Area	Production (tonnes)	Productivity
Fish	-	-	-
<i>Marine</i>	-	-	-
<i>Inland</i>	-	520.16	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

Source: Department of Animal husbandry and Veterinary Services, Chennai

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

2.8 Details of Operational area / Villages

Sl. No.	Taluk	Blocks/groups of villages	How long the village is covered under operational area of the KVK (specify the years)	Major crops/enterprises being practiced	Major problems identified	Identified thrust areas
1.	Gobi	Gobi, T.N Palayam Nambiyur	2003	Paddy	<ul style="list-style-type: none"> ▪ Late transplanting due to labour shortage ▪ Excess application of nitrogenous fertilizer ▪ Lack of awareness on micronutrient application ▪ Insect Pest (stem borer, Leaf folder) and Blast, Bacterial leaf blight disease in widespread areas 	<ul style="list-style-type: none"> ▪ Mechanization in paddy cultivation ▪ Demonstration on leaf colour chart based nitrogen application ▪ Training on importance of micro nutrient application in rice ▪ Training and demonstration on Integrated pest management
			2007	Maize	<ul style="list-style-type: none"> ▪ Lack of awareness on crop boosters ▪ Lack of knowledge on use of Eco-san compost 	<ul style="list-style-type: none"> ▪ Training and demonstration on maize maxim under FLD ▪ Demonstration on effective utilization of Eco-san compost
			2008	Black gram	<ul style="list-style-type: none"> ▪ Non-availability and unawareness on newly released varieties ▪ Lack of awareness on crop boosters 	<ul style="list-style-type: none"> ▪ Introduction of VBN-4, 5 under FLD ▪ Introduction and demonstration on pulse wonder
			2009	Groundnut	<ul style="list-style-type: none"> ▪ Non-availability of newly released variety ▪ Unawareness on crop boosters ▪ Terminal water stress ▪ Labour scarcity for groundnut shelling ▪ Labour scarcity and post harvest management 	<ul style="list-style-type: none"> ▪ FLD on introduction of groundnut variety TMV-13 ▪ Popularization of groundnut rich under FLD ▪ Training and demonstration on introduction of tolerant variety and water management ▪ Training on groundnut decorticator ▪ Training on groundnut pod stripper

			2010	Sesame	<ul style="list-style-type: none"> ▪ Improper nutrient management practices ▪ Non availability of quality seeds 	<ul style="list-style-type: none"> ▪ FLD on scientific nutrient management for sesame ▪ Training on seed production techniques
			2009	Sugarcane	<ul style="list-style-type: none"> ▪ Lack of awareness on farm mechanization 	<ul style="list-style-type: none"> ▪ Training and demonstration on mechanization in sugarcane cultivation
			2007	Banana	<ul style="list-style-type: none"> ▪ Increased damage by pseudo stem weevils and Rhizome weevils leading to yield loss 	<ul style="list-style-type: none"> ▪ Training on eco-friendly management of weevils ▪ Introduction of new variety
					<ul style="list-style-type: none"> ▪ Lack of knowledge on recycling of banana pseudo stem ▪ Lack of awareness on banana bunch cover 	<ul style="list-style-type: none"> ▪ Training and demonstration on Extraction of banana fibre and value addition ▪ Training and demonstration on Banana bunch cover
			2010	Papaya	<ul style="list-style-type: none"> ▪ Mealy bug (<i>Paracoccus marginatus</i>) menace causing heavy loss 	<ul style="list-style-type: none"> ▪ Training and demonstration on mealy bug management
			2008	All Agricultural and horticultural crops	<ul style="list-style-type: none"> ▪ Enormous damage by the invasive insect pest -Papaya mealy bug ▪ Lack of marketing outlets for value added agriculture produces 	<ul style="list-style-type: none"> ▪ Extension functionaries training on bio-intensive management of papaya mealy bug ▪ Establishing marketing outlets for value added agriculture produces
			2008	Dairy	<ul style="list-style-type: none"> ▪ Mastitis ▪ Infertility ▪ Reduction in milk yield due to improper nutrient management 	<ul style="list-style-type: none"> ▪ Training on management of Mastitis by using herbals. ▪ Training on infertility management ▪ Training on advantages of mineral mixture in livestock feeding. ▪ Training on importance of green fodder in milch animal
			2002	Sheep & Goat	<ul style="list-style-type: none"> ▪ Poor weight gain in local goat ▪ Endoparasitic infestation ▪ Lack of knowledge on seasonal diseases& its prevention in Ovine 	<ul style="list-style-type: none"> ▪ Training on advantages of upgradation of local goat with Tellicherry / Boer goat ▪ Training on importance of deworming ▪ Training/camp on management of seasonal diseases

			2004	Backyard Poultry	<ul style="list-style-type: none"> ▪ Increased mortality due to Ranikhet disease ▪ Lower adoption of Incubator for hatching poultry eggs ▪ Lower egg production 	<ul style="list-style-type: none"> ▪ Training on management of Ranikhet diseases ▪ FLD on introduction of incubator for hatching poultry eggs ▪ Popularization of dual purpose chicken
2.	Sathy	Sathy Thalavadi Bhavanisagar	2007	Paddy	<ul style="list-style-type: none"> ▪ Lack of awareness on micronutrient application 	<ul style="list-style-type: none"> ▪ Training on importance of micro nutrient application
			2010	Maize	<ul style="list-style-type: none"> ▪ Unawareness on crop boosters 	<ul style="list-style-type: none"> ▪ Introduction of maize maxim under FLD programme
			2006	Ragi	<ul style="list-style-type: none"> ▪ Non availability of improved varieties 	<ul style="list-style-type: none"> ▪ Training on quality seed production in ragi ▪ Popularization of CO(Ra)-14
			1996	Minor millets	<ul style="list-style-type: none"> ▪ Lack of awareness on importance of nutri-cereals 	<ul style="list-style-type: none"> ▪ Trainings and seminar on importance of nutri-cereals
			2008	Sugarcane	<ul style="list-style-type: none"> ▪ Improper nutrient management practices ▪ Lack of awareness on farm mechanization 	<ul style="list-style-type: none"> ▪ Training on nutrient management and their application methods for sugarcane ▪ Training and demonstration on farm mechanization
			2009	Fruits &Vegetables	<ul style="list-style-type: none"> ▪ Lack of knowledge on post harvest technology in fruits and Vegetable crops 	<ul style="list-style-type: none"> ▪ Seminar on post harvest technology in fruits and Vegetable crops
			2010	Papaya	<ul style="list-style-type: none"> ▪ Mealy bug (<i>Paracoccus marginatus</i>) menace causing heavy loss 	<ul style="list-style-type: none"> ▪ FLD on Papaya mealy bug management
			2010	Decentralized production of Bio-control agents	<ul style="list-style-type: none"> ▪ Lack of Agri- Entrepreneurship 	<ul style="list-style-type: none"> ▪ Vocational training and demonstration on bio pesticide mass production techniques.
			2006	Pest management in stored grains	<ul style="list-style-type: none"> ▪ Stored insect pest damage leading to grain loss 	<ul style="list-style-type: none"> ▪ Demonstration and training on stored insect pest management

			1996	Dairy	<ul style="list-style-type: none"> ▪ Improper management of Cattle Shed ▪ Reduction in milk yield ▪ Poor disease management 	<ul style="list-style-type: none"> ▪ Training on management and maintenance of Cattle shed ▪ Importance of Green fodder in milch animal ▪ Training/camp on Seasonal disease & its prevention in Bovines
			1996	Sheep & Goat	<ul style="list-style-type: none"> ▪ Poor disease management ▪ Endo parasitic infestation due to open grazing 	<ul style="list-style-type: none"> ▪ Training /camp on Seasonal diseases& its prevention in Ovines ▪ Training on importance of deworming
			2006	Animal health promotion	<ul style="list-style-type: none"> ▪ Lack of Knowledge on recent technology in Animal health promotion 	<ul style="list-style-type: none"> ▪ Refresher training on recent technology in animal health promotion
3	Bhavani	Bhavani Anthiyur Bargur Ammapet	2010	Groundnut	<ul style="list-style-type: none"> ▪ Non availability of newly released variety ▪ Lack of awareness on crop boosters 	<ul style="list-style-type: none"> ▪ FLD on introduction of groundnut variety TMV-13 ▪ Popularization of groundnut rich under FLD
			2007	Turmeric	<ul style="list-style-type: none"> ▪ Lack of awareness on effective post harvest management 	<ul style="list-style-type: none"> ▪ Training and demonstration of turmeric steam boiler
			2006	Cotton	<ul style="list-style-type: none"> ▪ Low yield due to non adoption of ICM practices ▪ Lack of awareness on cotton farm mechanization as the district faces acute labour shortage ▪ Leaf reddening in cotton 	<ul style="list-style-type: none"> ▪ FLD and extension personnel training on Integrated crop management in ELS cotton (Var .Surabi) ▪ Training and demonstration on hi-start mist blower ▪ OFT on leaf reddening management in Surabi cotton
	Bhavani	Bargur Anthiyur Ammapet	2010	Tapioca	<ul style="list-style-type: none"> ▪ Tapioca/Cassava mosaic disease caused by white-fly vectors 	<ul style="list-style-type: none"> ▪ OFT on assessment of mosaic resistant varieties - (4 – 2 and CMR-1)
			2006	Betel vine	<ul style="list-style-type: none"> ▪ Wilt disease in Betel vine leading to heavy yield loss 	<ul style="list-style-type: none"> ▪ FLD on Phytophthora wilt management

			2004	Millets	<ul style="list-style-type: none"> ▪ Lack of Knowledge on importance of minor millets 	<ul style="list-style-type: none"> ▪ Seminar cum exhibition on minor millets ▪ Vocational training on value addition in major and minor millets
			2004	Rosemary	<ul style="list-style-type: none"> ▪ Lack of knowledge on scientific post harvest management ▪ Lack of knowledge on value addition in rosemary 	<ul style="list-style-type: none"> ▪ Trainings on scientific post harvest management and workers hygiene ▪ Vocational training on value addition in rosemary
			2008	Sesame	<ul style="list-style-type: none"> ▪ Improper nutrient management practices ▪ Non availability of quality seeds 	<ul style="list-style-type: none"> ▪ FLD on scientific nutrient management for sesame ▪ Training on seed production techniques
			2011	Cotton	<ul style="list-style-type: none"> ▪ Non awareness on cotton booster 	<ul style="list-style-type: none"> ▪ Training and demonstration on cotton plus for improving yield
			2007	Ragi	<ul style="list-style-type: none"> ▪ Non availability of improved varieties 	<ul style="list-style-type: none"> ▪ Popularization of CO(Ra)-14 in Bargur area ▪ Training on quality seed production
			2000	Dairy, Sheep & Goat	<ul style="list-style-type: none"> ▪ Lack of knowledge on New fodder variety ▪ Poor disease management 	<ul style="list-style-type: none"> ▪ Fodder demonstration ▪ Training & seminar on Livestock diseases & its prevention ▪ Conducting Animal health camp
			2006	Poultry	<ul style="list-style-type: none"> ▪ Ranikhet diseases 	<ul style="list-style-type: none"> ▪ Management of Ranikhet disease
4.	Erode	Modakurichi, Chennimalai	2008	Paddy	<ul style="list-style-type: none"> ▪ Late transplanting due to labour shortage ▪ Excess application of nitrogenous fertilizer ▪ Lack of awareness on micronutrient application ▪ Resource conservation technologies ▪ Lack of awareness of newly released variety 	<ul style="list-style-type: none"> ▪ Training and demonstration on paddy transplanter ▪ Training and demonstration on leaf colour chart based nitrogen management ▪ Training on importance of micronutrient application in rice ▪ Training and demonstration on System Rice Intensification ▪ Training and demonstration on CO-48

2.9 Priority thrust areas

THRUST AREAS	
1	Integrated Farm Development
2	Soil and water conservation
3	Group / Cooperative farming for collective marketing
4	Animal health promotion through Para veterinary workers
5	Development and documentation of IEC materials
6	Networking with various farmers organization in the district
7	Farm mechanization in Paddy , cotton & sugarcane
8	Production of quality seed and planting materials
9	Introduction & popularization of newly released varieties & technologies from SAU's & ICAR institutes
10	Value addition in Banana and Jute fibre
11	Crop diversification
12	Focus on Climate Change and farm development

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
				Agronomy - 3	Agronomy - 3	Agronomy - 32	Agronomy - 32
Horticulture - 3	Horticulture - 3	Horticulture - 12	Horticulture - 12	Horticulture - 1	Horticulture - 1	Horticulture - 25	Horticulture - 25
Entomology - 1	Entomology - 0	Entomology - 2	Entomology - 0	Entomology - 2	Entomology - 2	Entomology - 25	Entomology - 25
Animal Science - 2	Animal Science - 2	Animal Science - 10	Animal Science - 10	Animal Science - 5	Animal Science - 5	Animal Science - 100	Animal Science - 100
				Home Science - 3	Home Science - 1	Home Science - 75	Home Science - 75
Soil Science - 1	Soil Science - 0	Soil Science - 3	Soil Science - 0				
Agri Engineering - 1	Agri Engineering - 1	Agri Engineering - 2	Agri Engineering - 2	Agri Engineering - 1	Agri Engineering - 1	Agri Engineering - 10	Agri Engineering - 10

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
-	Agronomy - 27	-	Agronomy - 605	-	Field Day -9	-	Field Day - 206
-	Horticulture - 34	-	Horticulture - 1248	-	Diagnostic visit - 425	-	Diagnostic visit - 528
-	Entomology - 9	-	Entomology - 276	-	News Clips - 11	-	-
-	Animal Science - 37	-	Animal Science - 894	-	Seminar - 3	-	Seminar - 468
-	Home Science - 29	-	Home Science - 428	-	Animal Health camp - 4	-	1321 - Animals
-	Soil Science - 5	-	Soil Science - 164	-	Exposure - 5	-	Exposure - 120
-	Agri Engineering - 13	-	Agri Engineering - 277	-	Film show - 13	-	Film show - 790
					Exhibition - 13		Exhibition - 8569

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
-	Black Gram - 8.0	-	Tomato - 75000
-	Paddy (ASD-16) - 30	-	Brinjal - 100000
-	Ragi (GPU-28) - 30	-	Chillies - 125000
-	French beans (Arkka Komal) - 50	-	Rosemary - 1150000
-	Turmeric (BSR-2) - 30	-	Coconut - 250
		-	Cumbu napier - 52750
		-	Melia dubia - 9000

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
	Goat (Tellicherry) – 25		Bio Fertilizers (Vermicompost) - 10000
			Bio-fungicide (<i>Pseudomonas flourescens</i> & <i>Trichoderma viride</i>) - 1347
			Banana micro nutrient mixture – 300

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										Supply of bio products	
				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.)	No.	Kg	
1	Artificial insemination & its technique	Livestock	Lack of Knowledge on recent technologies in livestock breeding	-	-	-	1	-	-	-	-	-	-	-	-
2	Infertility management	Dairy	Lower pregnancy rate	Synchronization of estrus in dairy cows	-	2	-	-	-	Experience sharing day	-	-	-	-	-
3	Disease management	poultry	Ranikhet disease	Control of Ranikhet disease in Desi chicks	-	2	-	-	-	Experience sharing day	-	-	-	-	-
4	Nutrient management	Dairy	Lack of awareness on mixed fodder system	-	Popularization of mixed fodder system	6	-	-	-	Field day	-	-	-	-	-
5	Popularization of new breeds	Poultry	Lower egg production	-	Popularization of Kaveri chicken	2	-	-	-	Field day	-	-	-	-	-
6	Popularization of Desi bird	Poultry	Lower egg production	-	Popularization of Desi bird(Aseel)	2	-	-	-	Field day	-	-	-	-	-
7	Nutrient management	Dairy	Lack of awareness on location specific mineral mixture	-	Popularization of Location specific mineral mixture in livestock feeding	5	-	-	-	Field day	-	-	-	-	-
8	Popularization of Incubator	Poultry	Non adoption of hatching equipment	-	Popularization of incubator	2	-	-	-	Field day	-	-	-	-	-
9	Breeding local goat with Tellicheery breed	Goat	Poor weight gain	-	-	5	1	-	-	-	-	-	-	-	-
10	Disease management	Livestock & Poultry	Poor disease management	-	-	5	-	-	-	Camp , seminar IEC material	-	-	-	-	-
11	Herbal treatment	Livestock & poultry	Lack of Knowledge on Ehtnoveterinary practices	-	-	2	2	-	-	Seminar,,IEC material	-	-	-	-	-

