

PROFORMA FOR PREPARATION OF ANNUAL REPORT (April-2017 to March-2018)

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	53	1124	344	1465
Rural youths	7	15	17	32
Extension functionaries	3	20	12	40
Sponsored Training	7	61	60	121
Vocational Training	-	-	-	-
Total	70	1220	433	1658

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	225	90	
Pulses	125	50	
Cereals	10	4	
Vegetables	10	4	
Other crops	110	37	
Total	480	185	
Livestock & Fisheries	10	-	1
Other enterprises	20	-	20
Total	30	185	21
Grand Total	510	185	21

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	6	30	30
Livestock	1	5	5
Various enterprises	1	5	5
Total	8	40	40
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total			

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	678	7718
Other extension activities	122	1450
Total	800	9168

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
Theni	Text only	13	-	1	1	-	4	19
	Voice only							
	Voice & Text both							
	Total Messages	13	-	1	1	-	4	19
	Total farmers Benefitted	390	-	30	30	-	120	570

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	9.5	43700
Planting material (No.)	27200	31100
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	685	6000
Water	110	5500
Plant	-	-
Total	795	11500

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	1
2	Conferences	-
3	Meetings	2
4	Trainings for KVK officials	3
5	Visits of KVK officials	2
6	Book published	-
7	Training Manual	52
8	Book chapters	-
9	Research papers	-
10	Lead papers	-
11	Seminar papers	-
12	Extension folder	-
13	Proceedings	-
14	Award & recognition	1
15	Ongoing research projects	2

DETAIL REPORT OF APR-2017-18

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
ICAR KRISHI VIGYAN KENDRA, THENI 89-A/B-3, West Street, Kamatchipuram (S.O),Theni District, Tamilnadu-625 520.	04546-247564	04546-247564	cendectkvk@rediffmail.com cendect@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
CENTRE FOR DEVELOPMENT AND COMMUNICATION TRUST (CENDECT) 89-A/B-3, West Street,Kamatchipuram (S.O),Theni District, Tamilnadu-625 520.	04546-247564	04546-247564	cendectkvk@rediffmail.com cendect@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email

1.4. Year of sanction: 1994

1.5. Staff Position (as on 30th March, 2017)

Sl. No.	Sanctioned post	Name of the incumbent	Design-ation	Discip-line	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temp-orary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Vacant	--	--	--	--	--	-	-
2	Subject Matter Specialist	Mr.K.Ragu	SMS (Horticulture)	Horticulture	15,400-39,100 GP:5400	15,400-39,100 GP:5400	27/1/2017	Permanent	OBC
3	Subject Matter Specialist	Mr.P.Maheswaran	SMS (Agronomy)	Agronomy	15,400-39,100 GP:5400	15,400-39,100 GP:5400	27/1/2017	Permanent	OBC
4	Subject Matter Specialist	Vacant	SMS (Plant Protection)	--	--	--	--	--	-
5	Subject Matter Specialist	Mrs.M.Ramya Siva Selvi	SMS (Home Science)	Home Science	15,400-39,100 GP:5400	15,400-39,100 GP:5400	25/1/2017	Permanent	OBC
6	Subject Matter Specialist	Vacant	SMS (Animal Science)	--	--	--	--	--	-
7	Subject Matter Specialist	Vacant	SMS (Soil Science)	--	--	--	--	--	-
8	Programme Assistant	Mr. Raja	Farm Manager	Horticulture	9,300-34,800 GP:4200	9,300-34,800 GP:4200	9/14/2000	Permanent	OBC
9	Computer Programmer	Vacant	Programme Assistant (Computer)	--	--	--	--	--	-
10	Farm Manager	Vacant	Programme Assistant (Lab Technician)	--	--	--	--	--	-

11	Accountant / Superintendent	Mr.R.Pachaikannan	Accountant/ Superintendent	--	9300-34,800-GP:4200	9300-34,800-GP:4200	3/1/1995	Permanent	OBC
12	Stenographer	Mrs.S.Murugeswari	Stenographer	--	5,200-20,200 GP:2400	5,200-20,200 GP:2400	1/9/2008	Permanent	OBC
13	Driver	Mr.M.Patchaikannan	Driver	--	5,200-20,200 GP:1900	5,200-20,200 GP:1900	1/1/2010	Permanent	OBC
14	Driver	Mr.A.ArockiyaJohnson	Driver	--	5,200-20,200 GP:1900	5,200-20,200 GP:1900	11/1/2017	Permanent	OBC
15	Supporting staff	Mr.S. Murugan	Supporting staff	--	4,400-7,440 GP:1300	4,400-7,440 GP:1300	2/1/1997	Permanent	OBC
16	Supporting staff	Mr.G.Selvalakshmi	Supporting staff	--	4,400-7,440 GP:1300	4,400-7,440 GP:1300	11/1/2017	Permanent	OBC

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	0.11 ha
2.	Under Demonstration Units	0.03 ha
3.	Under Crops	9.65 ha
4.	Orchard/Agro-forestry	1.00 ha
5.	Others	10.79 ha

1.7. Infrastructural Development:

A) Buildings

Infrastruct ure Type	Infrastructu re Name	Infrastruc ture status	Source of Fundin g	Sanction ed Amount (Rs)	Sanct ioned Plint h Area (Sq. mt.)	Year of Sanction	Actual Plinth Area Compl eted (Sq. mt)	Actual expen diture incurr ed (Rs)	Date of Completi on	Unspen t Balanc e (Rs)
Administrat ive Building	Administrativ e building	Completed	ICAR	2135800	483.5	02/08/1995	483.5	2756902	3/30/1996	0
Farmers Hostel	Farmers hostel	Completed	ICAR	1749596	312.0	03/02/1995	312.0	1749596	12/25/2002	0
Staff Quarters	Staff quarters	Completed	ICAR	2930577	260.0	05/09/1995	260.0	2930577	2/11/1997	0
Others	Open well	Completed	ICAR	300000	0	03/30/2001	0	481380	3/20/1999	0
Others	Fencing	Completed	ICAR	100000	0	06/19/1995	0	111500	3/21/1996	0
Others	Sericulture unit	Completed	ICAR	400000	160	02/21/2012	160	417000	3/31/2012	0
Others	Irrigation system	Completed	ICAR	300000	0	02/21/2012	0	308800	3/31/2012	0
Others	Demonstratio n units- Dairy	Completed	ICAR	100000	0	06/19/1995	0	102000	3/30/1996	0

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Scooter M80	1995	20,727	211000	Need replacement
Honda Activa	2009	50,800	3214	Good
Bolero	2010	6,06,153	512	Good
Tractor	2010	5,16,000	40523	Good
Mini Tractor	2012	1,85,015	95470	Good

C) Equipments & AV aids

Name of the equipment	Cost (Rs.)	Year of purchase	Present status
Over head projector	11160	1/6/1995	Good Condition
Electronic typewriter	21035	1/6/1995	Scrapped
Mixie	2175	1/14/1996	Scrapped
Onida color tv	18600	2/28/1996	Good Condition
English t/w machine	9852	2/29/1996	Scrapped
Tape recorder	3925	10/25/1995	Scrapped
Weighing scale	2643	3/29/1996	Scrapped
Amplifier & mike unit	4600	5/27/1996	Good Condition
Duplicating machine	17500	10/10/1995	Scrapped
Vcr	14990	2/28/1996	Scrapped
Slide projector	12855	2/28/1996	Scrapped
Lcd projector	69750	3/7/2007	Good Condition
Fax machine	15150	3/30/2009	Good Condition
Xerox machine	75400	3/1/2010	Good Condition
Digital camera	25000	6/30/2010	Good Condition
Generator	100000	11/24/2010	Good Condition
Epabx system	50220	3/30/2011	Good Condition
Steel table	1500	11/4/1994	Good Condition
Mica table	800	11/4/1994	Good Condition
Godrej table	13340	1/23/1995	Good Condition
Wooden table	2250	1/23/1995	Good Condition
Steel table	11785	12/15/1995	Good Condition
Mould chair	2896	1/13/1995	Good Condition
Plastic chair	5508	1/22/1995	Good Condition
S type chair	600	11/4/1994	Good Condition
S type chair	1500	3/10/1995	Good Condition
Pvc chair	23240	3/1/1998	Good Condition
File cabinet	7980	10/13/1995	Good Condition
White mark writing board	8875	12/12/1995	Good Condition
Water tanker	25000	2/26/1996	Scrapped
Disc plough	24853	2/26/1996	Good Condition
Tiller	13408	2/26/1996	Good Condition
Mould board plough	16379	2/26/1996	Good Condition
Cupboard	11140	2/28/1995	Good Condition
Executive chair	12290	3/22/1996	Good Condition
Cupboard	11500	3/7/2010	Good Condition
Nilkamal chair	20000	3/7/2010	Good Condition
Revoling chair	6500	3/7/2010	Good Condition
3 x 2 cash table	4400	3/7/2010	Good Condition
4 x 2 cash table	2600	3/7/2010	Good Condition
Computer table	2400	3/7/2010	Good Condition
Wall fan	3800	3/7/2010	Good Condition
Water punel	2000	3/7/2010	Scrapped
Water punel	4000	3/15/2010	Scrapped
Kusan	5000	3/7/2010	Good Condition
Reception chair	4500	3/7/2010	Good Condition
Steel cot	51000	3/8/2010	Good Condition

Speaker	2640	3/8/2010	Good Condition
Filling cabinet	14400	3/9/2010	Good Condition
Premium wall coffer	5300	3/9/2010	Good Condition
Digital camera	25000	6/30/2010	Good Condition
Power tiller	152250	3/30/2011	Good Condition
ICD recorder and DVD player	8280	3/15/2010	Good Condition
USB Modem	2008	3/15/2010	Good Condition
Camera	6990	3/20/2010	Good Condition
Display system	17085	3/24/2010	Good Condition
Hp printer	2400	3/5/2010	Good Condition
Round table	25837	3/31/2010	Good Condition

1.8. A). Details SAC meeting* conducted in the year 2018

Sl.No.	Date	No of Participants	Salient Recommendations
1.	30.03.2018	35	10
2.			

* Attach a copy of SAC proceedings along with list of participants

2. DETAILS OF DISTRICT (2016-17)

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

Farming Situation	Farming System
The total geographical area of the district is 288923Ha. Forest occupies 35.9% of total area. Net area cultivated occupies 40.7%.	Food crops occupy 38.9% of total gross area cultivated. About 8.4% of area comes under coconut, which is steadily increasing year by year. Horticultural crops occupy 25.1% of area due to favorable agro climatic condition and assured market. Oilseeds, Cotton and Sugarcane occupy 10.7%, 5.9% and 9.8% respectively.