12	Introduction of new variety	Banana	Continuous cultivation same variety	Assessing the performance of new variety – (Udayam)	-	2		-	-	-	-	-	-	-
13.	Introduction of new variety	French beans	Continuous cultivation same variety	Assessing the performance of new variety- (Arka anoop)	Popularization of Arka Suvitha	4	4	2	Field day	-	-	-	-	-
14	Introduction of intercropping system y	Rosemary	Lack of awareness on intercropping system	Assessing the performance of intercropping system	-	2	-	-	Experience sharing day	-	-	-	-	-
15	Integrated Crop Management	Black Gram	Poor nutrient management practices	-	Technology on harnessing pulses productivity	3	-	-	Field day	-	-	-	-	-
16	Nutrient Management	Maize	Lack of awareness on crop booster	-	Foliar application of maize maxim	4	-	-	Field day	-	-	-	-	-
17	Nutrient Management	Sugarcane	Lack of awareness on crop booster	-	Foliar application of sugarcane booster	5	-	-	Field day	-	-	-	-	-
18	Popularization of motorized chaff cutter	Mushroom cultivation	Time and labour consumption in cutting paddy straw	-	Popularization of chaff cutter	3	1	-	Field day	-	-	-	-	-
19	Popularization of manual grain cleaning machine	Ragi	Drudgery in cleaning process and lack of knowledge on scientific grain cleaning techniques	-	Introduction of grain cleaning machine	1	-	-	-	-	-	-	-	-
20	Introduction of Vegetable preservator (CRIDA model)	Vegetable and fruits	Low keeping quality of perishable products	-	Introduction of Vegetable preservator (CRIDA model)	2	-	-	-	-	-	-	-	-

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No.of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Technology on harnessing pulses productivity	IIPR - Kanpur	Black Gram	-	1	3	-
2	Foliar application of maize maxim	TNAU	Maize	-	1	4	-
3	Foliar application of sugarcane booster	TNAU	Sugarcane	-	1	5	-
4	Popularization of mixed fodder	TNAU,Coimbatore	Fodder	-	1	6	-
5	Popularization of location specific mineral mixture in livestock feeding	TANUVAS,Chennai	Dairy	-	1	5	-
6	Popularization of incubator	TAANUVAS,Chennai	Poultry	-	1	2	-
7	Popularization of DesiChich(Aseel)	TANUVAS,Chennai	Poultry	-	1	2	-
8	Popularization of kaveri chicken	IARI,Izatnagar	Poultry	-	1	2	-
9	Synchronization of estrus in Diry cows	TANUVAS,Chennai	Dairy	1	-	3	-
10	Control of Ranikhet disease in Desi chicks	TANUVAS,Chennai	Poultry	1	-	4	-
11.	Popularization of Arka Suvitha	IIHR, Bangalore	French beans	-	1	2	-
12.	Assessing the performance of new variety – Udayam	NRCB, Tricy	Banana	1	-	2	-
13.	Assessing the performance of new variety – Arka anoop	IIHR, Bangalore	French beans	1	-	2	-
14.	Assessing the performance of intercrops	-	Rosemary	1	-	2	-
15.	Popularization of motorized chaff cutter	TNAU,coimbatore	Mushroom cultivatioOn		1	2	-
16	Popularization on of manual grain cleaning machine	CIAE,Bhopal	Ragi		1	2	
17	Introduction of Vegetable preservator (CRIDA model)	CRIDA, Hyderabad	Vegetable and fruits		1	2	

3.B2 contd..

No. of farmers covered

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
-	-	-	-	10	-	-	-	45	12	6	5	-	-	-	-
-	-	-	-	12	-	-	-	86	43	-	-	-	-	-	-
-	-	-	-	10	-	-	-	98	38	12	10	-	-	-	-
--	-	-	-	20	-	-	-	68	67	8	4	-	-	-	-
-	-	-	-	20	-	-	-	45	8	-	-	-	-	-	-
-	-	-	-	10	10	-	-	47	26	-	-	-	-	-	-
-	-	-	-	20	-	-	-	68	24	-	4	-	-	-	-
-	-	-	-	20	-	-	-	65	14	-	6	-	-	-	-
5	-	-	-	-	-	-	-	34	23	6	5	-	-	-	-
5	-	-	-	-	-	-	-	45	36	4	6	-	-	-	-
-	-	-	-	10	-	-	-	35	5	-	-	-	-	-	-
4	-	-	-	-	-	-	-	29	12	5	-	-	-	-	-
4	-	-	-	-	-	-	-	32	14	-	5	-	-	-	-
4	-	-	-	-	-	-	-	27	13	-	6	-	-	-	-
-	-	-	-	-	20	-	-	-	40	-	-	-	-	-	-
-	-	-	-	-	25	-	-	-	44	-	4	-	-	-	-
-	-	-	-	-	30	-	-	-	52	-	8	-	-	-	-

PART IV - On Farm Trial

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

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

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

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

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

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

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Integrated Nutrient Management	-	-	-	-	-
	-	-	-	-	-
Varietal Evaluation	Banana	Assessing performance of new variety (Udayam)	4	4	0.2
	French beans	Performance assessment of French verity _ (Arka Anoop)	4	4	1
Integrated Pest Management	-	-	-	-	-
	-	-	-	-	-
Integrated Crop Management	Rosemary	Performance assessment of intercrops in rosemary	4	4	0.2
	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Weed Management	-	-	-	-	-
	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-
	-	-	-	-	-
Farm Machineries	Paddy	Performance and suitability of different weeder	2	2	0.4
	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
	-	-	-	-	-
Value addition	-	-	-	-	-
	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
	-	-	-	-	-
Total	-	-	14	14	1.8

4.B.2. Technologies Refined under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Integrated Nutrient Management	-	-	-	-	-
	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-
	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-
	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-
	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Weed Management	-	-	-	-	-
	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-
	-	-	-	-	-
Farm Machineries	-	-	-	-	-
	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
	-	-	-	-	-
Value addition	-	-	-	-	-
	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
	-	-	-	-	-
Total	-	-	-	-	-

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds	-	-	-	-
Nutrition management	-	-	-	-
Disease management	Poultry	Control of Ranikhet diseases in Desi chiks	5	5
Value addition	-	-	-	-
Production and management	Dairy	Synchronization of estrus in dairy cows	5	5
Feed and fodder	-	-	-	-
Small scale income generating enterprises	-	-	-	-
Total			10	10

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

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

4.C1. Results of Technologies Assessed

OFT – 1 (Horticulture)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Banana	Irrigated	Yield loss by using of existing variety	Introduction of new variety – Udayam	4	1. Karpuravallai, 2. Udayam	Bunch weight, Yield Market preference, B.C. Ratio	-	-	-	-	-

Contd..

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

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

1 Title of Technology Assessed

Assessing the performance of new variety in Banana – Udhayam

2 Problem Definition

Erode district is a major horticulture belt, banana crops is one of the main crop in the district and cultivated in 5300 ha. Farmers are being cultivated varieties such as Red banana, Kadali, G-9, Karpuravalli in large scale.

These varieties are susceptible to leaf spot and wilt diseases and resulted in poor yield, which fetches poor market value. The farmers are not aware of new variety which tolerance to biotic, wilt and nematodes and suitable for value added product (Juice and wine making)

3 Details of technologies selected for assessment

Technology option 1 Karpooravallai

Technology option 2 Udhayam

4 Source of technology

NRCB, Trichy and TNAU, Coimbatore

5 Production system and thematic area

Commercial based Production system and introduction of improved new variety

6. Performance of the Technology with performance indicators

The demonstration has been delayed due to non-availability of suckers from NRCB, Trichy. The crop is in second month and expected to collect the data in the month of December 2011.

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

-

OFT – 2 (Horticulture)

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
French beans	Irrigated	Yield deterioration due to continuous usages of same variety	Introduction of new variety – Arka Anoop	4	Arka komal , Arka anoop	100 pod weight , Pod colour Yield Consumer preference, B:C Ratio	100 pod weight T1: 550Gram T2: 600Gram Pod colour T1:Dark green colour T2: Light green colour Yield T1: 16T/Hac T2: 21T/hac B:C Ratio T1: 1.9 T2: 3.5	<ul style="list-style-type: none"> Overall performance of Arka anoop variety of French beans in the hilly regions of Erode district is observed good. Pod length and colour is very attractive to the consumer. Yield of the variety was observed 21T/hac. Market price of pod is comparatively high, while compare to Arka Komal variety. 	Farmers prefer the Arka anoop due to its pod length, colour and its yield potentiality	Nil	Nil

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) Arka Komal	IIHR, Bangalore	16T/Hac	16000Kgs /Hac	85417.00	1.9
Technology option 2 Arka Anoop	IIHR, Bangalore	21T/Hac	21000Kgs /Hac	182639.00	3.5

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

1. Title of Technology Assessed

Assessing the performance of new variety in French beans – Arka Anoop

2. Problem Definition

French bean is predominant crop in the hilly regions of Erode district. Since it is short duration and remunerative crop and cultivating this crop by Small and Marginal farmers for throughout the year. It is cultivated in 1000 hac. For the past 15 years, the farmers are cultivating the same variety (Arka komal) and resulted in poor yield. Consumer preference was low for this variety due to its high fibre content and stringy character. The farmers are not aware of the new released varieties named Arka anoop and its advantages such as early harvest in 45 days, pods are flat, smooth, long (17-18cm) and crisp with less parchment. It has the yield potential of 20t/ha.

3. Details of technologies selected for assessment

Technology option 1 Arka Komal

Technology option 2 Arka Anoop

4. Source of technology

IIHR, Bangalore

5. Production system and thematic area

Commercial based Production system and performance assessment of new variety

6. Performance of the Technology with performance indicators

The performance of this variety over all accepted by farmers due to pod length and color, yield potentiality and resistant to rust and bacterial blight

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques

Name of the parameter	Arka komal	Arka anoop
100 pod weight	7	9
Pod colour	6	9
Yield	7	10
B:C Ratio	7	10

(Matrix prepared based on 10 scoring points)

Farmer are prefer this variety due to suited to hilly regions of Erode District climatic condition. The other reasons are pods are flat, smooth and long (17-18cm) and crisp with less parchment and yield potentiality 20t/hac.

8. Final recommendation for micro level situation

Overall performance of this variety is good in terms of pod length. colour and yield potentiality. It can be disseminated through Front Line Demonstration programme to benefit more farmers of hilly regions of Erode District. .

9. Constraints identified and feedback for research

It is new variety and suitable to Erode district (Hilly region) agro climatic condition. The research institution can support KVK for seed production, and it will help to meet the demand of farmers need.

10. Process of farmers participation and their reaction

Farmers were actively involved and participated in the demonstration in order to get more yields by using of new technology. The farmers expressed that, they learnt integrated crop management practices in addition to the new variety.

OFT – 3 (Horticulture)

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Rosemary crop	Irrigated	Yield deterioration due to continuous usages of same crop	Introduction of new intercropping system in rosemary crop	4	Technology option 1 Rosemary as a pure crop Technology option 2 Rosemary inter cropped with French beans Technology option 3 Rosemary inter cropped with Onion	<ul style="list-style-type: none"> Yield of pure crop and Intercrop, B:C Ratio 	Yield of pure crop, Intercrop T1: 6.8T/ha T2: 7.3T/ha T3: 6.9T/ha B:C Ratio T1: 1.40 T2: 1.60 T3: 1.54	T1: 6.8T/ha T2: 7.3T/ha+ 1200Kgs of Beans T3: 6.3T/hac+900Kgs of Onion (Both intercrops significant yield was recorded)	Intercropping system accepted by rosemary growing farmers due to enhance the yield in both inter crops and reduce cultivation operation practices.	Nil	Nil

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) Pure rosemary crop		6.8 Hac	6800 Kgs /Hac	45000.00	1.4
Technology option 2 French beans		7.3 T/Hac	6900 Kgs /Hac +1200 Kgs of French beans	65000.00	1.6
Technology 3 Onion		6.9T/Hac	7300gs /Hac +900Kgs of French beans	60000.00	1.54

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

1. Title of Technology Assessed

Assessing the performance of intercrops in Rosemary cultivation

2. Problem Definition

Rosemary crop is perennial, remunerative and drought tolerant. This crop is being promoted by MYRADA KVK in the areas of Bargur, Kadambur, Arepalayam and Talavadi hills of Erode district since 2003 onwards with the motto of crop diversification and sustainable livelihood for farming communities. The farmers are cultivating rosemary as pure crop till from introduction, and they are not aware of inter crop cultivation between the two rows of rosemary plant.

3. Details of technologies selected for assessment

Technology option 1 Rosemary as a pure crop

Technology option 2 Rosemary inter cropped with French beans

Technology option 3 Rosemary inter cropped with Onion

4. Source of technology : NA

5. Production system and thematic area

Commercial crop based Production system and Assessing the performance of intercrops in Rosemary cultivation

6. Performance of the Technology with performance indicators

Interspaces of two plants of rosemary effectively used for intercrop cultivation (Onion and French beans) throughout the year. The performance of intercropping system was accepted by farmers due to additional income and proper weed management

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques

Farmers prefer the intercropping system with rosemary crop which suited to hilly regions of Erode District climatic condition. And also providing the additional income and simultaneously suppressing the weeds growth during the initial stage of rosemary crop.

8. Final recommendation for micro level situation

The performance of inter cropping system in rosemary crop is good and accepted by the farmers. This method of intercropping is possible to promote among the rosemary growers of hilly regions.

9. Constraints identified and feedback for research

It can be considered from research institution to standardize the spacing option for intercropping system.

10. Process of farmers participation and their reaction

Farmers are actively involved and participated in the demonstration and expressed that they could be able to gain additional income. Due to reduction of inter cultivation operations, input cost has been reduced. Both crops are acted as pest repellent. Nearby farmers are motivated to cultivate various inter crops (vegetables) in rosemary after this demonstration.

OFT – 4 (Animal science)

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Dairy	-	Production loss due to increase inter calving period	Estrus synchronization in dairy cows	5	Technology option :1 Practice AI when they come for estrus at different periods Technology option:2 Estrus synchronization with CIDR (Controlled Internal Drug Releasing device) Technology option :3 Estrus synchronization with Ovo sync technology	<ul style="list-style-type: none"> Intensity of estrum Conception rate 	Intensity of estrum T.O:1: 50% of animal –medium intensity,50% animal – weak intensity T.O:2: 70% animal-high intensity 20% animal-medium intensity,10% animal –weak intensity T.O.3: 80% animal –high intensity,10% animal –medium intensity,10% animal –weak intensity Conception Rate T.O.1: 40% T.O.2: 80% T.O.3: 60%	<ul style="list-style-type: none"> Conception rate in T.O.2:- 80% and T.O.3: 60 % were recorded High intensity was observed in T.O 3 (80% of animals) when compared to T.O.2 B:C ratio was higher in T.O.3 than T.O.2 	Estrus synchronization by using CIDR and ovo sync technology, avoid increased inter calving period and production loss.	Nil	Nil

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) Practice AI when they come for estrous at different periods	-	-	-	3546	1.1
Technology option 2 Estrus synchronization with CIDR (Controlled Internal Drug Releasing device)	TANUVAS, Chennai	-	-	8119	1.59
Technology option 3 Estrus synchronization with Ovo sync technology	TANUVAS, Chennai	-	-	8484	1.64

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

1 Title of Technology Assessed

Synchronization of estrus in dairy cows

2 Problem Definition

Farmers in Erode district are rearing dairy cows for their milk capacity which leads to additional income. Farmers are not following timely insemination for the cows, which leads to increase inter calving period, this in turn causes production loss. Most of the farmers are not aware of Synchronization of estrus using hormone for induction of estrus.

3 Details of technologies selected for assessment

Technology option 1: Doing AI when they come for estrus at different periods

Technology option 2: Estrus synchronization with CIDR (Controlled Internal Drug Releasing device)

Technology option3: Estrus synchronization with Ovo sync technology

4 Source of technology

TANUVAS, Chennai

5 Production system and thematic area

- Dairy farming
- Increase in inter calving period as well as dry period leading to production loss. Synchronization of estrus using PGF2 alpha in dairy cows will help the farmers for timely insemination to avoid increase in inter calving and dry period which in turn minimize the production loss and increase the profit.

6 Performance of the Technology with performance indicators

Conception percentage in TO2 was higher (80%) when compared to T.O. 3. But additional expenditure in CIDR technology (T.O.2) was observed.

7 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques

Conception rate in T.O2:-80% and T.O.3: 60 % were recorded. High intensity was observed in T.O 3 when compared to TO.2 at the same time B: C ratio was higher in T.O.3

8 Final recommendation for micro level situation

Both the technologies were effective for estrus synchronization in dairy animal. In the present field condition ovo sync is practically possible because of its easy accessibility to the farmers.

9 Constraints identified and feedback for research

Though the technology on CIDR is useful in inducing the estrus, non-availability of CIDR is the problem in the district to adopt the technology in time.

10 Process of farmers participation and their reaction

The identified beneficiaries were actively participated in the program. They expressed that both the technologies were effective for synchronization of estrus. The trial was very helpful for them to avoid increase inter calving period which minimized the production loss.

OFT – 5 (Animal Science)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Poultry	-	Ranikhet disease	Control of Ranikhet disease in desi bird	5	Technology option :1 No vaccination or vaccination at 8th to 10 th week with RDVK vaccine Technology option:2 Lasota vaccine –Eye drops RDVK vaccine – 8th& 16th week Technology option :3 Oral pellet vaccine-10 th day& 8th week, RDVK- 16 th week	<ul style="list-style-type: none"> • Titre value in vaccinated birds • Occurrence of disease 	Observation is in progress	-	-	Nil	Nil

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) No vaccination or vaccination at 8 th to 10 th week with RDVK vaccine	-	-	-	-	-
Technology option 2 Lasota vaccine –Eye drops RDVK vaccine – 8 th & 16 th week	TANUVAS, Chennai	-	-	-	-
Technology option 3 Oral pellet vaccine-10 th day& 8 th week, RDVK-16 th week 3	TANUVAS, Chennai	-	-	-	-

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

1. Title of Technology Assessed

Control of Ranikhet disease in Desi bird

2. Problem Definition

The present scenario of poultry production in our country has increased the consumption of egg and chicken meat. Desi chicks are potential source to increase the availability of poultry products in the village areas and thereby increase the health and economic status of the rural peoples. The Ranikhet disease still rank as one of the most serious viral diseases of poultry which leads to high mortality rate.

3. Details of technologies selected for assessment

Technology option 1: No vaccination or vaccination at 8th to 10th week with RDVK vaccine

Technology option 2:

Lasota vaccine –Eye drops

RDVK vaccine – 8th & 16th week

Technology option3:

Oral pellet vaccine-10th day& 8th week

RDVK vaccine -16th week

4. Source of technology

TANUVAS, Chennai

5. Production system and thematic area

Production system- Poultry production

Unexpected losses in poultry due to the most serious viral disease named Ranikhet disease. The viral diseases are difficult to control as they spread very quickly and there are no management practices. Control of Ranikhet disease in Desi bird will help the farmers to reduce mortality and get more income.

6. Performance of the Technology with performance indicators

The trial has been started in the month of February 2011, the trial is in progress

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-

OFT – 6 (Agricultural Engineering)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy	Irrigated	Labour scarcity	Performance and suitability of different weeders in SRI	2	<ul style="list-style-type: none"> Rotary weeder Conoweeder Multi row power weeder 	<ul style="list-style-type: none"> Field capacity (ha/day) Cost of operation (Rs/ha) Weed control Efficiency (%) No. of productive tillers/hill Yield B:C ratio 	<p>Field capacity T1: 0.08 T2: 0.12 T3: 0.84</p> <p>Cost of operation T1: 6975/- T2: 5100/- T3: 3030/-</p> <p>Weed control Efficiency T1: 80% T2: 84% T3: 77%</p> <p>No. productive tiller/ hill</p> <p>T1:12.2 T2: 14.5 T3: 13.6</p> <p>Yield T1:4725 T2: 5062 T3: 4987</p> <p>B.C ratio T1: 1.32 T2: 1.43 T3: 1.43</p>	<p>Multi row power weeder is suitable to the district to manage labour scarcity.</p> <p>The cost of operation is less in.Multi row power weeder as compared to other weeders</p> <p>Weed control efficiency is more in conoweeder when compared to other weeders Because of its close operations between the plant</p>	Multi row power weeders is useful for timely weeding operation and it covers an acre within one hour	Nil	Nil

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) Rotary weeder	TNAU	4725.00	Kg/ha	12428	1:1.32
Technology option 2 Conoweeder	TNAU	5062.50	Kg/ha	16692	1:1.43
Technology option 3 Multi row power weeder	TNAU	4987.50	Kg/ha	16288	1:1.43

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

1 Title of Technology Assessed

Assessing the performance of suitability of various weeders in paddy cultivation

2 Problem Definition

Rice is the major crop cultivated in Erode district in 38,357 ha. The yield of rice crop was mainly determined by weeding and proper nutrient management practices. Now the district is facing acute labour shortage for agricultural work. Due to this ,weeding operation was not carried out in time .The weeds are compete with main crops for nutrient, water, light and spacing and finally the weeds are occupied major area within a short span and reduce the yield of main crop. Hence farm mechanization is needed to solve the labour shortage problem.

3 Details of technologies selected for assessment

Technology option 1 Rotary weeder

Technology option 2 conoweeder

Technology option 3 Multirow power weeder

4 Source of technology

TNAU, Coimbatore

5 Production system and thematic area

Rice based cropping system . Timely weeding with farm mechanization to solve labour scarcity problem

6 Performance of the Technology with performance indicators

- The field capacity (ha/day) is more in multi row power weeder (0.84 ha/day) as compared to cono weeder and rotary weeder
- The cost of operation is less in Multi row power weeder (Rs.3030/- per ha) when compared to rotary power weeder (Rs.6975/- per ha) and cono weeder (Rs.5100/- per ha)
- It was observed that the weed control efficiency is better in cono weeder (84%) than in rotary power weeder (80%) and multi row power weeder (77%)

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques

Multi row power weeders is useful for timely weeding operation and it covers an acre within one hour. Even though the power weeder is very useful in the earlier stages of crop, one more weeding is needed to improve the yield of main crop and it is possible only through the manual weeders or hand weeding.

8. Final recommendation for micro level situation

The multi row power weeder is useful for the farmers for timely weeding operation It reduces the cost of operation and solves the labour shortage problem.

9. Constraints identified and feedback for research

It was observed multi row power weeder, the weed could not be managed fully in the field condition.

10. Process of farmers participation and their reaction

The farmers were are actively involved in the trial and they felt that multi row power weeder is easy to operate than rotary weeder and cono weeder

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	Details of refinement done
1	2	3	4	5	6	7	8	9	10	11
-	-	-	-	-	-	-	-	-	-	-

Contd..

Technology Refined	Source of Technology for Technology Option1/ Justification for modification of assessed Technology Option 1	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
Technology Option 1 (best performing Technology Option in assessment)	-	-	-	-	-
Technology Option 2 (Modification over Technology Option 1)	-	-	-	-	-
Technology Option 3 (Another Modification over Technology Option 1)	-	-	-	-	-

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

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

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Integrated nutrient management in maize		
Plant height (cm)	204.6	191.8
Cob length (cm)	27.2	24.1
Cob girth (cm)	16.3	14.7
Technology demonstration for harnessing pulses productivity		
Plant height (cm)	31.3	25.4
Test weight (gram)	4.7	4.4
Popularization of Arka suvitha		
Pod length (cm)	18.45	15.5
Pod colour	Light Green	Dark green
Consumer preference	More	Less
Market price (Rs./Kg)	15.00	8.00
No.of harvest	14times	8times
Papaya mealy bug management		
Papaya mealy bug damage (%)	15.38	100
Papaya mealy bug population/tree	98	1300

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

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

5.B.4. Other enterprises

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m ² }	Yield (q/ha)			Check if any	% Increase	*Economics of demonstration (Rs./unit) or (Rs./m ²)				*Economics of check (Rs./unit) or (Rs./m ²)			
					Demo					Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Oyster mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Button mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify) Demonstration of CRIDA model vegetable preservator	The demonstration will be initiated in the month of May 2011																

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

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

5.B.6.4 Demonstrations on farm implements

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

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

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

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

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1	Black gram	Technology demonstration on harnessing pulses productivity	Integrated crop management practices along with foliar application of pulse wonder increase the black gram yield (17.09%) than the farmers practice
2	Maize	Integrated nutrient management in maize	Foliar application of maize maxim at the time of tassel initiation and cob filling will induce the yield of maize compared to single spraying
3.	French beans	Popularization of Arka Suvitha	42.59% of yield increased was recorded when compared to Arka Komal variety
4	Fodder	Popularization of mixed fodder	30 % increased in milk yield was observed by animal feeding with cereal, pulse & tree fodder daily.
5	Dairy	Popularization of location specific mineral mixture	15 % increased in milk yield , fat 0.4%and SNF-.0.2% increased was observed by animal feeding with mineral mixture 30 -40 gm /day .
6	Poultry	Popularization of Kaveri chicken	Body weight at 7 months of age was 3.3 kg(female), 4.1 kg (male) when compared to local desi bird and laying started from 20 weeks
7	Poultry	Popularization of desi bird(Aseel)	Body weight at 7 months of age was 2.9(female) , 3.8(male) and laying started from 21 weeks
8	Poultry	Popularization of Incubator	Hatchability percentage increased (75%) when compared with traditional practices in hatching of poultry eggs(60%)
9.	Mush room cultivation	Motorized chaff cutter	80% labour was saved with motorized chaff cutter. Rs. 704 was saved towards labour cost for 250 beds.
10.	Papaya	Integrated insect pest management	Spray of chemical insecticides with botanicals alternatively combined with rain showers after few days of spray resulted in good control of mealy bugs
11.	Paddy	Popularization of mechanized paddy transplanter	84.78% of labour could be saved and yield was recorded as 64.22q/hac

5.B.6.7 Farmers' reactions on specific technologies

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1	Black gram	Technology demonstration on harnessing pulses productivity	Application of micronutrients and foliar application of pulse wonder increase the yield of black gram
2	Maize	Integrated nutrient management in maize	Foliar application of maize maxim increases the yield up to 10 percent
3.	French beans	Popularization of Arka suvitha	This variety fetched net return sum of Rs.140132.00 /hac. when compare with regular variety
4	Fodder	Popularization of mixed fodder	The animals are preferring to take different fodder variety and wastage is less when compare with regular feeding pattern
5	Dairy	Popularization of location specific mineral mixture	An additional amount of Rs.2/liter was gained due to increased quality and quantity of milk
6	Poultry	Popularization of Kaveri chicken	Increased body weight and more egg production (40 eggs in 2 months)was observed
7	Poultry	Popularization of Desi bird (Aseel)	Consumer preference was more and egg production (38 eggs in 2 months) was high when compared to existing Desi bird.
8	Poultry	Popularization of Incubator	Initial investment is higher in purchase of incubator and hence financial support is needed for the farmers.
9.	Mush room cultivation	Motorized chaff cutter	The time and labour was saved with motorized chaff cutter when compare with manual operation.
10.	Papaya	Integrated insect pest management	Alternate application of both chemicals and insecticides were effectively controlled the mealy bugs in papaya
11	Paddy	Popularization of mechanized paddy transplanter	Weeding operation is very easy when compared to traditional plantation. Plants age was reduced 10-15 days, which favours farmers to harvest earlier.

5.B.6.8 Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days	11	242	Shared results and performance of the technologies between the KVK- Scientist and Farmer-Farmers held in the field day
2	Farmers Training	24	480	Awareness, performance of the technologies have been disseminated to the farmers
3	Media coverage	5	-	The technologies have been popularized through News papers ,Farm news letter and etc.,
4	Training for extension functionaries	6	217	Organized experience sharing programs on the performance of the technologies with extension functionaries for popularization

Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom production	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
TOTAL	41	528	304	822	67	82	149	595	386	981

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

Area of training	No. of	No. of Participants								
	Courses	General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	3	27	11	38	22		22	49	11	60
Resource Conservation Technologies	1	28		28			0	28	0	28
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming	1	22		22	8		8	30	0	30
Micro Irrigation/Irrigation				0			0	0	0	0
Seed production	1	20		20	7	1	8	27	1	28
Nursery management	2	14	12	26	5	2	7	19	14	33
Integrated Crop Management	4	55	15	70	20	11	31	75	26	101
Soil and Water Conservation	6	65	8	73	13	9	22	78	17	95
Integrated Nutrient Management	3	32		32	22		22	54	0	54
Production of organic inputs	2	29	5	34			0	29	5	34
Others:				0			0	0	0	0
Climate Change and its effect on human and crop development	2	58	62	120	20	22	42	78	84	162
Horticulture				0			0	0	0	0
a) Vegetable Crops				0			0	0	0	0
Production of low value and high volume crop				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
Organic farming practices	4	85	11	96	29	10	39	114	21	135
b) Fruits				0			0	0	0	0
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit	5	124		124	36		36	160	0	160
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0

c) Ornamental Plants				0			0	0	0	0
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
d) Plantation crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
e) Tuber crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
f) Spices				0			0	0	0	0
Production and Management technology	3	61	12	73	10	15	25	71	27	98
Processing and value addition				0			0	0	0	0
Others - Organic Farming	1	22	10	32			0	22	10	32
g) Medicinal and Aromatic Plants				0			0	0	0	0
Nursery management				0			0	0	0	0
Production and management technology	7	165	26	191	89	14	103	254	40	294
Post harvest technology and value addition	1	28	32	60	27	13	40	55	45	100
Others - Marketing management in Rosemary crop1	1	25	10	35			0	25	10	35
Soil Health and Fertility Management				0			0	0	0	0
Soil fertility management	2	25	16	41	13	19	32	38	35	73
Integrated water management				0			0	0	0	0
Integrated nutrient management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient use efficiency				0			0	0	0	0
Balanced use of fertilizers				0			0	0	0	0
Soil and water testing				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
Livestock Production and Management				0			0	0	0	0
Dairy Management	4	31	21	52	26	11	37	57	32	89
Poultry Management	1	16	14	30			0	16	14	30
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management	6	55	86	141	22	52	74	77	138	215
Animal Disease Management	4	28	26	54	12	25	37	40	51	91