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

Agro-climatic Zone	Characteristics
Southern Zone. Based on the rainfall distribution, irrigation pattern, soil characteristics, cropping pattern and physical, ecological and social characteristics, 90% of Theni district fit into Southern Zone and the area adjoining to Western ghats fit into Western Zone accounting for 10% of area.	Average Annual rainfall 857 mm, Annual potential evapo transpiration -1825

Agro ecological situation	Characteristics
South western portion of VIII Agro ecological Zone of India Tamil Nadu uplands hot semi arid eco region	Eastern Ghats: A north south range of hills part of Western Ghats marks west boundary with Kerala. Palani hills from Northern: Palani hills form northern spur and high wave mountain andipatty and varusanadu forms southern spur. The rest is undulating plain, cumbum valley is noted for thick vegetation. Altitude ranges from 200 to 400 m in the plains. Altitude ranges as high as 2400 m in the hills.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Red calcareous	Yellowish red to dark red, Medium texture, Neutral to mild alkaline, well drained and moderate permeability	13259
2.	Red non calcareous	Moderate deep red to yellowish medium textured ,slightly acidic to neutral well drained with rapid permeability	23670
3.	Red lateritic calcareous	Dark reddish brown to brown heavy textured slightly acidic to neutral, well drained with moderate permeability	24644
4.	Red lateritic non calcareous	Yellowish red to very deep heavy textured neutral to mild alkaline moderate permeability, moderately drained	41667
5.	Black soil	Dark grey to very dark grey fine textured mild to moderate alkaline slow permeability poorly dried	2727

6	Mixed soil	Dark yellowish grey to dark grey fine textured to moderate, neutral to mild alkaline well drained good permeability	23526
7	Sand dunes	Yellowish red, single grain, loose, very friable, well drained with good permeability.	10900
8.	Hilly soils	Dark yellowish gray to very dark gray, heavy textured, acidic, well drained with good permeability.	147471

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

Crop	Area (ha)	Production	Production Unit	Productivity	Productivity Unit
Rice	12259	64970	Metric tons	5300	kg /ha
Sorghum	14200	2200000	Metric tons	1548	kg /ha
Cumbu	5300	800000	Metric tons	1501	kg /ha
Ragi	100	10000	Metric tons	1664	kg /ha
Maize	6200	1240000	Metric tons	2005	kg /ha
Redgram	3000	330000	Metric tons	1095	kg /ha
Blackgram	200	10000	Metric tons	367	kg /ha
Greengram	200	10000	Metric tons	399	kg /ha
Other pulses	5100	90000	Metric tons	173	kg /ha
Groundnut	2600	620000	Metric tons	2389	kg /ha
Sunflower	200	20000	Metric tons	947	kg /ha
Castor	100	183	Metric tons	183	kg /ha
Gingelly	400	10000	Metric tons	346	kg /ha
Coconut	15000	2314.88	lakh nuts	15533	Nuts
Sugarcane	5900	72300	Tons	117	q /ha
Mango	8582	600740	Metric tons	70	q /ha
Banana	3328	2346240	Metric tons	700	q /ha
Grapes	1937	439700	Metric tons	227	kg /ha
Tomato	2394	229820	Metric tons	96	q/ha
Bhendi	137	11650	Metric tons	85	q /ha
Onion	478	46840	Metric tons	98	q /ha
Cashew	5520	27600	Metric tons	5	kg /tree

2.5. Weather data

Month	Rainfall (cm)	Temp(Max)	Temp(Min)	Relative Humidity (%)
April 17	8.5	32.8	22.93	54.71
May 17	0.9	40.0	29.3	61.5
June 17	1.3	35.3	27.1	68.1
July 17	0.6	33.6	26.6	66.5
August 17	0.6	35.3	25.6	64.3
September 17	1.5	36.4	25.5	64.3
October 17	2.2	34.9	23.9	76.3
November 17	1.3	34.7	20.8	70.0
December 17	2.3	36.3	21.0	63.1
January 18	0.3	40.2	21.0	56.2
February 18	0.4	32.8	22.93	54.71
March 18	0.2	38.42	23.04	61.03

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

Category	Population	Population Unit	Production	Production Unit	Productivity	Productivity Unit
Cattle - Crossbred	74277	No	133698600	no	10	lt
Cattle - Indigenous	28663	No	20637360	No	4	lt
Buffalo	39650	No	42822000	No	6	lt
Sheep - Crossbred	33515	Nos	837875	Nos	25	kg

Sheep – Indigenous	18732	Nos	374640	Nos	20	kg
Goats	83454	Nos	2086350	Nos	25	kg
Pig – Crossbred	9050	Nos	452500	Nos	0	0
Pig – Indigenous	12524	Nos	438340	Nos	0	0
Rabbits	1070	Nos	5350	Nos	0	0
Poultry – Hens	244337	Nos	366506	Nos	1.5	kg
Poultry – Desi	44293	Nos	88586	Nos	2	kg
Poultry -Improved	44293	Nos	221618	Nos	1.5	kg
Ducks	974	Nos	2435	Nos	2.5	kg
Turkey and others	992	Nos	7936	Nos	8	kg
Fish – Inland	20	Nos	10795	Nos	540	kg

2.7 Details of Adopted Villages (2017-18)

Year of adoption: 2017-2018

Sl.No.	Taluk/ mandal	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Theni	Theni	Veerapandi	Paddy	Low market price (Rs.13/kg) for Goraknth 509 during kharif season and low yield 5.5 t/ha due to lack of knowledge about production of high market price variety.	ICM in Paddy, Variety evaluation
2	Theni	Theni	Uppukottai	Paddy	Salinity problem - Severe water logging and algal growth. Poor tillering, White leaf blotches, Patchy growth, Leaf scorching, Stunted growth, Leaf browning and drying, Sterility.	Varietal evaluation
3	Theni	Theni	Kuppinayakkanpatti	Maize	Cultivation of Hishell hybrid with yield of 60 q/ha	Varietal introduction
4	Theni	Theni	Balakrishnapuram	Bhendi	Non availability of improved hybrid and low yield (130 q/ha) in cultivation of Mahyco-10 hybrid	Training, Extension Activities
5	Theni	Theni	Govindhanagaram	Onion	Low yield (13q/ha) due to non availability of high yielding variety	Training, Extension Activities
6	Theni	Chinnamanur	Sukknagalpatti	Redgram	Cultivation of old variety Very long duration (270 days), Pod borer complex 27% incidence, terminal drought during pod development stage and non availability of improved shorter duration variety, Yield loss (20 %) Bruchids attack in stored pulses	OFT, Training, Extension activity
7	Theni	Chinnamanur	Odaipatti	Grapes	Lack of awareness of wine variety	Training, Extension Activities
8	Theni	Chinnamanur	Odaipatti	Grapes	Yield loss due (15%) to fruit cracking during rain	Training, Extension Activities
9	Theni	Chinnamanur	Kamatchipuram		Yield loss (30 %) due to panama wilt disease in banana	FLD, Training, Extension Activities

10	Theni	Chinnamanur	Kamatchipuram	Banana	Yield loss (20 %) due to improper nutrient management and Micronutrient deficiency	FLD, Training, Extension Activities
11	Theni	Chinnamanur	Seepalakottai	Banana	Non utilization of lands in wider spacing crops	Training, Extension Activities
12	Theni	Chinnamanur	Ellaipatti	French beans	Low yield (115 q/ha) due to cultivation of Arka komal selection	FLD, Training, Extension Activities
13 14	Theni	Chinnamanur	Seepalakottai	Tomato	Non availability of improved hybrid, Yield loss due to improper crop management, improper micronutrient deficiency during terminal phase .	FFS, Training, Extension Activities
15	Theni	Chinnamanur	Kamatchipuram	Tamarind	Deseeding is tedious, consumes more time and hand Pain	FLD, Training, Extension Activities
16	Theni	Chinnamanur	S.Alagapuri	Green gram	Low yield (3q/ha) due to cultivation of CO 6 green gram variety with improper nutrient management practices	Cluster FLD, Training, Extension Activities
17	Theni	Chinnamanur	Seepalakottai	Organic farming	Lack of knowledge about organic farming and lack of knowledge about organic input	Training, Extension Activities
18	Theni	Chinnamanur	Pottipuram	Paddy	Under utilization of traditional rice varieties and Therapeutic properties of traditional rice varieties not known	OFT, Training, Extension Activities
19	Theni	Chinnamanur	Odaipatti	Brinjal	Lack of knowledge about grafted Brinjal	Training, Extension Activities
20	Theni	Uthamapalayam	K.Sindhalaichery	Guava	Yield (25 %) due to Micro nutrient deficiency, on pruning, uncared orchard, Poor quality fruits, non adoption of ICM practices	FLD, Training, Extension Activities
21	Theni	Chinnamanur	T.Sindhalaichery	Gingelly	Poor yield 3q/ha due to non availability of high yielding variety, poor nutrient management practices.	Cluster FLD, Training, Extension Activities
22	Theni	Chinnamanur	T.Sindhalaichery	Samai	Non availability of improved variety and low yield (4q /ha) in cultivation of local variety	FLD, Training, Extension Activities
23	Theni	Uthamapalayam	T.Mettupatti	Gingelly	Low yield (3.5q/ha) due to cultivation of low yield varieties and improper nutrient management	Cluster FLD, Training, Extension Activities
24	Theni	Periyakulam	Vadugapatty	Sugarcane	Low yield (120 t/ha) due to non availability of drought tolerant variety	OFT, Training, Extension Activities

25	Theni	Periyakulam	Lakshmipuram	Mulberry	Non availability of improved variety, Low yield (14t/ha) due to improper application of Nutrients and Macronutrient deficiency	FLD, Training, Extension Activities
26	Theni	Bodinayakkanur	Rasingapuram	Groundnut	Non availability of improved varieties of groundnut and lack of knowledge about Integrated Crop Management.	Cluster FLD, Training, Extension Activities
27	Theni	Bodinayakkanur	Dombucherry	Sunflower	Low yield (1200 kg/ha) due to non availability of improved hybrid.	Cluster FLD, Training, Extension Activities
28/	Theni	Cumbum	Karunakkamuthampatti	Paddy	Low yield (60 q/ha) due to blast, weed incidence , yellow stem borer and leaf folder , Brown Plant Hopper, False smut and incidence	FLD, Training, Extension Activities
29	Theni	Cumbum	Karunakkamuthampatti	Filed lab lab	Yield loss (30 %) Incidence of Yellow Mosaic Virus.	Training, Extension Activities
30	Theni	Cumbum	Haunumanthanpatti	Banana	Yield loss (20%) due to non adoption of drought and stress mitigation technologies	FLD, Training, Extension Activities
31	Theni	Cumbum	Karunakkamuthampatti	Black gram	Low yield (4q/ha) due to yellow mosaic virus incidence and improper nutrient management practices	Cluster FLD, Training, Extension Activities
32	Theni	Andipatty	Kanniyapillaipatti	Ragi	Non availability of improved variety and low yield (1100 Kg/ha) in cultivation of sunda ragi with blast incidence and terminal drought during grain filling stage	OFT, Training, Extension Activities
33	Theni	Andipatty	Mullayampatti	Cumbu	Cultivation of ICMV 221 with yield of 12 q/ha	FLD, Training, Extension Activities
34	Theni	Andipatty	Kanniyapillaipatti	Cotton	Low yield (13 q/ha), Incidence of stem weevil and root rot disease, Non cultivation of improved varieties, Mg deficiency	FLD, Training, Extension Activities
35	Theni	Andipatty	Pichampatti	Sorghum	Low yield (15.62 q/ ha) due to lack of awareness about Integrated Crop management technologies	FLD, Training, Extension Activities
36	Theni	Andipatty	Mullayampatti	Black gram	Low yield (400 kg /ha) due to non availability of high yielding variety and Yellow Mosaic Incidence.	Cluster FLD, Training, Extension Activities
37	Theni	Andipatty	Okkaraipatti	Green gram	Low yield (400 kg /ha) due to non availability of high yielding variety and incidence of yellow mosaic virus	Cluster FLD, Training, Extension Activities