Feed and Fodder technology	6	72	68	140	9		9	81	68	149
Production of quality animal products				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
Integrated Farm Development	2	21	16	37			0	21	16	37
Effective utilization of animal resources	1	7	9	16			0	7	9	16
Advantages of upgradation of local goat	1	12	9	21			0	12	9	21
Home Science/Women empowerment				0			0	0	0	0
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Processing and cooking				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	7	20	12	32		52	52	20	64	84
Women empowerment				0			0	0	0	0
Location specific drudgery production	2	4	29	33			0	4	29	33
Rural Crafts				0			0	0	0	0
Women and child care	3	4	52	56		12	12	4	64	68
Others (pl.specify)				0			0	0	0	0
Agril. Engineering				0			0	0	0	0
Farm machinery and its maintenance	6	85	22	107	60		60	145	22	167
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Others - Solar power fencing	3	42	7	49			0	42	7	49
Plant Protection				0			0	0	0	0
Integrated Pest Management	4	86	18	104	20	4	24	106	22	128
Integrated Disease Management	2	55	10	65	5		5	60	10	70
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides	1	11	2	13			0	11	2	13
Others (pl.specify)				0			0	0	0	0
Fisheries				0			0	0	0	0
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0

Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
Production of Inputs at site				0			0	0	0	0
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
Capacity Building and Group Dynamics				0			0	0	0	0
Leadership development				0			0	0	0	0
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
Agro-forestry				0			0	0	0	0
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Others (Pl. specify)				0			0	0	0	0
TOTAL	102	1434	631	2065	475	272	747	1909	903	2812

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	4	68	15	83				68	15	83
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Mushroom Production	1		15	15					15	15
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Any other – Organic farming practices	1	15	5	20				15	5	20
TOTAL	6	83	35	118				83	35	118

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Mushroom Production	2	-	24	24	-	-	-	-	24	24
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Any other (pl.specify)	1	30	-	30	-	-	-	30	-	30
Banana micro nutrient mixture preparation										
TOTAL	3	30	24	54	-	-	-	30	24	54

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	3	22	8	56	-	-	-	48	8	56
Integrated Pest Management	1	16	6	22	-	-	-	16	6	22
Integrated Nutrient management	1	16	2	18	-	-	-	16	2	18
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	1	30		30				30		30
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	2	18	8	26	6	4	10	24	12	36
Livestock feed and fodder production	1	13	2	15	-	-	-	13	2	15
Household food security	-	-	-	-	-	-	-	-	-	-
Any other – Contract Farming	1	25	10	35	-	-	-	25	10	35
Total	10	140	36	202	32	4	10	172	40	212

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Any other – Banana micro nutrient mixture and its application	1	30		30	-	-	-	30		30
Integrated farm Development	1	14	7	21	-	-	-	14	7	21
Medicinal Aromatic plant	1	45	5	50	-	-	-	45	5	50
Total	3	89	12	101	-	-	-	89	12	101

7.G. Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management	-	-	-	-	-	-	-	-	-	-
1.a.	Increasing production and productivity of crops	2	44	2	46	-	-	-	44	2	46
1.b.	Commercial production of vegetables	1	26	7	33	-	-	-	26	7	33
2	Production and value addition	-	-	-	-	-	-	-	-	-	-
2.a.	Fruit Plants	3	-	45	45	-	-	-	-	45	45
2.b.	Ornamental plants	-	-	-	-	-	-	-	-	-	-
2.c.	Spices crops	13	597	87	684	21	12	33	618	99	717
3.	Soil health and fertility management	4	97	58	155	-	-	-	97	58	155
4	Production of Inputs at site	6	65	88	153	-	-	-	65	88	153
5	Methods of protective cultivation	1	16	2	18	-	-	-	16	2	18
6	Others (precision farming)	1	25	7	32	-	-	-	25	7	32
7	Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
7.a.	Processing and value addition	9	184	86	270	95	21	116	279	107	386
7.b.	Others	-	-	-	-	-	-	-	-	-	-
8	Farm machinery	-	-	-	-	-	-	-	-	-	-
8.a.	Farm machinery, tools and implements	3	74	6	80	-	-	-	74	6	80
8.b.	Others	-	-	-	-	-	-	-	-	-	-
9.	Livestock and fisheries	-	-	-	-	-	-	-	-	-	-
10	Livestock production and management	-	-	-	-	-	-	-	-	-	-
10.a.	Animal Nutrition Management	2	35	14	49	-	-	-	35	14	49
10.b.	Animal Disease Management	3	28	17	45	11	5	16	39	22	61
10.c.	Fisheries Nutrition	-	-	-	-	-	-	-	-	-	-
10.d.	Fisheries Management	-	-	-	-	-	-	-	-	-	-
10.e.	Others (Concentrate feed and mineral mineral mixture)	1	-	25	25	-	-	-	-	25	25
11.	Home Science	-	-	-	-	-	-	-	-	-	-
11.a.	Household nutritional security	-	-	-	-	-	-	-	-	-	-
11.b.	Economic empowerment of women	3	4	68	72	-	-	-	4	68	72
11.c.	Drudgery reduction of women	-	-	-	-	-	-	-	-	-	-
11.d.	Others	-	-	-	-	-	-	-	-	-	-
12	Agricultural Extension	-	-	-	-	-	-	-	-	-	-
12.a.	Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
12.b.	Others (crop diversification)	1	42	37	79	-	-	-	42	37	79
	Climate change and farm development	2	78	84	162	-	-	-	78	84	162
	Experience of Kendra activities	1	13	16	29	-	-	-	13	16	29
	Integrated farm development	3	54	9	63	-	-	-	54	9	63
	Total	59	1382	658	2040	127	38	165	1509	696	2205

Details of sponsoring agencies involved

1. NABARD, Chennai
2. NHRDF, Dindigul
3. DASD, Calicut
4. Integrated cooperative development programme, Erode
5. Department of Agriculture, Erode
6. Department of Horticulture, Erode
7. TNAU, Coimbatore
8. Agricultural Research Station, Bhavanisagar
9. Hope in Nilgris, Ooty
10. Department of Agriculture engineering ,Erode
11. Spice board, Coimbatore
12. Tamilnadu women development corporation (TNWDP), Chennai
13. Vilgro, Gobi.
14. ITC, Kolkata
15. VUTRC, Erode
16. Bannaiamman institute of Technology,- Technology business incubator Sathy
17. Horticulture college and research Institute, Coimbatore.
18. IIHR, Banagalore
19. NRCB, Trichy
20. ICDP- Erode

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

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Crop production and management	-	-	-	-	-	-	-	-	-	-	-
1.a.	Commercial floriculture	-	-	-	-	-	-	-	-	-	-	-
1.b.	Commercial fruit production	-	-	-	-	-	-	-	-	-	-	-
1.c.	Commercial vegetable production	-	-	-	-	-	-	-	-	-	-	-
1.d.	Integrated crop management	-	-	-	-	-	-	-	-	-	-	-
1.e.	Organic farming	-	-	-	-	-	-	-	-	-	-	-
1.f.	Others	-	-	-	-	-	-	-	-	-	-	-
2	Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-	-
2.a.	Value addition	-	-	-	-	-	-	-	-	-	-	-
2.b.	Others	-	-	-	-	-	-	-	-	-	-	-
3.	Livestock and fisheries	-	-	-	-	-	-	-	-	-	-	-
3.a.	Dairy farming	-	-	-	-	-	-	-	-	-	-	-
3.b.	Composite fish culture	-	-	-	-	-	-	-	-	-	-	-
3.c.	Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-	-
3.d.	Piggery	-	-	-	-	-	-	-	-	-	-	-
3.e.	Poultry farming	-	-	-	-	-	-	-	-	-	-	-
3.f.	Others : Artificial Insemination and its technique	1	9	1	10	-	-	-	9	1	10	
4.	Income generation activities	-	-	-	-	-	-	-	-	-	-	-
4.a.	Vermi-composting	-	-	-	-	-	-	-	-	-	-	-
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.	-	-	-	-	-	-	-	-	-	-	-
4.c.	Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-	-
4.d.	Rural Crafts	-	-	-	-	-	-	-	-	-	-	-
4.e.	Seed production	-	-	-	-	-	-	-	-	-	-	-
4.f.	Sericulture	-	-	-	-	-	-	-	-	-	-	-
4.g.	Mushroom cultivation	1	1	17	18	-	-	-	1	17	18	
4.h.	Nursery, grafting etc.	-	-	-	-	-	-	-	-	-	-	-
4.i.	Tailoring, stitching, embroidery, dying etc.	-	-	-	-	-	-	-	-	-	-	-
4.j.	Agril. para-workers, para-vet training	-	-	-	-	-	-	-	-	-	-	-
4.k.	Others	-	-	-	-	-	-	-	-	-	-	-
5	Agricultural Extension	-	-	-	-	-	-	-	-	-	-	-
5.a.	Capacity building and group dynamics	-	-	-	-	-	-	-	-	-	-	-
5.b.	Others	-	-	-	-	-	-	-	-	-	-	-
	Grand Total	2	10	18	28	-	-	-	10	18	28	

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	9	117	68	185	4	12	16	5	-	5
Kisan Mela	-	-	-	-	-	-	-	-	-	-
Kisan Ghosthi	-	-	-	-	-	-	-	-	-	-
Exhibition	7	6122	1941	8063	293	178	461	34	11	45
Film Show	13	640	129	769	11	2	13	8	-	8
Method Demonstrations	-	-	-	-	-	-	-	-	-	-
Farmers Seminar	3	328	55	383	37	20	57	21	7	28
Workshop	2	52	14	66	2	1	3	-	-	-
Group meetings	4	60	27	87	-	-	-	-	-	-
Lectures delivered as resource persons	9	412	719	1131	-	-	-	40	12	52
Newspaper coverage	11	-	-	-	-	-	-	-	-	-
Radio talks	2	-	-	-	-	-	-	-	-	-
TV talks	-	-	-	-	-	-	-	-	-	-
Popular articles	2	-	-	-	-	-	-	-	-	-
Extension Literature	6	-	-	-	-	-	-	-	-	-
Advisory Services	67	53	14	67	-	-	-	-	-	-
Scientific visit to farmers field	231	199	32	231	-	-	-	-	-	-
Farmers visit to KVK	216	239	80	319	2	2	4	-	-	-
Diagnostic visits	127	133	55	188	28	14	42	-	-	-
Exposure visits	5	95	3	95	-	-	-	25	-	25
Ex-trainees Sammelan	4	36	4	40	-	-	-	-	-	-
Soil health Camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	4	1321	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	1	86	11	97	-	-	-	-	-	-
Farm Science Club Conveners meet	3	18	7	25	9	-	9	27	7	34
Self Help Group Conveners meetings	81	912	331	1251	-	-	-	13	2	15
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days	-	-	-	-	-	-	-	-	-	-
Any Other (Specify)	-	-	-	-	-	-	-	-	-	-
Total	804	10203	3488	12985	386	229	605	173	39	212

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)	Paddy	ASD-16	-	30	72000.00	120
	Ragi	GPU-28	-	30	36000.00	300
Oilseeds						
Pulses	Blackgram	VBN-3	-	8	60000.00	80
Commercial crops	-	-	-	-	-	-
Vegetables	French beans	Arka komal	-	50	400000.00	250
Flower crops	-	-	-	-	-	-
Spices	Turmeric	BSR-2	-	30	105000.00	3
Fodder crop seeds	-	-	-	-	-	-
Fiber crops	-	-	-	-	-	-
Forest Species	-	-	-	-	-	-
Others (specify)	-	-	-	-	-	-
Total	-	-	-	148	673000.00	753

9.B. Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Commercial						
Vegetable seedlings	Tomato	-	Lakshmi 5005	75000	37500.00	7
	Brinjal	Local	-	100000	50000.00	10
	Chillies	-	Wonder hot	125000	62500.00	13
Fruits	-	-	-	-	-	-
Ornamental plants	-	-	-	-	-	-
Medicinal and Aromatic	Rosemary	Ooty-1	-	1150000	2300000.00	150
Plantation	Coconut	Tall	-	250	6250.00	25
Spices	-	-	-	-	-	-
Tuber	-	-	-	-	-	-
Fodder crop saplings	Cumbu napier	CO-4	-	52750	21100.00	70
Forest Species	Melia dubia	Local	-	9000	90000.00	18
Others(specify)	-	-	-	-	-	-
Total	-	-	-	1512000	2567350.00	293

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers	Vermicompost	10000	40000.00	10
Bio-fungicide	Pseudomonas fluorescens	714	57120.00	300
	Trichoderma viride	633	50640.00	284
Bio Agents				
Others (specify) Banana booster	Banana micro nutrient mixture	300	42000.00	75
Total		11647	189160.00	669

9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows	-	-	-	-
Buffaloes	-	-	-	-
Calves	-	-	-	-
Others – goat	Tellicherry	25	100000.00	22
Poultry	-	-	-	-
Broilers	-	-	-	-
Layers	-	-	-	-
Duals (broiler and layer)	-	-	-	-
Japanese Quail	-	-	-	-
Turkey	-	-	-	-
Emu	-	-	-	-
Ducks	-	-	-	-
Others	-	-	-	-
Piggery	-	-	-	-
Piglet	-	-	-	-
Others	-	-	-	-
Fisheries	-	-	-	-
Fingerlings	-	-	-	-
Others	-	-	-	-
Total				

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

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

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

Date of Start	Periodicity	No. of Copies Distribution
June 1996	Quarterly	6000 copies

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	-	-	-
Technical reports	• Booklet on Rosemary cultivation	Mr.Pachiappan,	500
	• Booklet on Commonly erected structure	KVK Team	1000
	• Booklet on Rosemary recipe	Mr. P.Pachiappan SMS, (Horticulture) & Ms.Siva, SMS (Home Science)	500
	• Small orchard development	KVK Team	15
News letters	• Uzhavar Malar	KVK Team	6000
Technical bulletins	-	-	-
Popular articles	• Kendra's experiences on farm trial effect of EM in uptake efficiency, cost reduction, quality & milk production	Ms.Alamelu, SMS (Animal Science)	1500
	• Kendra's experience on farm trial on quality enhancement of banana fibre	Ms.Siva, SMS (Home Science)	1500
	• Organic farming practices	Mr.Pachiappan, SMS, (Horticulture)	100
Extension literature	• Pamphlet on Bio Fungicide in Plant Protection	Ms.Ashalatha, SMS (Plant Protection)	1000
	• Book let on Production technology in Banana	Mr.Pachiappan, SMS, (Horticulture)	1000
	• Folder on Herbal treatment in livestock & poultry diseases	Ms.Alamelu, SMS (Animal Science)	1000
	• Folder on Azola cultivation	Ms.Alamelu, SMS (Animal Science)	500
	• Folder on Eco san with IFD	Ms.Siva, SMS (Home Science)	500
Farmers Calendar – 2011	• Quality Water (Farm and Drink)	KVK Team	2000
TOTAL			

10. B. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1.	VCD	Rosemary cultivation	1
2.	VCD	Banana stem trap method	1
3.	VCD	Mastitis management in dairy cow by using of Aloe vera	1
4.			
-NIL-			

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

TURMERIC HARVESTER – AN INNOVATIVE FARMER’S PRIDE

Background

Erode is located in western parts of Tamilnadu lying between 10.36° to 11.58° North Latitude and 76.49° to 77.58° East Longitude and 171.91m above mean sea level. Agriculture is the primary occupation of Erode district. The climatic conditions and predominant soil type found in Erode district include red sandy and red loam soil which is suitable for cultivation of cash crops like turmeric, sugarcane, cotton and food crops like paddy, ragi and horticultural crops like garlic, potato, beans, etc.