38	Theni	Andipatty	Kathirnarasingapuram	Jasmine	Root rot and nematode incidence (40-50 %) resulting in low yield, Poor micronutrient management	FLD, Training, Extension Activities
39	Theni	Andipatty	Varadharajapuram	Marigold	Inferior types cultivated with low yield 2.5 kg/plant, flowers size is small and colour is not attractive, More prone to mite and diseases Private seeds are costly	FLD, Training, Extension Activities
40	Theni	Andipatty	Mullayampatti	Cumbu	Cleaning and grading is tedious, consumes more time and hand pain	FLD, Training, Extension Activities
41	Theni	Andipatty	Sithayagoundenpatti	Fodder crops	Low milk yield and lack of knowledge about fodder cultivation	Training, Extension Activities
42	Theni	Andipatty	Sithayagoundenpatti	Livestock	Mortality upto 10 % in adults and 30% in kids due to infectious diseases like neonatal viral enteritis, Enterotoxemia, Anthrax, Blue tongue Pneumonia, foot rot and endo and ectoparasitism. vaccination and deworming : no vaccination and medication No dipping is practiced to control ecto parasites .Improper housing conditions during rainy and winter seasons leading to heavy mortality in kids	FLD, Training, Extension Activities
43	Theni	Andipatty			High somatic cell count, incidence of subclinical mastitis, Poor self life of milk	OFT, Training, Extension Activities
44	Theni	Andipatty			Non availability of quality fodders and non cultivation of new variety under mixed fodder condition	IFS, Training, Extension activities
45	Theni	Andipatty			Mineral deficiency, Low milk yield, infertility in dairy cows	
46	Theni	Andipatty			Lack of knowledge on feeding practices for dairy cattle	
47	Theni	Andipatty			Endoparasitic infestation, Kid mortality and PPR incidence in goat.	
48	Theni	Andipatty			Non availability of quality breeds, unawareness of backyard poultry farming and incidence of ranikhet disease	
49	Theni	Andipatty			Lack of knowledge about agrisilvipastoral system	
50	Theni	Andipatty			Low yield 7 q/ha due cultivation of TMV 6 and non adoption of Integrated Crop Management practices	Cluster FLD, Training, Extension activities

51	Theni	Andipatty			Non utilization of natural resources in wider spacing crops	Training, Extension activities
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Crop/Enterprise	Thrust area
Paddy	Varietal evaluation
Maize	Integrated crop Management
Bhendi	Varietal evaluation
Onion	Integrated crop Management, Integrated pest management
Redgram	Integrated pest management, varietal evaluation
Grapes	Integrated crop Management
Grapes	Integrated crop Management
Banana	Resource conservation technology
Banana	Crop geometry evaluation
French beans	Varietal evaluation
Tomato	Integrated crop Management
Tamarind	Drudgery reduction
Green gram	Integrated crop Management
Organic farming	Resource utilization technologies
Paddy	Indigenous Technical; Knowledge
Brinjal	Integrated Pest Management
Guava	Integrated crop Management
Gingelly	Integrated crop Management
Samai	Integrated crop Management
Gingelly	Integrated crop Management
Sugarcane	Varietal evaluation
Mulberry	Varietal evaluation
Groundnut	Integrated crop Management
Sunflower	Integrated crop Management
Paddy	Integrated crop Management
Filed lab lab	Integrated pest management
Banana	Integrated crop Management
Black gram	Integrated crop Management
Ragi	Varietal evaluation
Cumbu	Integrated crop Management
Cotton	Integrated crop Management
Sorghum	Integrated crop Management
Black gram	Integrated crop Management
Green gram	Integrated crop Management
Jasmine	Integrated pest management
Marigold	Integrated crop Management
Cumbu	Integrated crop Management
Fodder crops	Integrated crop Management
Livestock	Disease management

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2016-17

OFT (Technology Assessment)				FLD (crop/enterprise/CFLDs)			
1				2			
Number of technologies		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
8	6	80	70	201	201	535	535

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers					750	678	8000	7152
Rural youth								
Extn. Functionaries					10	8	600	566

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
13	9.5	135	50000	31100	12

3.b. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Nutrient Management				
			5	5
Varietal Evaluation	Paddy	Assessment of High marketable Paddy variety for Theni district	5	5
	Ragi	Assessment of suitable Ragi varieties for rainfed situation in Theni District	5	5
	Sugarcane	Assessment of suitable drought tolerant sugarcane variety for Theni District	5	5
	Redgram	Assessment on Redgram varieties under rainfed condition	5	5

	m			
	Paddy	Assessment of suitable salinity tolerant variety for Theni district	5	5
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				
Post Harvest Technology / Value addition				
Drudgery Reduction	Paddy	Assessment of drudgery reduction of different weeders in paddy	5	5
Storage Technique				
ITK	Paddy	Assessment of glycemic index of traditional paddy varieties	5	5
Total			7	35

Summary of technologies assessed under **livestock** by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Disease Management	Live stock	Assessment of different preventive measures for subclinical mastitis in dairy cow	5	5
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management				
Production and Management				
Others (Pl. specify)				
Total			5	5

3.c. TECHNOLOGY ASSESSMENT IN DETAIL

1. Thematic area: varietal evaluation
2. Title: Assessment of High marketable Paddy variety for Theni district
3. Scientists involved: SMS (Agronomy)
4. Details of farming situation:

Describe the farming situation including Season, Farming situation (RF/Irrigated), Soil type, fertility Status, Seasonal rainfall (mm) No. of rainy days etc (about 500 words)

Paddy cultivated in Veerapandi village. This village comes under mullai periyar river basin irrigation area. The soil type is clay with high nitrogen, low Phosphorous and Potassium. Cropping scheme of this village Paddy- paddy -pulses, the main crop cultivation season is Kharif. Total area under paddy is 1000 ha with average production of 602 t/ha. the village received 20 rainy days with annual rainfall of 920 mm.

5. Problem definition / description: Low market price (Rs.13/kg) during kharif and low yield 5.5 t/ha in an area of 300 ha among 550 farmers

6. Technology Assessed:

TO 1: Farmer Practice Goraknath 509

TO 2: Recommended Practice :

TKM 13: Variety has medium slender fine grain with lesser 1000, grain weight (13.5 g). It matures in 130 days which is 7-10 days earlier than BPT 5204. The average grain yield is 5938 kg/ha. TKM 13 is moderately resistant to leaf folder, stem borer, green leaf hopper, blast, rice tungro disease, and brown spot and sheath rot.

TO: 3 Alternate Practice

NDLR 7, Medium slender, Fine grain, Moderately resistant to blast, sheath blight and stem borer

Duration : 125 – 130, Average yield : 6144 kg/ha, Potential yield: 7400kg/ha

7. Critical inputs given: (along with quantity as well as value)

Name of critical input	Qty per trial/ha	Cost per trial (Rs.)
TKM 13 seeds	4 kg / 0.5 ac	300
NDLR 7 Seeds	4 kg/ 0.5 ac	300
Azospirillum	600 g/ ac	25
Phosphobacteria	600g/ac	25
Pseudomonas	80g/ ac	10
Field board	1	400

8. Results:

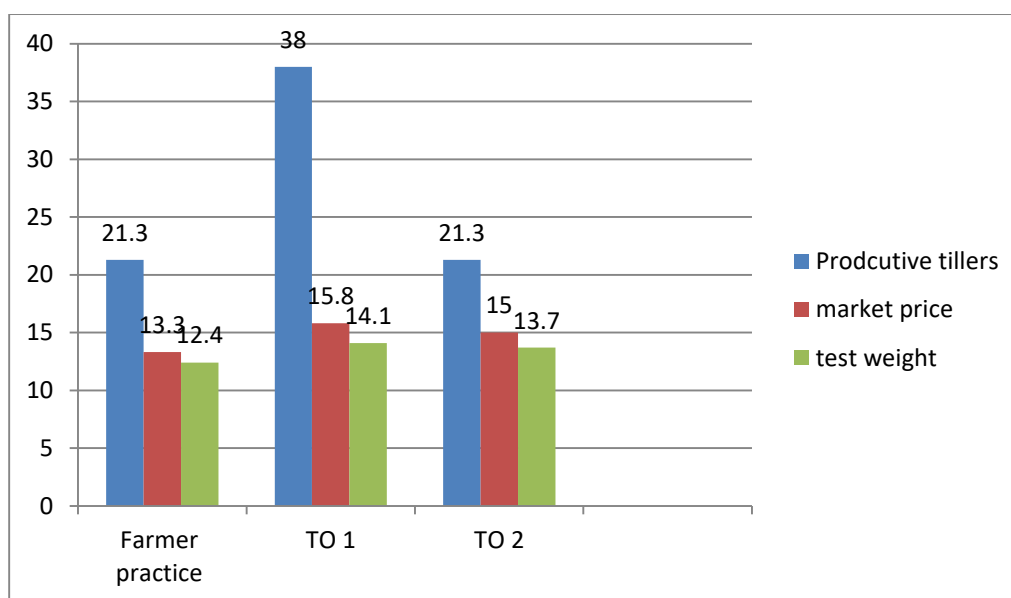
Table : Performance of the technology

<i>Technology Option</i>	<i>No.of trials</i>	<i>Yield (t/ha)</i>	<i>Net Returns (Rs. in a)</i>	<i>B:C ratio</i>	<i>No Of Productive Tillers/ Plant</i>
TO 1 (Goraknath 509)		66.00	39530	1.81	21.3
TO 2 (TKM 13)		77.89	73640	2.48	38.0
TO 3 (NDLR7)		70.12	56900	2.14	21.3

* *Other performance indicators: such as pest intensity, weed population, test weight, duration etc*

Description of the results: (one page) in addition you can use graphs also

Constraints faced:



During past one decade Goraknath 509 gives better yield than other varieties. Due to continuous cultivation of same variety leads to build up of pest and diseases particularly stem borer and leaf folder. In disease aspects bacterial leaf blight occasionally appear due to high relative humidity more than 4 days. Cultivation of TKM 13 were recorded low pest and disease incidence and high yield than other cultivars in this area. Mark price for other paddy varieties slightly lower than TKM 13.

9. Feed back of the farmers involved:

1. More number of productive tillers
2. Moderately resistant to leaf folder and stem borer
3. Bacterial leaf blight incidence was very low

10. Feed back to the scientist who developed the technology:

Seed production programme will engage the farmers to make available to the farmers

2. OFT

1. Thematic area: Varietal evaluation
2. Title: Assessment of suitable Ragi varieties for rainfed situation in Theni District
3. Scientists involved: SMS (Agronomy)

Details of farming situation:

Describe the farming situation including Season, Farming situation (RF/Irrigated), Soil type, fertility Status, Seasonal rainfall (mm) No. of rainy days etc (about 500 words)

The Ragi cultivation in kanniyapillaipatti village, Theni District under Rainfed condition. The main growing season of Ragi is Rabi. The major soil type is red loamy with good drainage. The nutrient status of soil is higher nitrogen, low phosphorous and higher potassium. This area received 860 mm of rain fall with 13 rainy days.