Erode district has a potential area and conducive climate for turmeric cultivation. Potential market value and awareness on cultivation of turmeric crops has triggered interest in cultivating turmeric as a major crop among the farmers. The area under cultivation of turmeric is doubled (14000 ha) in the last two years. Even the area under cultivation of turmeric crop increased, there was an acute



labour shortage was faced by the farmer in the main operations like weeding and especially in the harvest season. Around 30-40 pairs of skilled labour are required for harvesting an acre field.

Intervention

This is the root cause of Kendra to think of an alternate method which could circumvent the labour problem in collaboration with innovative/progressive farmers of the district. Kendra has conducted interface meetings amongst the farmers as well as the leading engineering colleges

located in Erode district. This effort finally yielded an excellent innovative farmer design of power tiller mounted automated turmeric harvester.

Mr. P. Ramaraj, the innovative farmer conceived alternative solution in harvesting of Turmeric crop. Thereby, he developed equipment named 'Turmeric harvester' in March 2010 after three years of his continuous efforts in developing the same.

Advantages

- The harvester can be easily operated with the support of power tiller. Though it is small, adaptability and transportation of the machine is easy. All the farmers are interested to purchase the machine.
- During machine operation, less consumption of fuel is observed.
- By using the harvester for harvesting turmeric rhizome, there is chance to reduce the female labour for harvesting.
- By using of harvester, around Rs.7500.00 per acre can be saved in terms of labour.
- The Benefit cost ratio worked out comes to 1:3.3
- During the harvesting season of turmeric, the labours usually engaged for the work are unskilled and they perform the harvest of rhizomes imperfectly leading to wastage and yield loss. But, when the harvester machine is being used, the harvesting of rhizomes is done completely without any wastage and yield loss.



ROLE OF KVK-MYRADA, ERODE

Myrada KVK noticed his commitment towards the development of turmeric harvester in different stages. KVK encouraged the effort to accomplish his task. He has been provided with appropriate linkages particularly with Agricultural Engineering Department.

Most of the KVK trainings and seminar programme, his innovation was shared with fellow farmers and given back the feedback for refinement. He is a dynamic innovator, who always looks for opportunities to improve on his innovation.

He was honored by KVK in one of the major seminar programme, as best farmer innovator, and also help to get wider publicity in the district. Once ICAR, New Delhi, called to identify farmer innovator from the KVKs, Myrada KVK selected him for ICAR recognition.

Horizontal spread of the Technology

He has marketed 100 pieces of turmeric harvester to cover 100 farmers. Around 300 acres have been harvested using this equipment. It has the potential for large scale replication in future in all turmeric growing areas. With this earnest effort, another farmer (Mr. Shanmugam) developed a improved, easily operated turmeric harvester with the core objective of reducing the drudgery. He also marketed four pieces of turmeric harvester and recently the community managed resource centre located at kallipatti, purchased the one more turmeric harvester with the objective of promoting the mechanization in turmeric cultivation.

Economic gains

Apart from reducing Rs.7500/ acre towards labour for harvesting turmeric for the farmer, he started earning Rs.5000/unit by selling the equipment.

Recognition

He has been honored by the farming communities, farmers group MYRADA KVK and Department of Agriculture Engineering. In the recently concluded “Farm Innovators Meet” organized by ICAR, New Delhi which was held at KVK, Mysore and his innovation was recognized and honored.



A case study on Socio-Economic development of women Para-vet

Background:

Livestock plays a vital role in rural life and economy even today animal husbandry and agriculture are twin occupations which are practiced by the rural household since ancient times. Livestock rearing is being a way of life in rural areas and with more than seventy percent of the people relying on it. The farmers are in need of timely support to treat the animal to avoid the mortality and economic lose. In this context Kendra felt that, some educated, unemployed rural youth, if properly trained to provide timely precautionary measures, thus to improve the health scenario of livestock and also to increase the standards of living of the trained person.

Kendra which is technology transfer project has responsibilities of challenge technology to train the rural youth on Animal health promotion build their capacity to provide better Veterinary services to the community. At frequent intervals Kendra is imparting long term training on Animal Health Promotion (6 months) and developing effective trained youth and they are providing timely veterinary services to the un-reached areas. Totally 51 trainees in 6 batches were trained on Animal Health Promotion by Krishi Vigyan Kendra.

Case introduction:

Mrs. D.Bama aged 25 is coming from middle class rural family back ground from a small village called Kalingiyam near Gobichettipalayam. She is house wife having a 4 year old daughter studying in LKG. Her Husband working in company with an average income of Rs 5000 per month, with which they have to manage three members family. Her husband Mr.Damodaran who had constant communication with MYRADA KVK coincidentally came across an advertisement in the news paper regarding training on Animal health promotion. As he had already a job in hand, he encouraged Bama to attend the training .

Mrs. Bama joined in AH Promoters training in 2006-07 batches. After completing her six month training, she gained knowledge on Livestock management and employed herself as para-vet and started generating income out of the skill received in the training program.

Intervention:

- Identifying the interior places where there are no access to Veterinary services
- The interest persons were called for interview before the commencement of the course
- After which real interested members were selected for six months trainings
- During the training period students were taken to exposure visits to different organizations like State Animal Husbandry Department, Dispensaries, ASETI (Sponsored by Canara Bank), Aavin, Veterinary University Training and Research Center (VUTRC), Erode and TNAU Coimbatore.
- Trainees were placed in the dispensaries which are near to their local area to build relationship with Doctors and get familiar to the local people.
- Youth were trained on different types of veterinary service
- Youths were oriented on First Aid, de-worming, vaccination, artificial insemination and other need based techniques.
- They were also given up gradation training on artificial insemination with the support of TamilNadu Livestock Development Agency, Chennai.

Impact:

Details on various services provided by Mrs.Bama (December 2007- December 2010)

Nature of treatment	Cow, buffalo and bullock	Sheep and goat	Poultry
Deworming	1280	2250	-
Vaccination	1059	1367	830
First aid	66	158	37
Castration	45	197	-
Enteritis	93	535	-
Artificial insemination	346	-	-
Pregnancy diagnosis	358	-	-

Mrs. Bama says that, because of this training she is economically and socially stable, gained well recognition in her family and society. After stepping out of her limited boundaries from her

family responsibility she also been confidence to mingle with the people. This in turn has made her self sufficient and self reliant.



- Mrs. Bama covers totally of 12 villages in and around t Kms he Kalingiyam which spreads to more than 30
- She has purchased two-wheeler worth of Rs 28000 to attend distance cases on time
- Timely services to the village people and reducing burden of farmers (usually farmers spend a day to take cattle to hospital which would cut their daily wages and have to walk for 3-4 Kms)
- Mrs.Bama earns Five thousand rupees per month, now a day's which is the additional income for her family
- From her profession she has saved Rupees Ten thousand worth of gold (6 grams). And purchased some electrical appliances worth of Rs 5000.00
- Today she is also contributing 50 % of her daughters education. She also joined two chit funds of Rs .28000.00

Future plan:

In future she seeks to gain external services and expand her knowledge in this field. And also she plans to purchase a site and build a house of her own and finally aims to provide the best education to her daughter.

A success story on Ecological Sanitation

An innovative concept in Agriculture through Recycling of human waste (faeces) as manure for field application

Background

Malhuthipuram Doddi is a small village located in Talavadi hills of Erode district. This village has 50 households whose occupation is farming. In this village, 45 farmers are practicing integrated farm development to utilize the farm resources effectively in order to reduce the input cost and to sustain the farming enterprises. Eco-sanitation was adopted along with integrated farm development as one of the component.

Ecological sanitation is an approach that no longer treats human excreta as a waste product to be hidden or disposed off. Ecological sanitation recycles human excreta safely and productively to improve soils. It minimizes water consumption in sanitation. It protects water resources and the environment from sewage pollution thereby offering very comprehensive public health protection. The urine is invariably sterile and can be used as a liquid fertilizer, either by collection or directly to a plant bed or growing field.

The farmers started using Eco-San concept to use the recycled human manure for field application with the motivation of MYRADA- KVK, UNICEF, DRDA, Erode. The source of innovation was drawn from UNICEF, Delhi. The concept has been received from UNICEF, but the farmers redesigned the structure of the toilet and the collection chamber to suit the hilly regions. So with some modification the technology is being used by the farmers.

INTERVENTION

PROCESS OF TECHNOLOGY DEVELOPMENT

Conceptualization of idea

The concept has been inculcated to the farmers by KVK and the farmers started adopting eco-san model since it very well fitted in to the Integrated Farm Development model which focused on recycling of plant and animal waste and recycling of human excreta.

Scientific rationale for the innovation

In most ecological sanitation systems, urine and faeces are diverted at source and processed separately. Human excreta is safely contained within the ecological toilet, without odour, and transformed into a safe unobjectionable soil improver. In the process all the pathogens in the faeces are destroyed. The quantities of material per family are actually remarkably small (barely half a fridge full) and require removal only once a year or so. This removal is not an objectionable task at all as the product bears absolutely no resemblance to its origins in appearance, colour or odour.

Ecological sanitation offers many benefits:

- Preventing sewage pollution of rivers, water bodies
- Enhancing soils and reducing the requirement for chemical fertilizers
- Offering more comprehensive protection of public health than is attainable or affordable under current approaches
- Providing sanitation where it is most needed without the prerequisite of extensive infrastructure.

a. Experimentation /trial conducted

During initial period a field trail has been conducted during 2004 with four farmer's family (Ms.Rani was the first adopter) to demonstrate the eco-san technology to convince the farm family about the concepts and its value in safe disposal of human excreta and urine. But after seeing its usage by the farmers, another 36 families started adopting the technology.

b. Technical support during the experimentation period:

The KVK provides technical supports in construction of this new technology. Capacity building and exposures were arranged for them to learn about the Eco-sanitation concepts by KVK.

c. Supporting data for the innovation

The suitability of the technology has been demonstrated in other farm families of the village and the utility of the technology was noticed. The advantages of this technology had been realized by the farming community.

d. Any resource mobilization from outside for the development of innovation

Apart from the innovator's own contribution in finance, financial support was obtained from UNICEF and loan from Micro credit for sanitation from Self help group where the innovator had membership. She mobilized subsidy for the toilet construction from DRDA, Erode

e. Relative advantages of innovation (Attributes like adaptability, Eco-friendliness, Sustainability, gender friendliness, economic value, Benefit –Cost ratio etc.)

This innovation is Eco-Friendly, Gender friendly and easily adoptable. The compost obtained is enriched manure with high nutrient value and would be a good substitute for fertilizer.

IMPACT

a. Horizontal spread of innovation and no. farmers adopting

The technology from 4 numbers in Malhuthipuram doddi village was spread to 40 families and the exposure visit programmes (inside and outside the district) has made the technology to spread upto 655 Eco-sanitation units.

b. Socio-economic implication

The technology has resulted in clean village sanitation concept and also created impact on changing mindset among the other farm families to go for recycling of human excreta for field application. A family of four members can produce 400 kg of eco-san compost every year. The compost can be either applied directly or mixed with Farm yard manure or vermicompost. Thus this innovator says that she can save upto 50% of the fertilizer cost when applied in ragi and maize crop.

c. Presentation of innovation in Scientific forum

(i) The technology has been presented at III SACOSAN (South Asian Conference on Sanitation) conference in New Delhi organized by Ministry of Rural Development, New Delhi on 20 .11.2008.

(ii) The result of the concept was been shared among the forum of UNICEF team during the sanitation workshop at Chennai.

d. Publication on the innovation in farm Journals

The technology was published in Farm newsletter of KVK (Uzhavar Malar)

e. Media coverage of the innovation-TV, newspaper, radio talk, etc

The technology has been telecasted in Podigai channel (Doordarsan Television) and Published in 'The Hindu' (dated 14.01.2007, 10.12.2008) and Malai malar(14.09.2006),The New Indian Express(14.12.2006).

f. Display of innovation in Exhibition/ Kisan Melas etc

The technology has been displayed in exhibition conducted at Scientific Advisory Committee, Technology week Celebration, SHGs conveners meeting at DRDA, Erode, and Farmers Day celebration conducted at TNAU Coimbatore.

g. Feedback from farmers and other agencies

- The other farm families in M.P.doddi village have adopted Eco-sanitation by seeing the usage level of the innovator
- The farmers by seeing the compost felt that there was no odour and hesitation in using the compost and it looked like the vermicompost
- The farmers expressed that the technology has consumed less water when compared to conventional method of open defecation and the human waste could be recycled effectively without any harmful hindrance to the society
- Neighbouring villagers started replicating this technology after observing the nature of compost and the feedback received from the users.
- Other NGOs within and outside the district visited this model village and viewed this model as one of the best sanitation practice which ensures safe handling of human manure for agricultural purpose.
- NOVIB (one of the funding agency/Donor of MYRADA) provided financial support for implementation of eco-San after seeing its advantages in farming practices.

Action photograph



Eco-san system



Addition of ash/leaf litter to human faeces



Decomposed human waste ready to harvest



Eco-san compost (odour free)



Eco-san compost trial at maize field - Talavadi



a. Printed material/Electronic materials like CD, Video clippings etc.

- A folder on Eco-San has been developed
- A book on Integrated Farm Development –An User’s guide has been developed both in Tamil and English which explains the usage, design, and cost of eco-San.
- One On Farm Trail has been conducted on Recycling of human manure in enhancing Maize productivity
- UNICEF has published this innovation in its publication titled ‘ECO-SAN takes roots in Tamilnadu’
- India Country paper highlighted our experience on Eco-San with micro credit facilities through community Based Institution
- A documentary film on IFD has developed with the experience of this village which includes the eco-san usage



Conclusion

The Eco-san Concept has created positive impact among farming community for recycling the human manure for field application. Steps taken for motivation to use of nutrient rich human urine also in ahead and The gram panchayat called Thiginarai wherein this model village is placed has received NGP award (Nirmal Gram Puraskar) for the year 2008 for usage of Eco-Sanitation in the village. This innovation made other two panchayats in Talavadi and T.N.palayam block of Erode district to receive NGP award. In all these 3 panchayats, MYRADA KVK has implemented integrated farm development programme along with Eco-sanitation.

The innovative technology disseminated to more than 8000 people of different categories like Farmers, NGO officials, ICAR scientists, University students and Self Help Groups, Officials from foreign countries.

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

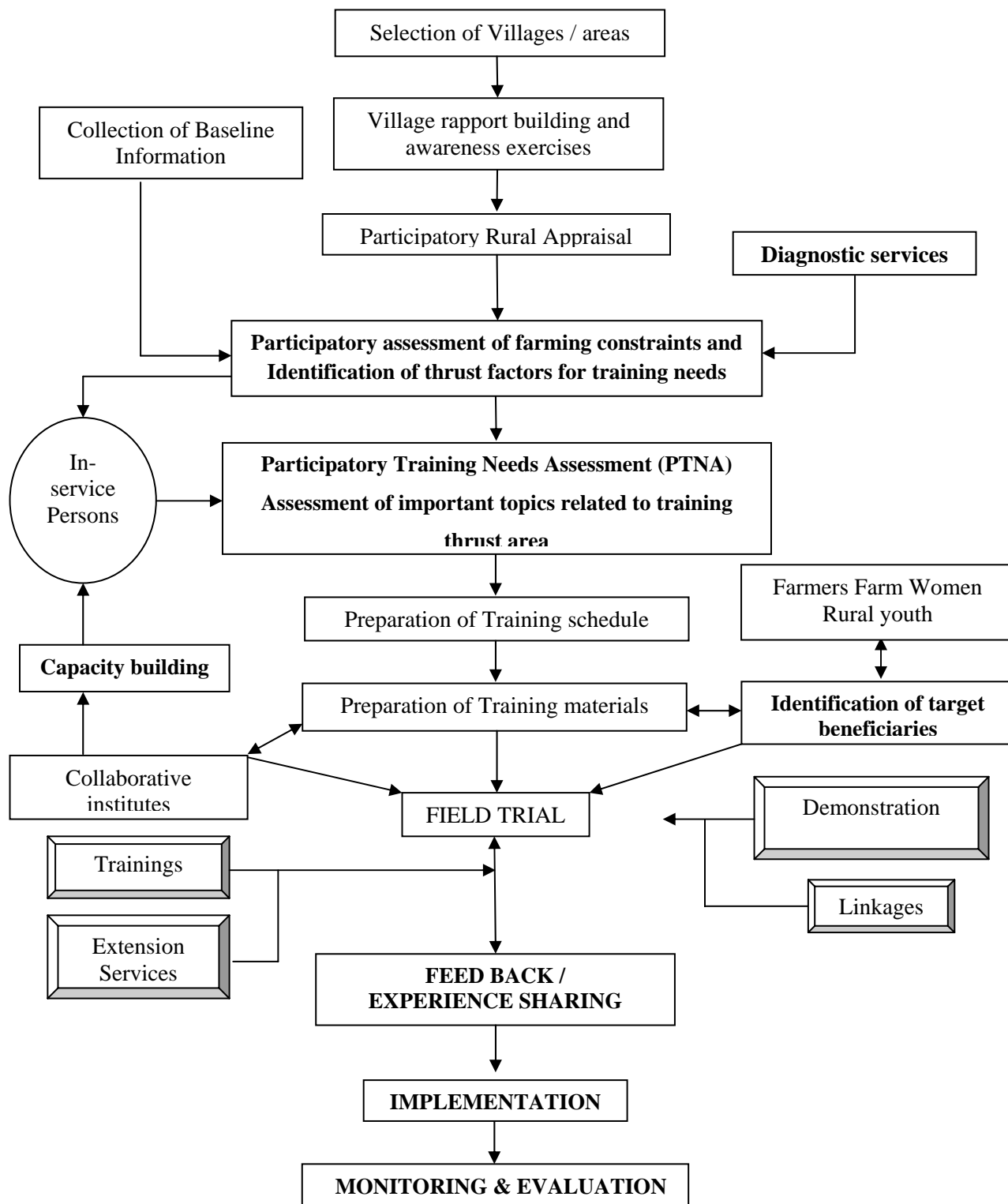
Challenges	Innovative methodology adopted	Output	Outcome
<ul style="list-style-type: none"> Lack of awareness among farmers on usage of bio inputs and its advantages Lack of proper production outlets for bio inputs 	<ul style="list-style-type: none"> Establishment of small scale bio control lab for producing bio fungicides (production unit) Marketing outlet established at CMRC, Kallipatti (blending unit) which is more accessible to farmers 2 MEDP training were organized to women entrepreneur 	<ul style="list-style-type: none"> 1347 kg of biofungicides produced (<i>Pseudomonas flourescens</i>, <i>Trichoderma viride</i>) 	<ul style="list-style-type: none"> Employment opportunity created for SHG/Farm women at CMRC (blending unit) ITC support for establishment of lab The farmers can easily access biofungicides in nearby CMRC
<ul style="list-style-type: none"> Lack of awareness and unavailability of crop specific micronutrients 	<ul style="list-style-type: none"> Establishment of micronutrient mixture production unit with the technical guidance of IIHR, Bangalore Marketing outlets established at CMRC level Marketing tie-up with Villgro (innovative marketing Ltd) for wider popularization 	<ul style="list-style-type: none"> 500 kg of banana boosters produced 	<ul style="list-style-type: none"> Employment opportunity created to the self help group members 200 farmers are used this crop boosters in their farming activity The farmers can easily access the booster in nearby CMRC
<ul style="list-style-type: none"> Lack of awareness among farmers on clean water concept 	<ul style="list-style-type: none"> Development of farmers' calendar 2011 entitled theme on "Quality water (Drinking and farm) English & Tamil version) 	<ul style="list-style-type: none"> 2100 copies 	<ul style="list-style-type: none"> Concept shared among various institutions (Agriculture Universities, KVKs, NGOs, Line departments of Tamilnadu, schools, PRI members, farmers, farmers associations, CMRCs,etc.)
<ul style="list-style-type: none"> Poor income generation due to the cultivation of non-profit crops 	<ul style="list-style-type: none"> A series of assessment were conducted by Kendra on assessment of suitable varieties of French beans for the hilly regions of Erode district Seeds has been procured from various intuition by CMRC and supplied to farmers 	<ul style="list-style-type: none"> 52 training were conducted to the farmers in order to inculcate the production technology for French beans Scientist and farmers interaction were arranged for better technological consultation and for feedback mechanisms 	<ul style="list-style-type: none"> 1250 ha area was covered by French beans 3.0 tones of quality seeds were supplied by CMRC to the farmers 50 percent of families annual income were gained from the French beans crops alone

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	Turmeric	Foliar Application of Chilli powder(0.1)	To manage the thrips
2.	Field and horticulture crops	Application of 10% Starter solution along with irrigation water	Enhance the soil fertility
3.	Field and horticulture crops	Foliar application cow urine (1%)	Induces plant growth
4.	Banana	Raising of Marigold as intercrop in Banana crop	Reduce the nematode infestation
5.	Field and horticulture crops	Raising of multi crop and in-situ ploughing	Soil enrichment
6.	Papaya	Neem oil (0.25%) and pungam oil (0.25%) spray with sticking agent	To manage the papaya mealy bug
7.	Guava and Hibiscus	Chilli, ginger, Garlic extract (250grams each in 2 liters of cow urine) with sticking agent	To manage the papaya mealy bug
6.	Poultry	Oral administration of small onion and Turmeric paste	To Control Newcastle diseases

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

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



10.G. Field activities

- i. Number of villages adopted : 122
 ii. No. of farm families selected : 1250
 iii. No. of survey/PRA conducted: : 52

10.H. Activities of Soil and Water Testing Laboratory*Status of establishment of Lab:*

1. Year of establishment : 29.07.2005
 2. List of equipments purchased with amount :

Sl. No.	Particulars	Quantity	Cost of Purchase (Rs)
1	Electronic Automatic Kel Plus Micro processor based six place, Macro block digestion	1 No.	59,166.00
2	Electronic Superior Automatic distillation system with digital display	1 No.	125,793.00
3	Grinder	1 No.	11,582.00
4	Spectro Photometer	1 No.	87,324.00
5	Flame Photometer	1 No.	42,713.00
6	pH Meter	1 No.	8,542.00
7	Digital Conductivity Meter	1 No.	8,542.00
8	Physical balance	1 No.	27,821.00
9	Chemical balance	1 No.	96,099.00
10	Shaker	1 No.	23,966.00
11	Oven	1 No.	9,769.00
12	Refrigerator	1 No.	17,499.00
13	Laboratory setup, Rack, Desk, Wash basin, Exhaust fan, Chemical and Glass wares	-	1,91037.00
Total cost			709,803.00

Details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	3722	3162	1833	1,12,110.00
Water Samples	2184	1805	1697	79,690.00
Plant samples	7	7	2	290.00
Manure samples	-	-	-	-
Total	5913	4974	3532	1,92,090.00

Details of samples analyzed during the 2010-11 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	122	132	117	4620.00
Water Samples	119	138	127	6040.00
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Total	241	270	244	10,660.00

10.I. Technology Week celebration

Period of observing Technology Week : From 15.12.2009 to 19.12.2009
 Total number of farmers visited : 729
 Total number of agencies involved : 2
 Number of demonstrations visited by the farmers within KVK campus : 9

Other Details

Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Gosthies	5	729	<ul style="list-style-type: none"> • Vegetables Cultivation technology • Organic Farming • Post harvest technology • Ethno veterinary practice • Value addition
Lectures organised	16	129	<ul style="list-style-type: none"> • Organic farming (Value addition, Post harvest management and marketing)- Mr. S.M. Achariya, Chairman, APEDA, New Delhi • Precision farming techniques in Vegetable crops – Dr.E.Vadivel, Professor (Hort.), Precision farming Programme, TNAU, Coimbatore • Production technologies & Nursery Practices for vegetable crops – Dr.P.Paramaguru, Prof. (Hort), HC&RI, TNAU, Coimbatore • Bio-intensive disease management in vegetable crops – Dr.D.Alie, Professor (Plant Pathology), ARS, TNAU, Bhavanisagar • Post harvest management in Vegetable Crops – Dr.V.K.Parthiban, Associate Professor, Post harvest technology centre, TNAU, Coimbatore • Marketing strategies for Vegetable Crops - Dr.S.Senthilnathan, Associate Professor, Dept.of Agrl. Economics, TNAU, Coimbatore • Soil Health Management – Thiru.T.Arulhasan, SMS (Soil Science) Myrada KVK, Gobi • Bio-Intensive Pest Management – Smt.R.Ashalatha, SMS, (Plant Protection) Myrada KVK, Gobi • Improved Onion cultivation practices – Thiru.A.B.Chougule, Joint Director, NHRDF, Dindigul • NHRDF activities in Tamilnadu – Smt.C.Devi, Tech.Officer, NHRDF, Dindigul • Value addition process- Dr. Nirmalakumari, Professor and, Department of Millets, TNAU, Coimbatore • Post harvest management- Dr. Down ambrose-CIAE, Coimbatore • Farm mechanization -Dr. Muthamilselvan-CIAE, Coimbatore • Renewable energy –Dr. Mahendran, Assistant professor, AEC&RI,TNAU, Coimbatore • Eethnoveterinary practices –Dr. Punuyamoorthy, TANUVAS, Thanjavur

Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Exhibition	4	612	<ul style="list-style-type: none"> • Drip Irrigation • Crop Insurance • Farm machinery • Fertilizer & pesticide • Organic products • Cow products • Livestock breeds • Solar power fencing • Fodder varieties • Value added products • Energy saving device • Storage structure and pest management device • Publications • Miniature models on Resource conservation technologies
Film show	6	729	<ul style="list-style-type: none"> • Integrated Farm Development • Chemical war • Drip irrigation system • Soil health management • Post harvest technologies • Bio Energy
Farm Visit	2	94	<ul style="list-style-type: none"> • Organic farming practices • Integrated Farm Development • Natural resource management • Farm Machinery
Diagnostic Practicals	9	357	<ul style="list-style-type: none"> • Energy saving device –Tree climber • TNAU model improved double pot chulah • Storage insect trap • Drip irrigation system • Sprayers • Bunch cover technology • Ground nut pod stripper • Indian gooseberry seed remover • Ground nut decorticator
Distribution of Literature (No.)	6	1210 copies	<ul style="list-style-type: none"> • Vegetable cultivation and techniques • Vermi compost • Ethno veterinary practices • Turmeric cultivation • Rosemary cultivation • Farmers calendar
Distribution of Seed (q)	1	377	<ul style="list-style-type: none"> • 100Kgs of Vegetable seeds • 75kgs of Maize seeds
Distribution of Planting materials (No.)	1	377	<ul style="list-style-type: none"> • 12000 setts of Co-4 fodder
Bio Product distribution (Kg)	1	377	<ul style="list-style-type: none"> • 852Kgs of Bio compost
Distribution of Livestock specimen (No.)	1	28	<ul style="list-style-type: none"> • 28 kids – Goat
Total number of farmers participated in the technology week programme	-	729	

PART XI. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Crop diversification(Rosemary)	584	95%	15000/ha	80000/ha
Animal health promotion-(Para-vet)	51	88.6%	Nil	4500-15000/month
Artificial insemination	30	82%	3500-6000/month	6000-10000/month
IPM in cotton	204	92%	14600/ac	16350/ac
Small scale nursery	35	65%	Nil	5000/month
Soil and Water conservation	975	75%	15000/ha	25869/ha
Bio gas	811	98%	Nil	Rs.800/family (fuel saving)
Mushroom cultivation	18	70%	1500/ month	3200-4000/month
Jute products making	12	62%	1200/ month	2500-4000/ month

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

11.B. Cases of large scale adoption

- Paddy (ASD 16) : 1000 hectare
- Integrated Farm Development : 1024 families
- Rosemary cultivation : 584 acres
- ELS Cotton cultivation and use of farm machinery : 350 acres
- Soil and Water Conservation : 11931.61 hectare
- System Rice Intensification : 1685 hectare
- French Beans (Arka Komal) : 1500 hectare
- French Beans (Arka Suvitha) : 125 hectare
- Ragi (GPU 28) : 500 hectare
- Ragi (CO 14) : 253 hectare
- Co-4 Fodder : 72.5 hectare

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

FRENCH BEANS – A REMUNERATIVE CROP FOR THE HILLY AREA FARMERS OF ERODE DISTRICT

Erode is located in western parts of Tamilnadu lying between 10.36° to 11.58° North Latitude and 76.49° to 77.58° East Longitude and 171.91m above mean sea level. Kadambur is located in the western hilly regions of Erode district with an elevation of 800-1000m MSL. Agriculture is the primary occupation of this area. The predominant soil types present in this location are red to red loamy. The agriculture activity is supported by open well/bore well. More than 60 percent area is comes under rain fed condition and it is mainly used for cultivation of dry crops like ragi and other minor millets. Due to the uncertainty of the rainfall and aberrant weather condition, the agricultural labour and farmers are migrated to the neighbouring districts (Apparel spinning mills of Tirupur and Coimbatore), for their regular income. The above cause leads to the productive land into unproductive and it is kept as a fallow over a period of time.

At this juncture, Kendra took an initiative on identifying an alternate suitable crop for this location with high remunerative income under both irrigated and rainfed condition. To find the suitability of the crop, Kendra took different horticultural crops like potato, carrot, French beans and garlic. Based on the suitability study, Kendra selected a French beans variety named “*Arka komal*” as a remunerative crop for the small and marginal farmers due to its high yield potentiality and market preference of the crop. Since from 1997, Kendra conducted various trials and demonstrations for performance analysis of the variety and its popularization in wider area. Kendra’s year wise action taken for the promotion of frenchbeans cultivation in the hilly areas of erode district was presented hereunder

Time line

Sl. no.	Year	Purpose	Variety	Name of the place					Total area (ac)	Remarks
				Arepalaym	Germalam	Kadambur	Talavadi	Bargur		
1.	1997	On farm Test	Arka komal	-	5	-	-	-	5	crop was demonstrated in different places for study the suitability of crops
2.	1998	FLD	Arka komal	-	50	-	-	-	50	Based on the performance of the crops, it was demonstrated under FLD
3.	1999	Area Extension	Arka komal	100	200	-	-	-	300	Crop was introduced in Arepalayam
4.	2000	Area extension	Arka komal	250	250	100	-	-	600	Crop is introduced in Kadambur hills
5.	2001	Area extension	Arka komal	300	300	250	100	-	950	Crop was introduced in Talavadi
6.	2002	Area extension	Arka komal	350	325	300	200	100	1275	Crop was introduced in Bargur hills
7.	2003	Area extension	Arka komal	400	375	350	250	150	1525	
8.	2004	Area extension	Arka komal	425	400	375	275	175	1650	
9.	2005	Area extension	Arka komal	450	425	400	300	200	1775	
10.	2006	Area extension	Arka komal	475	450	425	325	250	1925	
11.	2007	Area extension	Arka komal	500	475	450	350	275	2050	
12.	2008	OFT	Arka Suvitha	525	500	510	400	300	2245	Performance assessment of new variety was taken with the support of IIHR, Bangalore
13.	2009	FLD	Arka Suvitha	575	550	610	450	350	2585	Better performance with an yield of 21 t/ha and it is popularized
14.	2010	OFT	Arka anoop	575	550	635	475	400	2660	The new variety (Arka anoop) was taken for performance assessment

Apart from the on farm trial and frontline demonstration, Kendra conducted a volume of on campus and off campus training programme for the farmers and farm women involved in the beans cultivation. With these efforts the beans cultivation was increased remarkably into 2660 ac in Erode district.