5. Problem definition / description: Non availability of improved variety and low yield (1100 Kg/ha) in cultivation of sunda Ragi with blast incidence and terminal drought during grain filling stage among 100 farmers in an area of 75 ha

6. Technology Assessed:

TO1 : Farmers Practice

Cultivation of Sunda Ragi (Indegenus variety)

TO2: Recommended Practice

Ragi CO 15

Special features

Long duration, bold grain, non shattering, non lodging, blast resistant with preferable grain quality with nutritious fodder characteristics

Rich in protein (11.8%)

Duration 125 days

Yield Rainfed - Grain – 29.50 q/ha;

Fodder - 5030 kg/ha

Irrigated - Grain – 34.61q /ha;

Fodder - 6698kg/ha

TO3: Alternate practice 1:

PPR 2700

Blast resistant, tolerant to terminal drought, duration 110 days, Yield 23.50 q/ha

Panicle compact and fingers incurved.

TO 4: Alternate practice 2:

ML 365

Duration : 100-110

Season : blast resistant

Resistant to blast, suitable for rainfed condition

Yield 25q /ha

7. Critical inputs given:

Name	Quantity	Value
CO 15 seeds	4 kg/ 0.5 ac	400
PPR 2700 seeds	4 kg/ o.5 ac	400
ML365 seeds	4 kg/ o.5	400

Azospirillum	ac	25
Phosphobacteria	600g/ac	25
Field board	600/ac	
	1	400

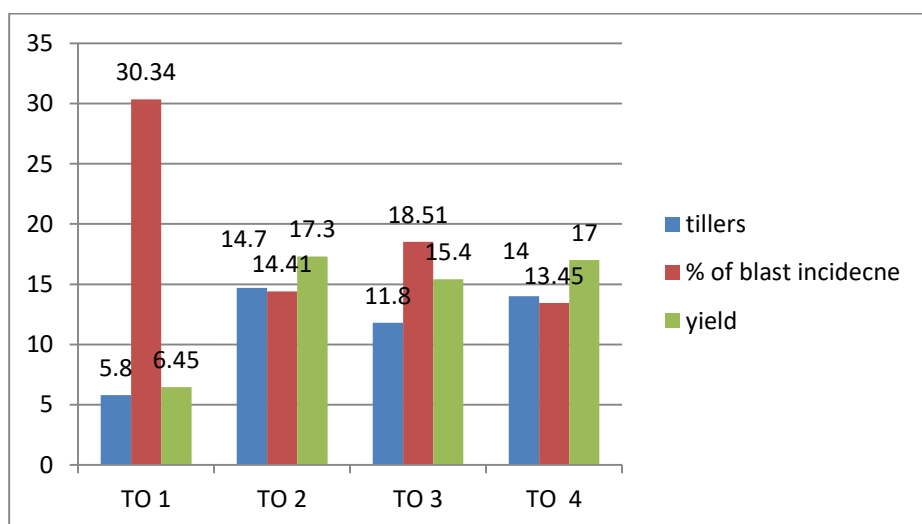
8. Results:

Table : Performance of the technology

<i>Technology Option</i>	<i>No.of trials</i>	<i>Yield (t/ha)</i>	<i>Net Returns (Rs. in lakh./ha)</i>	<i>B:C ratio</i>	<i>No of productive tillers/plant</i>	<i>Panicle size</i>
TO 1 farmers practice	5	6.45	8930	1.92	5.8	Incurved
TO 2 Recommended Practice:CO 15 Ragi		17.3	20410	2.47	14.7	Open
TO 3 Alternate Practice 1PPR 2700		15.4	16950	2.22	11.8	Top curved
TO 4 Alternate Practice 2ML 365		17.0	20150	2.45	14.0	Top curved

* *Other performance indicators: such as pest intensity, weed population, test weight, duration etc*

Description of the results: (one page) in addition you can use graphs also



Ragi is the third important millet next to sorghum andumbu. The major Constraints faced by the farmers are low yield, blast incidence and lodging during maturity stage. To overcome this problems KVK introduced high yielding, non lodging and blast resistance Ragi variety to this area viz. CO 51, ML 365, PPR 2700. Among these varieties CO 15 Ragi variety was recorded as high yield. ML 365 and CO15 were resistant to blast. Finally CO 15 Ragi variety gives higher yield and net profit.

9. Feed back of the farmers involved:

1. Drought incidences during milking stage reduce the yield.
2. Readily availability of high yielding varieties useful for the farmers

10. Feed back to the scientist who developed the technology:

1. Grain filling ratio was reduced during drought condition.

3. OFT

1. **Thematic area:** Varietal Evaluation

2. **Title:** Assessment of suitable drought tolerant sugarcane variety for Theni District

3. **Scientists involved:** SMS (Agronomy)

4. **Details of farming situation: Describe the farming situation including Season, Farming situation (RF/Irrigated), Soil type, fertility Status, Seasonal rainfall (mm) No. of rainy days etc (about 500 words)**

Sugarcane is cultivating as main cash crop in vadugappatti cluster. The main growing season is April and May. The major soil type is clay with high nutrient capacity. The area received 890 mm of rainfall with 14 rainy days.

5. **Problem definition / description:** Low yield (120 t/ha) due to non availability of drought tolerant variety in an area of 400 ha among 600 farmers

6. **Technology Assessed: Farmers practice :**

Sathanai India 309

Duration:12 months

Yield :118t/ha

Yellowing during water logging and drought

Internode borer incidence

TO 1: Recommended practice

TNAU Sugarcane Si 8

High cane yield 146 t/ha

Commercial cane sugar – 12.9% ,High sugar yield – 18 t/ha, Ratoon crop yield 135 t/ha, Thick and Straight

Tolerant to drought,water stagnation and red rot

Good performance in problem soil. Duration : 11 month

TO 2: Alternate practice

CO 0212

Special features

Yield 165t/ha, Sugar yield : 19.27t/ha, Tolerant to drought,water stagnation and red rot, Good performance in problem soil.

Duration : 11 months

7. **Critical inputs given: (along with quantity as well as value)**

Name	Quantity	Value
TNAU Si 8 setts:	15000 nos (2 buded)/0.5 ac	3000
C O 0212 setts:	15000 nos (2 budded)/ 0.5 ac	3000
PPFM	1000 ml/ac	300
Field board	1	400

8. Results:

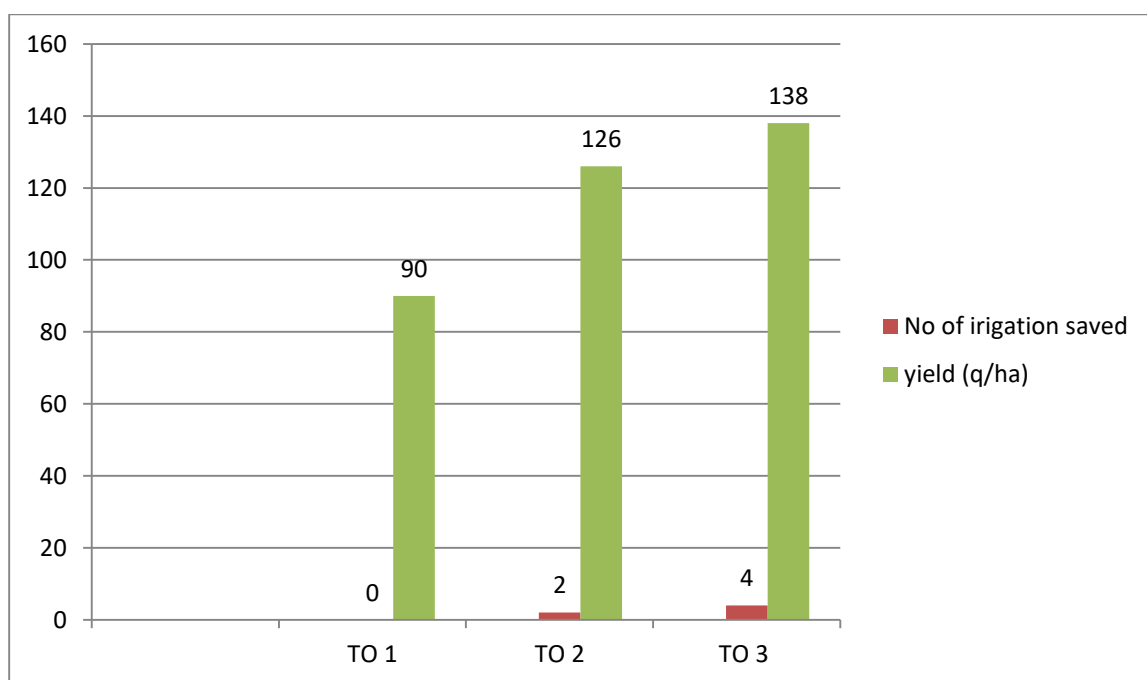
Table : Performance of the technology

<i>Technology Option</i>	<i>No.of trials</i>	<i>Yield (t/ha)</i>	<i>Net Returns (Rs. in lakh./ha)</i>	<i>B:C</i>	<i>Productive tillers</i>	<i>Drought withstandability</i>	<i>No of irrigation saved</i>
TO 1 sathanai India 309	5	90	137450	2.33	9	Poor	0
TO 2 Si 8		126	208555	3.15	21	Medium	2
TO 3 Co 0212		138	234715	3.54	18	Average	4

* Other performance indicators: such as pest intensity, weed population, test weight, duration etc

Description of the results: (one page) in addition you can use graphs also

Constraints faced:



The major incidence of drought during maturity stage reduces the cane yield and sugar content. To avoid this problem KVK introduce the short duration and drought tolerant varieties to this cluster viz. SI 8 & CO 0212. Among this variety CO 0212 was recorded higher yield than other variety. Due to shorter duration of this variety four numbers of irrigations are saved.

9. Feed back of the farmers involved:

1. Incidence of early shoot borer
2. Yield was very high under moisture stress situation than other variety

10. Feed back to the scientist who developed the technology:

1. Slow growth rate of sugarcane at early stage increase the number of irrigation and number of productive tillers are very low

4. OFT

1. Thematic area: varietal evaluation
2. Title: Assessment on Redgram varieties under rainfed condition
3. Scientists involved: SMS (Agronomy)

4. Details of farming situation: Describe the farming situation including Season, Farming situation (RF/Irrigated), Soil type, fertility Status, Seasonal rainfall (mm) No. of rainy days etc (about 500 words)

Redgram cultivation is under Rainfed condition in Sukkankalpatti cluster. The main growing season of red gram is June-July. The major soil type under red gram is red loamy with average nutrient content. The area received 910 mm of rainfall with 18 rainy days.

5. Problem definition / discription: Cultivation of old variety Very long duration (270 days), Pod borer complex 27% , terminal drought during pod development stage and non availability of improved shorter duration variety in an area of 200 ha among 400 farmers

6. Technology Assessed: **TO1: Farmers Practice**

Vellai thuvarai

Duration 10 months

Yield : 6 q/ha

TO 2: Recommended practice

CORG 7

Photo-insensitive,

Duration 130 days, semi spread,

Low incidence of Pod borer complex, green with purple streak pods.

Yield – 950 kg/ha

TO3: Alternate practice 1

LRG 52

Duration -140 days

Resistant to *Helicoverpa*,

Wilt & Sterility Mosaic Virus

Yield – 2000 kg/ha (R)

TO2: Alternate practice 2

ICPL 14003(Ujwala)

Yield : 2500kg//ha

Duration: 130 days

Resistant to terminal drought

7. Critical inputs given: (along with quantity as well as value)

Name	Quantity	Value
Redgram CO (Rg) 7 seeds	3 kg /0.4 ac	750
ICPL Seeds	3 kg /0.4 a	900
Redgram LRG 52	3 kg /0.4 ac	900

seeds		
Pulse wonder	1kg	200
Field board	1	400

8. Results:

Table : Performance of the technology

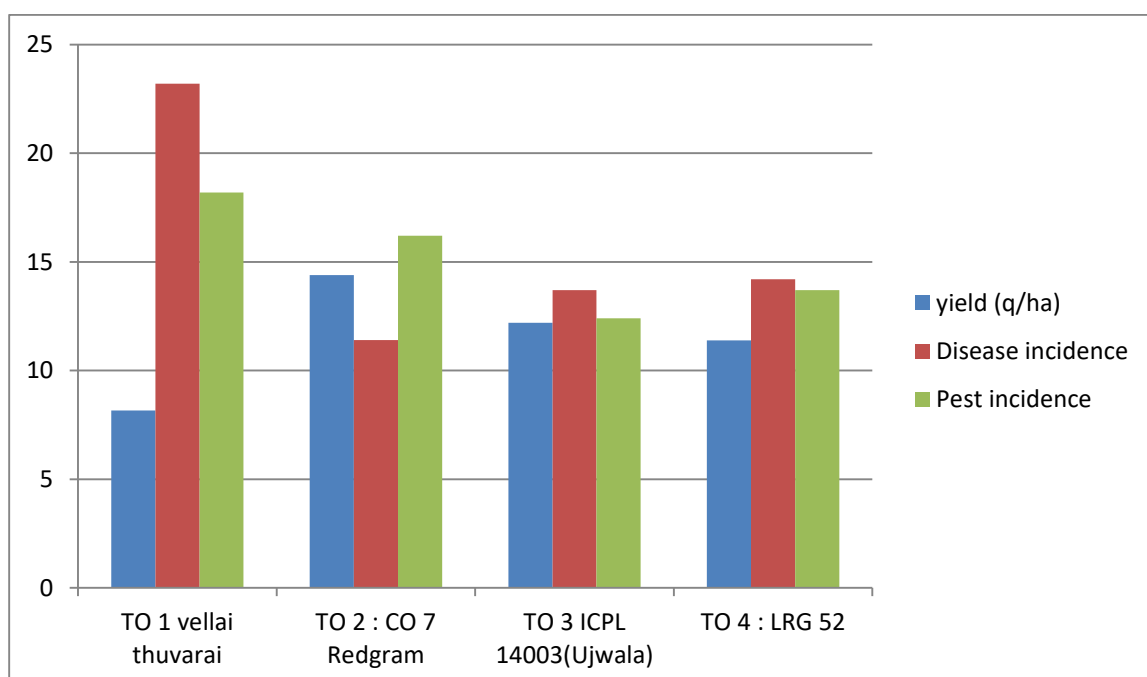
<i>Technology Option</i>	<i>No.of trials</i>	<i>Yield (t/ha)</i>	<i>Net (Rs. in</i>	<i>B:C ratio</i>	<i>No of branches</i>	<i>Disease incidence</i>	<i>Pest incidence</i>
TO 1 vellai thuvurai	5	8.16	20041	1.96	7	23.2	18.20
TO 2 : CO 7 Redgram		14.40	35750	2.52	10	11.4	16.2
TO 3 ICPL 14003(Ujwala)		12.20	24927	2.06	12	13.7	12.4
TO 4 : LRG 52		11.39	23500	2.02	13	14.2	13.7

* Other performance indicators: such as pest intensity, weed population, test weight, duration etc

Description of the results: (one page) in addition you can use graphs also:

Redgram is the major pulse in Theni District. Farmers are growing long duration variety with 10 month. Due to long dry spell during flowering and pod formation stage leads to low yield. To overcome this problem KVK introduces shorter duration variety with ICM. Among these varieties CO 7 was recorded high yield and higher net profit.

Constraints faced: Low yield and moisture stress



9. Feed back of the farmers involved:

- Flower dropping
- Less number of branches

10. Feed back to the scientist who developed the technology:

Incidence of sucking pest during flowering stage reduce the Pod formation ratio.

5.OFT

1. Thematic area : ITK

2. Title : Assessment of glycemic index of traditional paddy varieties

3. Scientists involved : SMS (Home Science) and SMS (Agronomy)

4.Details of farming situation: Describe the farming situation including Season, Farming situation (RF/Irrigated), Soil type, fertility Status, Seasonal rainfall (mm) No. of rainy days etc (about 500 words)

5. Problem definition / description: (one paragraph)

Under utilization of traditional rice varieties and Therapeutic properties of traditional rice varieties not known.

6. Technology Assessed: (give full details of technology as well as farmers practice)

Selection of Area: Pottipuram Village, Theni District

Selection of Sample: 10 healthy Female volunteers between 30-35 years old

(Based on the glucose level and willingness we have selected 5 subjects for the trials)

The subjects were selected with a fasting blood sugar level 80-100mg/dl.

Inclusion Criteria: Healthy subjects and free from any other major complications were selected.

Exclusion Criteria: Subjects were excluded if they reported a history of GI disorders, suffered from diabetes were taking medicine for any chronic disease conditions, pregnant women, breastfeeding mother or allergic to any other foods.

Collection of Data: Height, Weight, BMI, fasting blood glucose and post prandial

Preliminary Meeting : We have conducted awareness camp about the importance of traditional paddy varieties and Diabetes.

Nutrient Analysis

The carbohydrate content was determined for CO 51, Val kuruvai and Red gavuni rice flakes by Anthrone Method.

Conduct of Sensory Evaluation

The Three variants (CO 51, Val kuruvai and Red gavuni) of Rice flakes were coded and subjected to organoleptic evaluation. A group of five semi trained panelist evaluate the quality such

as appearance, colour, texture, flavor and taste using a standardized score card. The quality parameters were qualified and the mean score was calculated.

Supplementation of rice flakes: 75 g of rice flakes were given to the selected subjects and impact was assed by post prantial blood glucose using finger prick method.

Finally KAP was assessed about the traditional paddy varieties and Diabetes

7. Critical inputs given: (along with quantity as well as value)

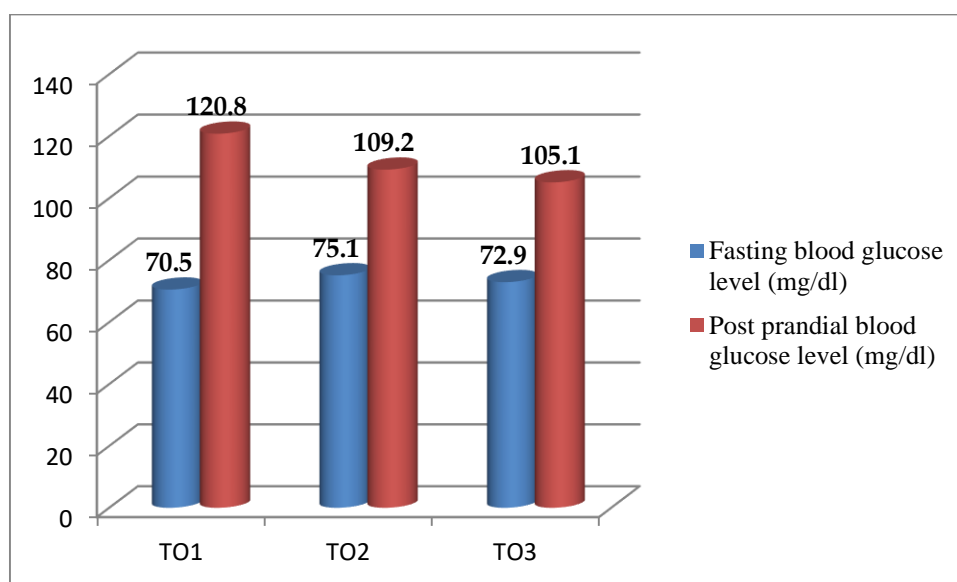
Name	Quantity	Value
Rice flakes	75 g	1000
Estimate for available carbohydrate	3 samples	900
Glucometer and strips for glucometer	1	4400
Field board	1	400

8. Results:

Table : Performance of the technology

<i>Technology Option</i>	<i>No.of trials</i>	Consumer preference test	Sensory evaluation	Fasting blood glucose level mg/dl	Post prandial blood glucose level mg/dl
Technology 1: Farmers Practice Milled rice CO 51	5	4.3	4.25	70.5	120.8
Technology 2 Vaal kuruvai		4.5	4.48	75.1	109.2
Technology 3 Red kavuni rice		4.7	4.84	72.9	105.1

* Other performance indicators: such as pest intensity, weed population, test weight, duration etc



Description of the results: (one page) in addition you can use graphs also

The result revealed that the traditional paddy varieties like val kuruvai and red gavuni having therapeutic values when compared to CO 51. The traditional paddy varieties rice flakes its maintaining the blood glucose level of the subjects. . Based on trial the results revealed that traditional paddy varieties rice flakes would be an effective food based approach in combating diabetes.

Constraints faced:

The farmers are not willing to growing traditional paddy varieties due to long duration.

9. Feed back of the farmers involved:

Red gavuni preferred for diabetes subjects

10. Feed back to the scientist who developed the technology:

Low yield and long duration traditional variety will leads to less adoption of the traditional paddy paddy varieties

6. OFT

1. Thematic area : Drudgery reduction

2. Title : Assessment for drudgery reduction of different weeders in paddy

3. Scientists involved: SMS (Home Science) and SMS (Agronomy)

4. Details of farming situation: Describe the farming situation including Season, Farming situation (RF/Irrigated), Soil type, fertility Status, Seasonal rainfall (mm) No. of rainy days etc (about 500 words)

5. Problem definition / description: (one paragraph)

Weeding is the foremost laborious operation in paddy cultivation then other inputs. Weed management is the major problem in rainfed and garden lands. Implements are essential to address shortage, reduce cost and drudgery for women engaged in weeding operation, hence KVK introduced different types of weeders to reduce the drudgery especially for farm women

6. Technology Assessed: (give full details of technology as well as farmers practice)

TO 1: Manual weeding

TO 2: Rotary star weeder for wet land

TO 3: Modified cono weeder (**Farmer Innovation**) Validated by KVK, Karur

7. Critical inputs given: (along with quantity as well as value)

Name	Quantity	Values
Rotary Star weeder	1	1000
Modified cono weeder (Farmer Innovation) Validated by KVK, Karur	1	1500
Field board	1	400