Introduction of new varieties in the recent past increased the farmer's interest on growing beans in the larger area due to its high market value and consumer preference. The yield performance of various French beans under local farming conditions are

Sl.no	Variety	Yield (q/ha)
1	Arka komal	120.00
2	Arka suvidha	185.00
3	Arka anoop	190.00



Field view



Farmer-scientist interaction

Even though the average yields of French beans are mentioned in the above table, the maximum yield of 21.0 t/ha were reaped in Arka suvidha variety. The yield attributes were measured and documented with the support of IIHR, Bangalore. After this achievement, numerous farmers are showing interest on cultivation of French beans. Apart from that, the newly introduced varieties are having the special growth and yield attributes like

Arka Suvidha: *It is an improvement over Arka Komal in its stringless pods and high yield. It is a photo-insensitive, bushy variety with medium long (15-17cm), stringless, smooth, light green fleshy pods. It was developed by crossing Blue Crop and Contender by following pedigree method of breeding. It has the yield potential of 19.0 t/ha in 70 days.*

Chandana thendral community managed resource centre located in kadambur hills, helps the farmers to get a quality seeds, technical support, adequate knowledge on French beans cultivation and frequent interaction with the scientist and technical officers involved in the French beans promotions. This community managed resource centre functioning like a information centre of the farmers located in the kadambur region. Over the years, this centre is providing services for obtaining quality seeds to the farmers and the services are presented in the below table

Year wise service provided by the CMRC

Year	Service	Number of farmers benefited
2006	3.5 tones	156
2007	4.0 tones	198
2008	4.25 tones	205
2009	3.75 tones	158
2010	4.5 tones	209

Parameters observed between the varieties

Features	Arka Komal	Arka suvitha	Arka anoop
Pod Length (cm)	17.35	18.45	20.0
100 pod Weight (gm)	550	925	600
Color	Dark green	Light green	Light green
Disease tolerance	Susceptible rust & Anthracnose	Resistant to rust & Anthracnose	Resistant to rust & Anthracnose
No of Harvest	7 times	15 times	14 times
Yield (t/ha)	12.0	18.5	19.0
String	With string	String less	String less
Market price	Rs. 10	Rs. 13	Rs. 15.0
Consumer preference	Less	More	More

Economic gains

- Increase the individual farmers income from Rs. 20,000.00 to >35,000.00
- The land equivalent ratio increased into doubled due to its shortest duration (70 days)
- B:C ratio increased from 1.27 (regular crop - ragi) to 3.46

Sl. No	Income	Crop				Total
		Beans	Maize	Turmeric	Tapioca	
1	15000-20000	-	8	-	-	8
2	20001-25000	4	4	7	-	15
3	25001-30000	9	-	12	-	21
4	30001-35000	32	-	21	5	58
5	>35000	21	-	-	2	23
	Total	66	12	40	7	125
	%	52.8	9.6	32	5.6	100

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
State Department:	
Commissionerate of Agriculture	Joint implementation of Restructured NWDpra (Participatory Integrated Watershed Programme)
Department of Agriculture, Erode	Implementation of ATMA programme in the District
Department of Sericulture, Erode	Technical support for pest management in Mulberry
District Rural Dev. Agency, Erode	Revolving fund assistance for Sanitation programme
Department of Animal Husbandry, Erode	Training support for conducting AH promotion
Department of Family Welfare, Erode	Conducting Camp and Campaigns on family welfare
Seed Certification department, Coimbatore	Support for getting organic certification for Bargur hilly area farmers
TNWDC, Erode	Training & Financial linkages
Directorate of marketing and Inspection	Training programme
ICDP, Erode	Training programme
National Boards:	
NABARD, Chennai	<ul style="list-style-type: none"> • Tribal development programme • MEDP Programme • REDP Programme
SPICE Board, Cochin	Implementation of Medicinal and Aromatic plant cultivation
Directorate of Arecanut & SPICES Development Board	Training and Demonstration
MANAGE, Hyderabad	Training programme
National Research Centre for Banana, Trichy	<ul style="list-style-type: none"> • Training and exposures programme • Demonstration programme
National Horticulture Research and Development Foundation, Dindigul	Training and Seminar
Universities and Research Institution:	
TNAU, Coimbatore	<ul style="list-style-type: none"> • Technical support • Training and exposure programme • Demonstration program
IIHR, Bangalore	<ul style="list-style-type: none"> • Training and exposure programme • Demonstration programme
Agriculture Research Station (TNAU) Bhavanisagar	<ul style="list-style-type: none"> • Training program • Demonstration program • Supply of seeds
VUTRC, Erode	<ul style="list-style-type: none"> • Training program • Demonstration program
Central Institute of Cotton Research, Coimbatore	<ul style="list-style-type: none"> • Training Program • Demonstration program
Wheat Research Station, Wellington	Demonstration on Wheat
Bannariamman Institute, Sathyamangalam	<ul style="list-style-type: none"> • Technical assistance for bio input production • Demonstration on sugarcane varieties
FRLHT, Bangalore	<ul style="list-style-type: none"> • Training and demonstration on herbal treatment for livestock
Financial Institutions:	
Nationalized banks and Sangamitra	Linkages to appropriate people institutions
ASETI, Coimbatore	Training programme
ITC, Kolkatta	Promotion of aromatic and medicinal plants

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.)
Tribal Development Programme	2010-11	NABARD, Chennai	44 lakhs
Capacity building programme	2010-11	DASD, Calicut	7.95Lakh
Village development programme	2010-11	NABARD, Erode	1.2Lakhs
MEDP& REDP-Trianiing programme	2010-11	NABARD, Erode	1.35 Lakh
Promotion of medicinal and aromatic plant cultivation	2010-11	ITC Kolkatta	42laks

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/ No : **YES**

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

KVK invited for participation in the District Level Committee meeting, but not involved in SREP preparation

Coordination activities between KVK and ATMA during 2010-11

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks
01	Meetings	-	12		
02	Research projects	-	-	-	-
03	Training programmes	-	2	2	
04	Demonstrations	-	2	2	
05	Extension Programmes	-	-	-	-
	Kisan Mela	-	1	1	-
	Technology Week	-	-	-	-
	Exposure visit	-	5	5	-
	Exhibition	-	-	-	-
	Soil health camps	-	-	-	-
	Animal Health Campaigns	-	-	-	-
	Farmers Field School	-	2	2	-
06	Publications	-	-	-	-
	Video Films	-	-	-	-
	Books	-	-	-	-
	Extension Literature	-	-	-	-
	Pamphlets	-	-	-	-
	Others (Pl. specify)	-	-	-	-
07	Other Activities (Pl. specify)	-	-	-	-
	Watershed approach	-	-	-	-
	Integrated Farm Development	-	-	-	-
	Agri-preneurs development	-	-	-	-

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

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
1.	Medicinal and Aromatic cultivation	Subsidy released for 20 farmers	Rs. 90000 received as subsidy component	-	-

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

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

12.F. Details of linkage with RKVY

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

12. G Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2010	-	-	-
May	-	-	-
June	-	-	-
July	-	-	-
August	-	-	-
September	-	-	-
October	-	-	-
November	-	-	-
December	-	-	-
January 2011	-	-	-
February	9	1173	9
March	45	9796	37

Note: Kendra initiated the Kisan mobile advisory services on February 2011.

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	
Nil									

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals	-	-	-	-	-	-	-	-	-
Pulses	-	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-	-
Fibers	-	-	-	-	-	-	-	-	-
Spices & Plantation crops									
Turmeric	15.06.2010	26.03.2011	0.4	Suroma – Orissa	Rhizome	5.0 t	49586.00	125000.00	-
Floriculture	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-
Banana	05.01.2010	02.02.2011	0.1	G9	Fruits	14 t	25624.00	31256.00	
Vegetables	-	-	-	-	-	-	-	-	-
Others: Fodder	10.02.2010	Multi cut	0.2	Co4	Setts	52750	2500.00	21100.00	-
Rosemary	03.06.2010	06.03.2011	2.0	Ooty-1	Dry leaf	1 t	100000.00	20000.00	

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	
1	Vermicompost	10000	25000.00	40000.00	10 farmers benefited
2	<i>Pseudomonas flourescens</i>	714	34986.00	57120.00	300 farmers are used the products during the reporting period
3	<i>Trichoderma viride</i>	633	31017.00	50640.00	284 farmers are used the products during the reporting period

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	
1.	Poultry	New Hampshire, white leghorn	Meat	50	1500.00	3500.00	10 farmers benefited
2.	Goat	Tellicherry	Meat	2	1000.00	4000.00	

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	-	-	-	-	-	-	-
With KVK	State Bank of India	Gobichettipalayam	0000839	Myrada KVK Gobi Ac/	11113983311	638002014	SBIN0000839
	State Bank of India	Gobichettipalayam	0000839	Myrada KVK Oilseeds & Pulses A/C	11113983424	638002014	SBIN0000839
	Canara Bank	Gobichettipalayam	1236	Myrada KVK Revolving Fund A/c	1236101031942	638015007	CNRB0001236
	Indian Bank	Gobichettipalayam	G009	Myrada KVK FLD Cotton A/c	503453325	638019006	IDIB000G009

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

S. No	Items / Head	Opening balance if any	Remittance by ZPD VIII Bangalore	Actual expenditure duitable to Council A/C	Closing balance if any	Remarks
1	Production Technology – 50 ha					
	a. Essential inputs	00	00	00	00	00
	b. POL, hiring vehicle, Kisan melas, printed materials, reports, demonstration boards	00	00	00	00	00
	Total	00	00	00	00	00
2.	Farm Implements – 75 ha					
	a. New equipments	00	00	00	00	00
	Contingencies	00	00	00	00	00
	Total	00	00	00	00	00

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

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	46,00,000.00	46,00,000.00	4480876.00
	Pay & Allowances(6TH CPC Arrears from 1.1.2006-31.3.2011	60,06,343.00	60,06,343.00	6006343.00
2	Traveling allowances	1,25,000.00	1,25,000.00	124632.00
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2,70,000.00	2,70,000.00	268582.00
B	POL, repair of vehicles, tractor and equipments	2,20,000.00	2,20,000.00	218426.00
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	60,000.00	60,000.00	57709.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	40,000.00	40,000.00	33410.00
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	195000.00	195000.00	179618.00
F	FLD on Special Pulses programme	20000.00	20000.00	20000.00
G	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	90000.00	90000.00	67584.00
H	Training of extension functionaries	25000.00	25000.00	400.00
I	Maintenance of buildings	25000.00	25000.00	24050.00
J	Extension Activities	25000.00	25000.00	24227.00
K	Farmers' Field School	25000.00	25000.00	500.00
L	Library	5000.00	5000.00	4034.00
TOTAL (A)		11731343.00	11731343.00	11508911.00
B. Non-Recurring Contingencies				
1	Equipments & Furniture			
	Furniture & Furnishing	200000.00	200000.00	197800.00
	EPABX System	50000.00	50000.00	26395.00
	Generator	100000.00	100000.00	279520.00
	Power Tiller	150000.00	150000.00	141590.00
	Maize Dehusker	40000.00	40000.00	44720.00
	Groundnut Pod Stripper	20000.00	20000.00	24700.00
	Sugarcane pit maker	30000.00	30000.00	6656.00
	Laser guided land leveler	500000.00	500000.00	360000.00
	Plant health diagnostic centre	1000000.00	1000000.00	999196.00
2	Works			
	Farmers Hostel	2340000.00	2340000.00	2330616.00
	Borewell	200000.00	200000.00	199303.00
3	Library (Purchase of assets like books & journals)	10000.00	10000.00	1500.00
TOTAL (B)		4640000.00	4611996.00	28004.00
C. REVOLVING FUND		00	00	00
GRAND TOTAL (A+B+C)		16371343.00	16371343.00	16120907.00

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2008 to March 2009	102651.00	68606.00	47255.00	124002.00
April 2009 to March 2010	124002.00	119403.00	201609.00	41769.00
April 2010 to March 2011	41769.00	282747.00	276055.00	48488.00

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
M.Siva	SMS (Home Science)	Strengthening gender perspective in agriculture, research and extension	TANUVAS	24-25.1.2011
M.Siva	SMS (Home Science)	Recent trend in post harvest management	IICPT, Tanjore	23-25.3.2011
P.Pachiappan	SMS (Horticulture)	Protected cultivation of horticulture crops	TNAU, Coimbatore	28-29.3.2011
S.Saravanakumar	SMS (Agronomy)	Weather based advisory services	TNAU, Coimbatore	30-31.3.2011
S.Saravanakumar	SMS (Agronomy)	Application of remote sensing and geographical information system for agricultural development	MANAGE, Hyderabad	19-23.07.2010
A.Tamilselvan	Programme Asst. (Computer)	Website development and database management	TNAU, Coimbatore	29 -31.3.2011
M.Thirumoorthy	Programme Asst (Farm Manager)	Orientation programme on Tribal development project	BAIF, Gujarat	24-26.2.2011
M.Alamelu	SMS (Animal Science)	Alternate poultry farming as a livelihood option for farming community	KVK, Namakkal	24-26.11.2010
D. John Prabakaran	Programme Asst (Agri.Engg)	Integrated farming system for sustainable farming	TANUVAS, Chennai	10-12.11.2010

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

Nil

SUMMARY FOR 2010-11

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management	-	-	-
	-	-	-
Varietal Evaluation	Banana	Assessing the performance of new variety – udayam	4
	French beans	Assessing the performance of new variety- Arka anoop	4
Integrated Pest Management	-	-	-
	-	-	-
Integrated Crop Management	Rosemary	Performance assessment of intercrops in Rosemary cultivation	4
	-	-	-
Integrated Disease Management	-	-	-
	-	-	-
Small Scale Income Generation Enterprises	-	-	-
	-	-	-
Weed Management	-	-	-
	-	-	-
Resource Conservation Technology	-	-	-
	-	-	-
Farm Machineries	Paddy	Performance and suitability of different weeder in SRI	2
	-	-	-
Integrated Farming System	-	-	-
	-	-	-
Seed / Plant production	-	-	-
	-	-	-
Value addition	-	-	-
	-	-	-
Drudgery Reduction	-	-	-
	-	-	-
Storage Technique	-	-	-
	-	-	-
Others (Pl. specify)	-	-	-
	-	-	-
Total			14

Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Disease Management	Poultry	Control of ranikhet diseases in desi chicks	5
Evaluation of Breeds	-	-	-
Feed and Fodder management	-	-	-
Nutrition Management	-	-	-
Production and Management	Dairy	Synchronization of estrus in dairy cows	5
Others (Pl. specify)	-	-	-
Total			10

II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops

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

Summary of technologies assessed under refinement of various livestock

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

III. FRONTLINE DEMONSTRATION

Cotton

Frontline demonstration on cotton

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

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals	Integrated nutrient management	Foliar application of maize maxim	12	12	5.0	47.6	42.7	11.36	Plant height - 204.6 cm Cob length - 27.2 cm Cob girth - 16.3 cm	Plant height - 191.8 cm Cob length - 24.1 cm Cob girth - 14.7 cm	20860	40426	19566	1.94	18910	36307	17397	1.92
Millets																		
Oilseeds																		
Pulses	Integrated crop management	Harnessing pulses productivity technology	10	10	4.0	8.36	7.14	17.09	Plant height - 31.3 cm Test weight - 4.7gram	Plant height - 25.4 cm Test weight - 4.4gram	12250	22572	10322	1.84	11125	19278	8153	1.73

Fisheries

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

Other enterprises

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

The demonstration will be initiated in the month of May 2011

Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom production	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
TOTAL	41	528	304	822	67	82	149	595	386	981

Farmers' Training including sponsored training programmes (Off campus)