8. Results:

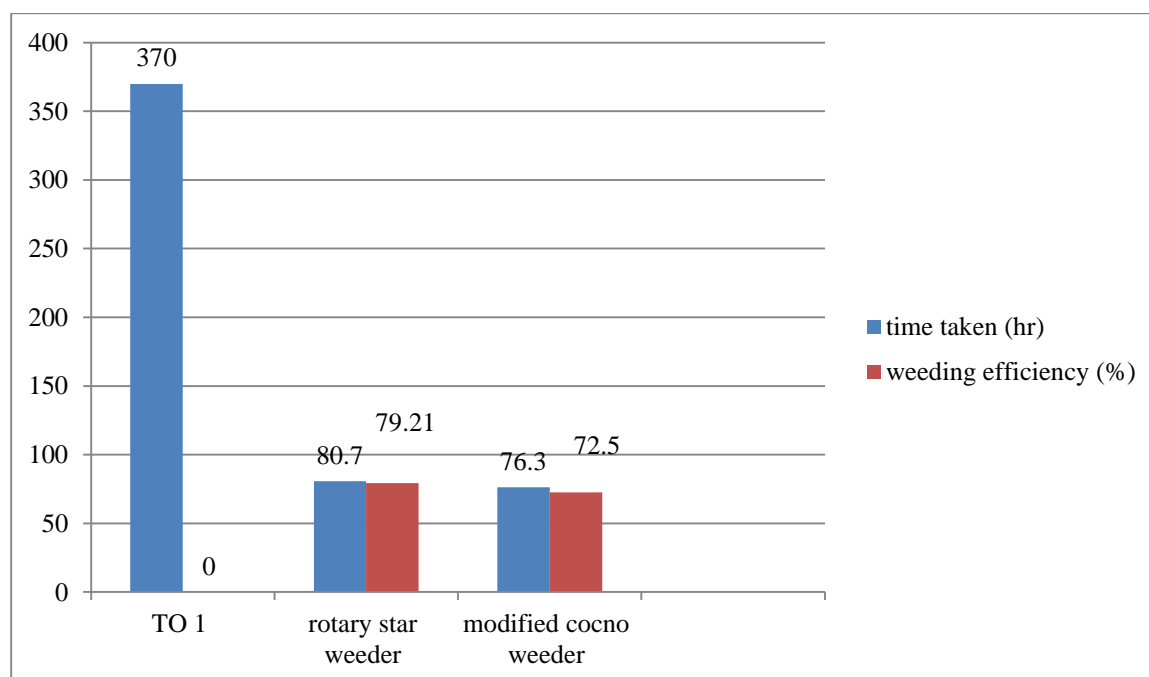
Table : Performance of the technology

<i>Technology Option</i>	<i>No. of trials</i>	<i>Yield (t/ha)</i>	<i>Net (Rs. in lakh./ha)</i>	<i>B:C ratio</i>	<i>Time taken (hr)/ha</i>	<i>Weeding efficiency (%)</i>
<i>Farmers Practice</i>	5					
Technology 1 Farmers practice		66.21	0.31202	1.64	370	-
Technology 2 Rotary star weeder		68.41	0.37592	1.84	80.7	79.21
Technology 3 Modified cono weeder		69.45	0.40940	1.96	76.3	72.5

* Other performance indicators: such as pest intensity, weed population, test weight, duration etc

Description of the results: (one page) in addition you can use graphs also

Constraints faced:



The trail revealed that both the weeders selected for the trails that is rotary and modified cono weeders has its own strength and limitations. Modified cono weeder can be recommended in the later stages of

weed growth as the better weeding efficiency more turning of the soil and uprooting of weeds. Overrules the higher cost of operations.

9. Feed back of the farmers involved:

- Cost of weeding is reduced
- Easy to transport from one fields to other field

10. Feed back to the scientist who developed the technology:

Most of the farmers are not willing to use weeders because of not adopting line planting.

3.d. FRONTLINE DEMONSTRATION

a. Follow-up of FLDs implemented during previous years

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Paddy	ICM	ICM in Paddy with CO 51 Paddy variety	Training, Campaign, Farmers Visit to FLD fields	1	10	4
2	Maize	ICM	Demonstration of CO HM 6 Maize Hybrid with ICM	Training, Campaign, Farmers Visit to FLD fields	1	10	4
3	Cumbu	ICM	Demonstration of Co 10 Bajra variety with ICM	Training, Campaign, Farmers Visit to FLD fields	1	10	4
4	Samai	ICM	Demonstration of Samai Co (Samai) 4 variety	Training, Campaign, Farmers Visit to FLD fields	1	10	4
5	Cotton	ICM	Demonstration on CO 14 Cotton variety with special focus on stem weevil and Mg deficiency	Training, Campaign, Farmers Visit to FLD fields	1	10	4
6	Sorghum	Varietal evaluation	Integrated Crop Management in Sorghum with K12 variety	Training, Campaign, Farmers Visit to FLD fields	1	15	6
7	Mulberry	Varietal evaluation	Demonstration of MSG2 mulberry variety with Seriboost	Training, Campaign, Farmers Visit to FLD fields	1	5	2
8	Marigold	Varietal evaluation	Demonstration of Arka Agni Marigold variety with ICM	Training, Campaign, Farmers Visit to FLD fields	1	10	4
9	Guava	ICM	Integrated Crop Management Practices In Guava Arka Kiran	Training, Campaign, Farmers Visit to FLD fields	1	10	4
10	Jasmine	ICM	Demonstration of ICM In Jasmine	Training, Campaign, Farmers Visit to FLD fields	1	10	4
11	French beans	ICM	Demonstration of Arka Sharath French beans variety with ICM	Training, Campaign, Farmers Visit to FLD fields	1	10	4

12	Banana	Resource conservation technology	Demonstration of Drought stress technologies in Banana	Training, Campaign, Farmers Visit to FLD fields	1	10	4
	Banana	ICM	Demonstration of ICM In Banana	Training, Campaign, Farmers Visit to FLD fields	1	10	4
14	Goat	Livestock	Scientific Management And Comprehensive Disease Control Practices In Goat Rearing	Training, Campaign, Farmers Visit to FLD fields	1	10	4
15	Millets	Drudgery reduction	Demonstration of Rotary Sieve Multi Crop Cleaner Cum Grader	Training, Campaign, Farmers Visit to FLD fields	1	10	4
16	Tamarind	Drudgery reduction	Demonstration of tamarind deseeder as group approach for farm women	Training, Campaign, Farmers Visit to FLD fields	1	10	4

* *Thematic areas as given in Table 3.1 (A1 and A2)*

- b. Details of FLDs implemented during the current year (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.**)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Source of funds	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
						Proposed	Actual	SC/ST	Others	Total	
	Paddy	ICM	ICM in Paddy with CO 51 Paddy variety	Kharif 2017	ICAR	4	4	0	10	10	
	Maize	ICM	Demonstration of CO HM 6 Maize Hybrid with ICM	Kharif 2017	ICAR	4	4	0	10	10	
	Cumbu	ICM	Demonstration of Co 10 Bajra	Kharif 2017	ICAR	4	4	0	10	10	

			variety with ICM								
	Samai	ICM	Demonstration of Samai Co (Samai) 4 variety	Kharif 2017	ICAR	4	4	0	10		
	Cotton	ICM	Demonstration on CO 14 Cotton variety with special focus on stem weevil and Mg deficiency	Rabi 2017-2018	ICAR	4	4	0	10		
	Sorghum	Varietal evaluation	Integrated Crop Management in Sorghum with K12 variety	Rabi 2017-2018	ICAR	6	6	0	15		
	Mulberry	Varietal evaluation	Demonstration of MSG2 mulberry variety with Seriboost	Rabi 2017-2018	ICAR	2	2	0	5	5	Non availability of variety
	Marigold	Varietal evaluation	Demonstration of Arka Agni Marigold variety with ICM	Rabi 2017-2018	ICAR	4	4	5	5	10	
	Guava	ICM	Integrated Crop Management Practices In Guava Arka Kiran	Kharif 2017	ICAR	4	4	0	10		
	Jasmine	ICM	Demonstration of ICM In Jasmine	Rabi2017 2018	ICAR	4	4	0	10		

	French beans	ICM	Demonstration of Arka Sharath French beans variety with ICM	Rabi2017 2018	ICAR	4	4	0	10	
	Banana	Resource conservation technology	Demonstration of Drought stress technologies in Banana	Rabi2017 2018	ICAR	4	4	0	10	
	Banana	ICM	Demonstration of ICM In Banana	Rabi2017 2018	ICAR	4	4	0	10	
	Goat	Live stock	Scientific Management And Comprehensive Disease Control Practices In Goat Rearing	Rabi2017 2018	ICAR	4	4	0	10	
	Mill ets	Drud gery redu ction	Demonstration of Rotary Sieve Multi Crop Cleaner Cum Grader	Rabi2017 2018	ICAR	4	4	0	10	
	Tamarind	Drud gery redu ction	Demonstration of tamarind deseeder as group approach for farm women	Rabi2017 2018	ICAR	4	4	0	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Kharif	Irrigated	Clay	210	9	185	Pulses	21.7.2017	7.12.2017		
Maize	Kharif	Irrigated	Sandy loam	198	9.2	187	Vegetables	29.8.2017	2.12.2017		
Cumbu	Kharif	Rainfed	Sandy loam	208	10.3	190	Redgram	26.7.2017	4.1.2018		
Samai	Kharif	Rainfed	Sandy loam	218	15.3	188	Sorghum	4.9.2017	10.11.2017		
Cotton	Rabi	Rainfed	Clay	231	12	116	Maize	14.11.2017	28.3.2018		
Sorghum	Rabi	Rainfed	Clay	216	11.5	191	Cumbu	8.10.2017	26.1.2018		
Mulberry	Rabi	Irrigated	Clay	212	13.1	195					
Marigold	Kharif	Irrigated	Clay	211	12.6	118	Pulses	10.5.2017	2.8.2017		
Guava	Kharif	Irrigated	silty loam	281	10.6	188		27.4.2017	31.7.2017		
Jasmine	Rabi	Irrigated	Sandy loam	283	9.3	115.6		8.1.2018	3.3.2018		
French beans	Rabi	Irrigated	Silty loam	283	14.5	18.8	Vegetables	5.1.2018	29.3.2018		
Banana	Rabi	Irrigated	Clay	218	10.5	195	Onion	2.1.2018	31.3.2018		
Banana	Rabi	Irrigated	Silty loam				Sorghum	2.5.2017	28.7.2017		
Goat	Rabi										
Millets	Rabi										
Tamarind	Rabi										

Performance of Frontline demonstrations

[illegible]

[illegible]

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

** BCR= GROSS RETURN/GROSS COST

FLD on Livestock

[illegible]

Dairy																		
Poultry																		
Sheep																		
Goat																		

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

** BCR= GROSS RETURN/GROSS COST

FLD on Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demons ration	Check		Demons ration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)

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

** BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises

Category	Name of the technology demonstrated	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			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Mushroom																
Apiculture																
Maize Sheller																
Value Addition																
Vermi Compost																

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
Drudgery Reduction	Demonstration of Rotary Sieve Multi Crop Cleaner Cum Grader	10	Efficiency (%) Capacity/hr BCR:	80 % 190 kg/h 2.3	20 kg/h
Drudgery reduction	Demonstration of tamarind deseeder as group approach for farm women	10	Efficiency, (%) : Capacity/hr BCR	78 55 kg/h 4.25	2.5 kg/h

FLD on Farm Implements and Machinery

[illegible]

FLD on Other Enterprise: Kitchen Gardening

[illegible]

FLD on Demonstration details on crop hybrids (*Details of Hybrid FLDs implemented during 2016-17*)

[illegible]

Vegetable crop													
Fruit crop													
Maize	Demonstration of CO HM 8 Maize Hybrid with ICM	COHM 6	10	4	79.4	68.43	75.23	58.23	28	37500	90276	52776	2.40

Crop	Source of fund	Thematic Area	technology demonstrated	Name of the Variety/ Hybrid		No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
				Do mo	Check			Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
								High	Low	Average										
Black gram	ICAR	ICM in Black gram	VBN 6 IPM, INM and ICM seed treatment and foliar application of MN mixture, pulse wonder, PPFM, and Thiamethoxam 25% WG 100g/ha,Neem oil 2%/Tank, Carbendazim 500g/ha, mancozep 1000g/ha	VB N6	Local	25	10	8.5	3.54	6	5.9	2	18500	49490	30990	2.68	16400	25500	12100	1.74
Green gram	ICAR	ICM in Green gram	Co 8 IPM, INM and ICM seed treatment and foliar application of MN mixture, pulse wonder, PPFM, and Thiamethoxam 25%WG 100g/ha,Neem oil 2%/Tank, Carbendazim 500g/ha, mancozep 1000g/ha	CO 8	CO 4	25	10	6.4	5.8	6.1	5.7	7	16450	36600	20150	2.22	15104	24950	9846	1.65

Red gram	ICAR	ICM in Red gram	Co 7 seeds MN mixture Difenconazole Trchoderma PPFM Pulses wonder	CO 7	Vellai thuvai	25	10	11.3 9	7.85	9.62	8.16	17	23488	59238	35750	2.52	20784	40825	20041	1.96
Groundnut	ICAR	ICM in Groundnut	IPM, INM and ICM focused on Gypsum application, seed treatment and soil application of Trichoderma, foliar application of MN mixture, Groundnut rich, PPFM, and Difenconazole and use of Groundnut stripper	CO 7	TMV 4	75	30	25.1	18	19.02	15.8	20.25	18500	39500	21000	2.14	19094	47570	28476	2.49
Gingelly	ICAR	ICM in Gingelly	IPM, INM and ICM focused seed treatment and soil application of Trichoderma, foliar application of MN mixture, , PPFM, and Difenconazole	TM V 7	Local	25	10	8.5	7	7.53	6.1	23	18304	52602	34298	2.87	17450	42700	25250	2.45
Rabi																				
Groundnut	ICAR	ICM in Groundnut	IPM, INM and ICM focused on Gypsum application, seed treatment and soil application of Trichoderma, foliar application of MN mixture, Groundnut rich, PPFM, and Difenconazole and use of Groundnut stripper	CO 7	TMV 4	75	30	24.6 4	17.4 5	20.41	16.6	22	19535	54485	34950	2.78	18500	34500	21000	2.13

Gingelly	ICAR	ICM in Gingelly	IPM, INM and ICM focused seed treatment and soil application of Trichoderma, foliar application of MN mixture, , PPFM, and Difenconazole	TM V 7	Local	25	10	9.15	7.65	8.18	6.1	34	18469	57268	38619	3.10	17450	42700	25250	2.44
Sunflower	ICAR	ICM in Sunflower	ICM , Borax application, Intergrtaed Pest management	CO 3	Local	25	10	17.2	13.7	15.91	11.7	35	16093	39797	23703	2.47	16369	30100	13731	1.83
Black gram	ICAR	ICM in Black gram	VBN 6 IPM, INM and ICM seed treatment and foliar application of MN mixture, pulse wonder, PPFM, and Thiamethoxam 25% WG 100g/ha,Neem oil 2%/Tank, Carbendazim 500g/ha, mancozep 1000g/ha	VB N6	CO4	25	10	8.3	4.6	6.8	5.8	17	18500	47600	29000	2.57	18650	40600	216950	2.17
Green gram	ICAR	ICM in Green gram	Co 8 IPM, INM and ICM seed treatment and foliar application of MN mixture, pulse wonder, PPFM, and Thiamethoxam 25%WG 100g/ha,Neem oil 2%/Tank, Carbendazim 500g/ha, mancozep 1000g/ha	VB N 4	Local	25	10	6.8	4.9	6.5	5.2	24	16450	45500	19.50	2.76	15104	24950	9846	1.65

4. Training Programmes

Farmers' Training including sponsored training programmes (on campus)

[illegible]

[illegible]

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
IX 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)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	19	352	92	444	48	16	64	401	107	508

Farmers' Training including sponsored training programmes (off campus)

[illegible]

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics	1	40	0	40	0	0	0	40	0	40
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total	1	40	0	40	0	0	0	40	0	40
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	30	524	184	708	112	53	90	636	237	870

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	29	0	29	0	0	0	29	0	29
Resource Conservation Technologies	1	70	35	105	23	0	23	128	29	157
Cropping Systems	1	29	0	29	0	0	0	29	0	29

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology	1	30	0	30	0	0	0	30	0	30
Processing and value addition										
Others (pl specify)										
Total (f)	1	30	0	30	0	0	0	30	0	30
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology	2	45	0	45	0	0	0	45	0	45
Post harvest technology and value addition										
Others (pl specify)										
Total (g)	2	45	0	45	0	0	0	45	0	45
GT (a-g)	16	321	20	341	38	0	38	359	20	379
III Soil Health and Fertility Management										
Soil fertility management	1	45	0	45	0	0	0	45	0	45
Integrated water management										
Integrated Nutrient Management	2	12	0	12	28	0	0	40	0	40
Production and use of organic inputs	1	40	0	40	0	0	0	40	0	40
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	4	97	0	97	28	0	0	125	0	125

[illegible]

Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements	6	15	0	15	0	0	0	15	0	15
Value addition	1	0	17	17	0	0	0	0	17	17
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)										
TOTAL	7	15	17	32	0	0	0	15	17	32

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	2	16	8	32	0	0	0	16	8	32
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	2	16	8	32	0	0	0	16	8	32

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

[illegible]

Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	1	4	4	8	0	0	0	4	4	8

Training programmes for Extension Personnel including sponsored training programmes – CONSOLIDATED (On + 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	3	20	12	40	0	0	0	20	12	40
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	3	20	12	40	0	0	0	20	12	40

Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total										

5. Extension Programmes

Extension Activity	No. of activities	Participants		
		Farmers	Extension Functionaries	Total
Diagnostic Visits	12	60	23	83
Exposure Visit	6	225	9	234
Farmers visits to KVK	89	223	3	226
Advisory enquiry / Helpline services	27	495	28	523
Farmers Meeting	7	215	24	239
FFS Demonstration	2	50	0	50
Field day	40	1215	96	1311
Scientists visits to farmers fields	77	276	17	293
Home visit	44	120	4	124
FLD Field Visit	215	670	20	690
OFT Field Visit	80	130	4	134
Method demonstration	5	72	12	84
Farmers Tour	2	40	0	40
Lecture Delivered	39	2059	287	2346
Guidance to Students	13	211	0	211
SMS Messages	12	360	2	362
Kisan Mahila Diwas Celebration	1	21	2	23
Soil Health Day	1	125	30	155
Sankalp Se Sidhi	1	510	2	512
Swachhta Hi seva	5	75	3	78
Total	678	7152	566	7718

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	5
Extension Literature	75
News paper coverage	18
Popular articles	3
Radio Talks	21
TV Talks	0
Animal health amps (Number of animals treated)	0
Others (pl. specify)	0
Total	122

Messages sent**MOBILE ADVISORY SERVICES THROUGH MKISAN PORTAL**

(While filling mobile advisory data, only fill numbers under 'Type of messages'. Please don't add any text)

No of registered farmers:

Types of Messages	Type of messages													
	Crop		Livestock		Weather		Marketing		Awareness		Other enterprise		Total	
	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers
Text only	13	390			1	30	1	30			4	120	19	570
Voice only														
Voice & Text both														
Total Messages	13	390			1	30	1	30			4	120	19	570
Total farmers Benefitted	13	390			1	30	1	30			4	120	19	13

6. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Gosthies	2	100	Enhancement of pulses production technologies
Lectures organized	4	152	New agricultural technologies, Doubling the farmers income
Exhibition	3	140	New agricultural technologies, Doubling the farmers income
Film show	2	60	Organic farming
Fair	2	750	Doubling the farmers income and soil health
Farm Visit	4	24	Pulses and Sugarcane
Diagnostic Practicals	2	15	YMV incidence in Pulses
Distribution of Literature (No.)	4	600	Crop insurance and Soil health
Distribution of Seed (q)			
Distribution of Planting materials (No.)			
Bio Product distribution (Kg)	100	100	Soil health maintenance
Bio Fertilizers (q)			
Distribution of fingerlings			
Distribution of Livestock specimen (No.)			
Total number of farmers visited the technology week			

7. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs (give quantity of seed in quintals only)

Crop	Name of the crop	Name of the variety /hybrid	Quantity of seed produced (q)	Value (Rs)	Seed supplied to farmers		Supplied to other agencies (q)
					Quantity (q)	No of farmers	
Cereals	Cumbu	CO 10	3	12000	3	55	
	Sorghum	CO 30	3	18000	3	35	
Oilseeds							
Pulses	Green gram	CO 8	2	14000	2	25	
	Black gram	VBN 6	1.5	10500	1.5	20	
Commercial crops							

Vegetables							
Flower crops							
Spices							
Fodder crop seeds							
Fiber crops							
Forest Species							
Others							
Total			9.5	43700	9.5	135	

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety / hybrid	Number	Value (Rs.)	Planting material supplied to farmers		Supplied to other agencies (No)
					No	No of farmers	
Commercial							

Vegetable seedlings	Tomato	PKM 1	9000	5400	9000	3	
	Chilli	K 1	21000	12600	21000	5	
	Coccinia		500	5000	500	2	
Fruits	Dogridge Rootstock		600	4200	600	2	
Ornamental plants							
Medicinal and Aromatic							
Plantation							
Spices							
Tuber							
Fodder crop saplings							
Forest Species							
Others							
Total				31100	27200	12	

Production of Bio-Products

	Name of the bio-product	Quantity Kg	Value (Rs.)	Supplied to farmers		Supplied to other agencies
				kg	No of farmers	Kg
Bio Products						
Bio Fertilisers						
Bio-pesticide						
Bio-fungicide						
Bio Agents						
Others						
Total						

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Supplied to farmers		Supplied to other agencies (No)
				No	No of farmers	
Dairy animals						
Cows						
Buffaloes						
Calves						

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Supplied to farmers		Supplied to other agencies (No)
				No	No of farmers	
Others (Pl. specify)						
Poultry						
Broilers						
Layers						
Duals (broiler and layer)						
Japanese Quail						
Turkey						
Emu						
Ducks						
Others (Pl. specify)						
Piggery						
Piglet						
Others (Pl. specify)						
Fisheries						
Indian carp						
Exotic carp						
Others (Pl. specify)						
Total						

8. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	685	685	35	6000
Water	110	110	24	5500
Plant				
Manure				
Others (pl.specify)				
Total	795	795	59	11500

9. SCIENTIFIC ADVISORY COMMITTEE

Date of SAC meeting	Number of members attended
31.03.2018	35

Note: please attach the proceedings of sac meeting along with the list of participants

Sl No	Major recommendation proposed by	Recommendation	Action taken
1	Mr.M. Pandian, President, Theni District Farmers Association	Popularize poly house cultivation	We have planned to organize 4 awareness programme on poly house cultivation during this year
		Motivate farmers to set up at least 1 poly house/block with the subsidy available with the state department	We have planned to link the farmers to Department of horticulture under MHM scheme.
		Popularize grapes cultivation under poly house condition	We have planned to organize the farmers for poly house/protected grapes cultivation in Chinnamanur block.
		Promote pepper cultivation in Western Ghats area	We have planned to conduct 2 trainings on Pepper seedling production in Cumbum block
		Create awareness about the effect of deforestation	We have planned to conduct two awareness programme on effect of deforestation at Bodi and Aundipatty Block.