Area of training	No. of	No. of Participants								
	Courses	General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	3	27	11	38	22		22	49	11	60
Resource Conservation Technologies	1	28		28			0	28	0	28
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming	1	22		22	8		8	30	0	30
Micro Irrigation/Irrigation				0			0	0	0	0
Seed production	1	20		20	7	1	8	27	1	28
Nursery management	2	14	12	26	5	2	7	19	14	33
Integrated Crop Management	4	55	15	70	20	11	31	75	26	101
Soil and Water Conservation	6	65	8	73	13	9	22	78	17	95
Integrated Nutrient Management	3	32		32	22		22	54	0	54
Production of organic inputs	2	29	5	34			0	29	5	34
Others:				0			0	0	0	0
Climate Change and its effect on human and crop development	2	58	62	120	20	22	42	78	84	162
Horticulture				0			0	0	0	0
a) Vegetable Crops				0			0	0	0	0
Production of low value and high volume crop				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
Organic farming practices	4	85	11	96	29	10	39	114	21	135
b) Fruits				0			0	0	0	0
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit	5	124		124	36		36	160	0	160
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
c) Ornamental Plants				0			0	0	0	0
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
d) Plantation crops				0			0	0	0	0

Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
e) Tuber crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
f) Spices				0			0	0	0	0
Production and Management technology	3	61	12	73	10	15	25	71	27	98
Processing and value addition				0			0	0	0	0
Others - Organic Farming	1	22	10	32			0	22	10	32
g) Medicinal and Aromatic Plants				0			0	0	0	0
Nursery management				0			0	0	0	0
Production and management technology	7	165	26	191	89	14	103	254	40	294
Post harvest technology and value addition	1	28	32	60	27	13	40	55	45	100
Others - Marketing management in Rosemary crop1	1	25	10	35			0	25	10	35
Soil Health and Fertility Management				0			0	0	0	0
Soil fertility management	2	25	16	41	13	19	32	38	35	73
Integrated water management				0			0	0	0	0
Integrated nutrient management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient use efficiency				0			0	0	0	0
Balanced use of fertilizers				0			0	0	0	0
Soil and water testing				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
Livestock Production and Management				0			0	0	0	0
Dairy Management	4	31	21	52	26	11	37	57	32	89
Poultry Management	1	16	14	30			0	16	14	30
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management	6	55	86	141	22	52	74	77	138	215
Animal Disease Management	4	28	26	54	12	25	37	40	51	91
Feed and Fodder technology	6	72	68	140	9		9	81	68	149
Production of quality animal products				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
Integrated Farm Development	2	21	16	37			0	21	16	37
Effective utilization of animal resources	1	7	9	16			0	7	9	16
Advantages of upgradation of local goat	1	12	9	21			0	12	9	21
Home Science/Women empowerment				0			0	0	0	0
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Processing and cooking				0			0	0	0	0

Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	7	20	12	32		52	52	20	64	84
Women empowerment				0			0	0	0	0
Location specific drudgery production	2	4	29	33			0	4	29	33
Rural Crafts				0			0	0	0	0
Women and child care	3	4	52	56		12	12	4	64	68
Others (pl.specify)				0			0	0	0	0
Agril. Engineering				0			0	0	0	0
Farm machinery and its maintenance	6	85	22	107	60		60	145	22	167
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Others - Solar power fencing	3	42	7	49			0	42	7	49
Plant Protection				0			0	0	0	0
Integrated Pest Management	4	86	18	104	20	4	24	106	22	128
Integrated Disease Management	2	55	10	65	5		5	60	10	70
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides	1	11	2	13			0	11	2	13
Others (pl.specify)				0			0	0	0	0
Fisheries				0			0	0	0	0
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
Production of Inputs at site				0			0	0	0	0
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0

Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
Capacity Building and Group Dynamics				0			0	0	0	0
Leadership development				0			0	0	0	0
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
Others (pl.specify)				0			0	0	0	0
Agro-forestry				0			0	0	0	0
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Others (Pl. specify)				0			0	0	0	0
TOTAL	102	1434	631	2065	475	272	747	1909	903	2812

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs	4	68	15	83				68	15	83
Planting material production										
Vermi-culture										
Mushroom Production	1		15	15					15	15
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other – Organic farming practices	1	15	5	20				15	5	20
TOTAL	6	83	35	118				83	35	118

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Mushroom Production	2		24	24					24	24
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Any other (pl.specify)	1	30		30	-	-	-	30	-	30
Banana micro nutrient mixture preparation										
TOTAL	3	30	24	54	-	-	-	30	24	54

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	3	22	8	56	-	-	-	48	8	56
Integrated Pest Management	1	16	6	22	-	-	-	16	6	22
Integrated Nutrient management	1	16	2	18	-	-	-	16	2	18
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	1	30		30				30		30
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	2	18	8	26	6	4	10	24	12	36
Livestock feed and fodder production	1	13	2	15	-	-	-	13	2	15
Household food security	-	-	-	-	-	-	-	-	-	-
Any other – Contract Farming	1	25	10	35	-	-	-	25	10	35
Total	10	140	36	202	32	4	10	172	40	212

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Any other – Banana micro nutrient mixture and its application	1	30		30	-	-	-	30		30
Integrated farm Development	1	14	7	21	-	-	-	14	7	21
Medicinal Aromatic plant	1	45	5	50	-	-	-	45	5	50
Total	3	89	12	101	-	-	-	89	12	101

Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management	-	-	-	-	-	-	-	-	-	-
1.a.	Increasing production and productivity of crops	2	44	2	46	-	-	-	44	2	46
1.b.	Commercial production of vegetables	1	26	7	33	-	-	-	26	7	33
2	Production and value addition	-	-	-	-	-	-	-	-	-	-
2.a.	Fruit Plants	3	-	45	45	-	-	-	-	45	45
2.b.	Ornamental plants	-	-	-	-	-	-	-	-	-	-
2.c.	Spices crops	13	597	87	684	21	12	33	618	99	717
3.	Soil health and fertility management	4	97	58	155	-	-	-	97	58	155
4	Production of Inputs at site	6	65	88	153	-	-	-	65	88	153
5	Methods of protective cultivation	1	16	2	18	-	-	-	16	2	18
6	Others (precision farming)	1	25	7	32	-	-	-	25	7	32
7	Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
7.a.	Processing and value addition	9	184	86	270	95	21	116	279	107	386
7.b.	Others	-	-	-	-	-	-	-	-	-	-
8	Farm machinery	-	-	-	-	-	-	-	-	-	-
8.a.	Farm machinery, tools and implements	3	74	6	80	-	-	-	74	6	80
8.b.	Others	-	-	-	-	-	-	-	-	-	-
9.	Livestock and fisheries	-	-	-	-	-	-	-	-	-	-
10	Livestock production and management	-	-	-	-	-	-	-	-	-	-
10.a.	Animal Nutrition Management	2	35	14	49	-	-	-	35	14	49
10.b.	Animal Disease Management	3	28	17	45	11	5	16	39	22	61
10.c.	Fisheries Nutrition	-	-	-	-	-	-	-	-	-	-
10.d.	Fisheries Management	-	-	-	-	-	-	-	-	-	-
10.e.	Others (Concentrate feed and mineral mineral mixture)	1	-	25	25	-	-	-	-	25	25
11.	Home Science	-	-	-	-	-	-	-	-	-	-
11.a.	Household nutritional security	-	-	-	-	-	-	-	-	-	-
11.b.	Economic empowerment of women	3	4	68	72	-	-	-	4	68	72
11.c.	Drudgery reduction of women	-	-	-	-	-	-	-	-	-	-
11.d.	Others	-	-	-	-	-	-	-	-	-	-
12	Agricultural Extension	-	-	-	-	-	-	-	-	-	-
12.a.	Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
12.b.	Others (crop diversification)	1	42	37	79	-	-	-	42	37	79
	Climate change and farm development	2	78	84	162	-	-	-	78	84	162
	Experience of Kendra activities	1	13	16	29	-	-	-	13	16	29
	Integrated farm development	3	54	9	63	-	-	-	54	9	63
	Total	59	1382	658	2040	127	38	165	1509	696	2205

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management	-	-	-	-	-	-	-	-	-	-
1.a.	Commercial floriculture	-	-	-	-	-	-	-	-	-	-
1.b.	Commercial fruit production	-	-	-	-	-	-	-	-	-	-
1.c.	Commercial vegetable production	-	-	-	-	-	-	-	-	-	-
1.d.	Integrated crop management	-	-	-	-	-	-	-	-	-	-
1.e.	Organic farming	-	-	-	-	-	-	-	-	-	-
1.f.	Others	-	-	-	-	-	-	-	-	-	-
2	Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
2.a.	Value addition	-	-	-	-	-	-	-	-	-	-
2.b.	Others	-	-	-	-	-	-	-	-	-	-
3.	Livestock and fisheries	-	-	-	-	-	-	-	-	-	-
3.a.	Dairy farming	-	-	-	-	-	-	-	-	-	-
3.b.	Composite fish culture	-	-	-	-	-	-	-	-	-	-
3.c.	Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
3.d.	Piggery	-	-	-	-	-	-	-	-	-	-
3.e.	Poultry farming	-	-	-	-	-	-	-	-	-	-
3.f.	Others : Artificial Insemination and its technique	1	9	1	10	-	-	-	9	1	10
4.	Income generation activities	-	-	-	-	-	-	-	-	-	-
4.a.	Vermi-composting	-	-	-	-	-	-	-	-	-	-
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.	-	-	-	-	-	-	-	-	-	-
4.c.	Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
4.d.	Rural Crafts	-	-	-	-	-	-	-	-	-	-
4.e.	Seed production	-	-	-	-	-	-	-	-	-	-
4.f.	Sericulture	-	-	-	-	-	-	-	-	-	-
4.g.	Mushroom cultivation	1	1	17	18	-	-	-	1	17	18
4.h.	Nursery, grafting etc.	-	-	-	-	-	-	-	-	-	-
4.i.	Tailoring, stitching, embroidery, dying etc.	-	-	-	-	-	-	-	-	-	-
4.j.	Agril. para-workers, para-vet training	-	-	-	-	-	-	-	-	-	-
4.k.	Others	-	-	-	-	-	-	-	-	-	-
5	Agricultural Extension	-	-	-	-	-	-	-	-	-	-
5.a.	Capacity building and group dynamics	-	-	-	-	-	-	-	-	-	-
5.b.	Others	-	-	-	-	-	-	-	-	-	-
	Grand Total	2	10	18	28	-	-	-	10	18	28

V. Extension 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	9	117	68	185	4	12	16	5	-	5
Kisan Mela	-	-	-	-	-	-	-	-	-	-
Kisan Ghosthi	-	-	-	-	-	-	-	-	-	-
Exhibition	7	6122	1941	8063	293	178	461	34	11	45
Film Show	13	640	129	769	11	2	13	8	-	8
Method Demonstrations	-	-	-	-	-	-	-	-	-	-
Farmers Seminar	3	328	55	383	37	20	57	21	7	28
Workshop	2	52	14	66	2	1	3	-	-	-
Group meetings	4	60	27	87	-	-	-	-	-	-
Lectures delivered as resource persons	9	412	719	1131	-	-	-	40	12	52
Newspaper coverage	11	-	-	-	-	-	-	-	-	-
Radio talks	2	-	-	-	-	-	-	-	-	-
TV talks	-	-	-	-	-	-	-	-	-	-
Popular articles	2	-	-	-	-	-	-	-	-	-
Extension Literature	6	-	-	-	-	-	-	-	-	-
Advisory Services	67	53	14	67	-	-	-	-	-	-
Scientific visit to farmers field	231	199	32	231	-	-	-	-	-	-
Farmers visit to KVK	216	239	80	319	2	2	4	-	-	-
Diagnostic visits	127	133	55	188	28	14	42	-	-	-
Exposure visits	5	95	3	95	-	-	-	25	-	25
Ex-trainees Sammelan	4	36	4	40	-	-	-	-	-	-
Soil health Camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	4	1321	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	1	86	11	97	-	-	-	-	-	-
Farm Science Club Conveners meet	3	18	7	25	9	-	9	27	7	34
Self Help Group Conveners meetings	81	912	331	1251	-	-	-	13	2	15
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days	-	-	-	-	-	-	-	-	-	-
Any Other (Specify)	-	-	-	-	-	-	-	-	-	-
Total	804	10203	3488	12985	386	229	605	173	39	212

Details of other extension programmes

Particulars	Number
Electronic Media	13 (Film shows)
Extension Literature	5 (4000 copies)
News Letter	4 (6000 copies)
News paper coverage	11
Technical Articles	2 (3000 copies)
Technical Bulletins	-
Technical Reports	4 (2015 copies)
Radio Talks	2
TV Talks	-
Animal health amps (Number of animals treated)	3 (711 animals)
Others (pl.specify)	
Total	31

VI. PRODUCTION OF SEED/PLANTING MATERIAL**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)	Paddy	ASD-16	-	30	72000.00	120
	Ragi	GPU-28	-	30	36000.00	300
Oilseeds						
Pulses	Blackgram	VBN-3	-	8	60000.00	80
Commercial crops	-	-	-	-	-	-
Vegetables	French beans	Arka komal	-	50	400000.00	250
Flower crops	-	-	-	-	-	-
Spices	Turmeric	BSR-2	-	30	105000.00	3
Fodder crop seeds	-	-	-	-	-	-
Fiber crops	-	-	-	-	-	-
Forest Species	-	-	-	-	-	-
Others (specify)	-	-	-	-	-	-
Total	-	-	-	148	673000.00	753

Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Commercial						
Vegetable seedlings	Tomato	-	Lakshmi 5005	75000	37500.00	7
	Brinjal	Local	-	100000	50000.00	10
	Chillies	-	Wonder hot	125000	62500.00	13
Fruits	-	-	-	-	-	-
Ornamental plants	-	-	-	-	-	-
Medicinal and Aromatic	Rosemary	Ooty-1	-	1150000	2300000.00	150
Plantation	Coconut	Tall	-	250	6250.00	25
Spices	-	-	-	-	-	-
Tuber	-	-	-	-	-	-
Fodder crop saplings	Cumbu napier	CO-4	-	52750	21100.00	70
Forest Species	Melia dubia	Local	-	9000	90000.00	18
Others(specify)	-	-	-	-	-	-
Total	-	-	-	1512000	2567350.00	293

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Fertilizers	Vermicompost	10000	40000.00	10
Bio-pesticide	-	-	-	-
Bio-fungicide	<i>Trichoderma viride</i>	633	107760.00	584
	<i>Pseudomonas fluorescens</i>	714		
Bio Agents	-	-	-	-
Others	-	-	-	-
Total		11347	147760.00	594

Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows	-	-	-	-
Buffaloes	-	-	-	-
Calves	-	-	-	-
Others – goat	Tellicherry	25	100000.00	22
Poultry				
Broilers	-	-	-	-
Layers	-	-	-	-
Duals (broiler and layer)	-	-	-	-
Japanese Quail	-	-	-	-
Turkey	-	-	-	-
Emu	-	-	-	-
Ducks	-	-	-	-
Others	-	-	-	-
Piggery				
Piglet	-	-	-	-
Others	-	-	-	-

Fisheries	-	-	-	-
Fingerlings	-	-	-	-
Others	-	-	-	-
Total				

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

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	122	132	117	4620.00
Water	119	138	127	6040.00
Plant	-	-	-	-
Manure	-	-	-	-
Total	241	270	244	10,660.00

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted

1 SAC meeting was conducted during the reporting period.

IX. NEWSLETTER

Number of issues of newsletter published

4 Issues published – Total 6000 copies circulated to farming community and extension personnel

X. RESEARCH PAPER PUBLISHED

Number of research paper published

Nil

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

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

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