2	Mr. Pon.Dhanapalan, Programme Executive, All India Radio, Madurai	Develop a crop plan for coming year	We have planned to prepare the crop plan for major crops in Theni district during this year
		Organize farmers in to groups for training and marketing	We have planned to organize 10 farmers commodity group for training and marketing.
		Conduct trainings on herbal treatment for live stock and organic farming	We have planned to conduct one training programme on herbal treatment for live stock and organic farming at Aundipatty block
		Create awareness about Farmers' Rights and protection of plant varieties	We have planned to conduct the awareness programme on Farmers' Rights and protection of plant varieties during this year.
3	Mr.N.Sathia Moorthi, Assistant Engineer, Agricultural Engineering Department, Uthamapalayam	Popularize tractor drawn seed drill for sowing	We have planned to conduct two farmers training and one rural youth training programme on Tractor drawn seed drill and other agricultural implements.
4	Mr.P.Raju, Farmer, Ettapparajapuram	Give information on seed availability of traditional varieties and bio-inputs	We have planned to provide the information about seed and bio input availability status through website and farmers whatsapp group
5	Mr.P. Sockar Selvam, Ex. Panchayat President, Kamatchipuram	Develop permanent solution for wilt in bananas	We have been approved 1 FLD programme on Banana Wilt management during pre action meeting
		Take farmers as exposure visit to the Research Centre where the value addition is being done	We have planned to organize exposure visit to NRCB, Trichy during Banana festival.
		Conduct trainings on value addition in Moringa	We have planned to conduct two trainings on Value addition in Moringa during this year
7	Dr.V.Vinoth, Assistant Veterinary Doctor, Chinnamanur	Concentrate on feed and foddering management like preparation of concentrated feed and Azola cultivation	We have planned to conduct training on Feed and fodder cultivation and Azolla cultivation during this year
		Conduct training on rearing of local breeds	We have planned to conduct the Training programme on rearing of local breeds in collaboration with FTC, TANUVAS, Theni
		Conduct training on value addition in milk	We have planned to conduct training programme on value addition in Milk
8	Dr.S. Murugesan, Professor and Head,	Live stock programmes of KVK should be proportionately increased	we have planned to conduct various activities related to Livestock activities.

	Farmers Training Centre, TANUVAS, Theni		
		Utilize facilities available with FTC in KVK programmes	We have planned to organize training programme on Value addition in Milk and desi bird rearing by involving FTC, TANUVAS, Theni
9	Dr.S. Juliet Hepziba, Professor and Head, ARS, Vaigai dam	Conduct training programmes on seed production with all new technologies and commercial agriculture	We have planned to conduct seeds production on Millets and Pulses during this year
10	Dr.Ramajayam Devarajan, Principal Scientist (Horti.), ICAR-NRCB, Trichy	Popularize banana Sakthi, <i>Beavvaria bassiana</i> and <i>Trichoderma harzianum</i>	We have been approved one FLD programme on Banana Sakthi and banana Sakthi, <i>Beavvaria bassiana</i> and <i>Trichoderma harzianum</i>
		Conduct trainings on banana value added products like banana juice, dried fruits and banana wine and marketing of the products	We have planned to conduct training programme on Value addition in Banana and other fruits
		Identify banana growers to take up trail for 7 imported varieties available with NRCB	We have planned to identify farmers for planting new banana Varieties
		Take banana growers for exposure visit to NRCB, Trichy at the time of Farmers' Mela during August	We have planned to visit the NRCB, Trichy during Banana festival

10. PUBLICATIONS

Publications in journals

S.No	Authors	Year	Title	Journal
1				

Other publications

S.No	Item	Year	Authors	Title	Publisher
1	Books				
2	Book chapters / manuals				
3	Training manuals				
4	Conference, proceeding papers, popular articles, Bulletins, Short communications				
5	Technical bulletin/ Folders				
6	Reports				
7	Others				

Newsletter/Magazine

Name of News letter/Magazine	Frequency	No. of Copies printed for distribution
4	Quarterly	1000

3. Training/workshops/seminars etc details attended by KVK staff

Trainings attended in the relevant field of specialization (Mention Title, duration, Institution, location etc.)

Name of the staff	Title	Duration	Organized by
Mr.K.Ragu SMS (Horticulture)	Exposure on Water shed implementation- Maharashtra	25.04.2017- 02.05.2017	ATMA Theni, Tamil Nadu
Mrs. M.Ramya Siva Selvi SMS (Home Science)	10th National Conference of KVK's 2018- New Delhi	16.03.2018- 17.03.2018	ICAR, Govt. of India, New Delhi

11. 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.)

12. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL/HAILSTORM/COLD WAVES ETC

Introduction of alternate crops/ varieties

Crops/cultivars	Area (ha)	Extent of damage	Recovery of damage through KVK initiatives if any
Total			

Major area coverage under alternate crops/varieties

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

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
Total		

Animal health camps organised

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

Seed distribution in drought hit states

Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total			

Large scale adoption of resource conservation technologies

Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Paddy – CO 51 Paddy variety cultivation	100	250
Total		

Awareness campaign

	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
	1	29	2	50	20	340	1	350	2	80	2	60
Total	1	29	2	50	20	340	1	350	2	80	2	60

13. Awards/rewards by KVK and staff

Recognitions &Awards/Special attainments and Achievements of Practical Importance				
Recognitions & Awards (Team Award/individual				
Item of Recognition	Year	Awarding Organization National / International / Professional; Society	Individual/ collaborative	
Special Attainments & Achievements of Practical Importance (patents, technologies, varieties, products, concepts, methodologies etc.)				
Category	Title	Year	Individual/ Collaborative	Additional Details/Information

14. Details of sponsored projects/programmes implemented by KVK

S.No.	Title of the programme / project	Sponsoring agency	Objectives	Duration	Amount (Rs)
1.	Double pruning and single harvest in seedless Grapes with Integrated Good Agricultural Practices in Theni	National Bank for Agricultural and Rural Development (NABARD)	Double pruning and single harvest practices	One Year	6,50,000/-
2.	Drought mitigation in Sugarcane with integrated Good agricultural practices	National Bank for Agricultural and Rural Development (NABARD)	Drought mitigation in Sugarcane	One Year	8,04,000/-

Please attach detailed report of each project/programme separately

**** attached**

15. Success stories

Success story on Dates Cultivation in Theni District

Name : R.Baskaran
Address : S/o.R.Ramakrishnan,GopalapuramPost,Theni District.
Education : B.E.

Background

The farmer is hailing from Gopalapuram Village in Theni Block of Theni District. He developed 5 Acres of land holding with Dates Palm with adequate supply of irrigation water. This farmer cultivated Coconut, Cotton and Maize. But now he gives more importance to Dates Cultivation.

Initially he worked as Banker in Singapore and earned Rs.6,00,000/annum. He was not satisfied as a banker. He wanted to give importance to agriculture. He returned to his home village 4 years back.

At particular point of time, interventions of KVK made him aware and adopt the technologies of Dates cultivation. He interacted with our KVK for the past 3 years. He purchased seedlings from Palladam and established Dates orchard. Now he maintains 300 Dates palm over 5 acre of lands. Between the Dates palm, he intercropped with Thailand Guava and Caurina as Border crop for maintenance of Micro climate that influence the flowering and Fruit setting.

Normally the flowering starts at February-March and Fruit setting at July-August. Yield starts 3rd year onwards. About 20kg of Fruits produced from single tree on 3rd year onwards, on 8th year onwards 200-300 kg produced by single tree. He sold fresh dates @ Rs.200/kg in Theni and Kerala markets. For establishing Dates orchard in 1 acre, he spent Rs.1,00,000 and Rs.84,000/- for maintenance of orchard. From 3rd year onwards, he earned Rs.8,00,000 from his date palm.

High density Pomegranate Cultivation

Name : Mr.P.Venkatesan
Address : S/o.Perumal,ThenpalaniPost,Odaipatti.
Education : +2

Background:

The farmer is hailing from Thenpalani village in Theni District. He developed 6 acres of land holding with adequate supply of irrigation water. This farmer has cultivated Grapes and Pomegranate. But now he gives importance to Pomegranate cultivation.

In the grape cultivation, he faced lot of problems like salt water, Nematode and rain during maturity stage leading to fruit cracking and sour taste. So he could not take good yield. So he decided go for another crop cultivation.

The regular contact of him with KVK helped him to get skill upgradation trainings on various horticultural crops.

At particular point of time, intervention of KVK made him to aware and adopt the technologies of Pomegranate cultivation. He interacted with our KVK and he developed 0.5 acre Pomegranate field. As pomegranate is cultivated by him, he is able to get better market.

Initially he could realize only 1.5 tonnes/0.5 acre. Now after the 3rd year, he got 4 tonnes per 0.5 acre and he was able to take more yield and increased production and productivity.

The technologies for increasing quality production like enriched FYM application, Biofertilizer application, foliar application of Micronutrients and Organic Pest and Disease Management. Now he is selling the fruits to Kerala market and wants to expand to 2 more acres.

Success story on Onion Storage Structure

Name : S.V.Gopalsamy
Address : Ambasamudram, Theni District.
Education : 8th

Background:

The farmer is hailing from Ambasamudram in Theni Block in Theni District. He developed 4 Onion storage structure for storing Onion cultivated from his 20 acre land holding. But now he gives more importance to Onion storage.

In his initial farming, he cultivated Rice and Vegetables in irrigated condition and Cumbu at rainfed situation. He was not able to earn more profit from these crops. He wanted to become a business turned farmer. So he started Onion cultivation in small areas of land holding. After that, he cultivated 10 acres of Onion. At harvesting time, low market price for Onion reduced the profit. So he wanted to store and sell during the high market price time.

At particular point time, interventions of KVK made him aware and adopt the technologies on pre harvest spray for long term storage and low cost Onion storage structure. He interacted with KVK for the past 3 years. He established Onion storage structures with the interaction of our KVK. He has given more thrust for utilizing locally available bamboo, sorghum Stover and wild grasses for construction of structure for storing of Onion to take more advantages to get better market price.

Onion storage structure is 80ft length, 3 ft width with the height of 6ft. In this storage structure, he stores 7,500kg of Onion.

At the time of harvesting, price for Onion is Rs.15/kg due to low demand. After two months cost of Onion is Rs.20-25/kg. Average price increment is Rs. 2-7/kg/month.

Promotion of Poly house in Theni District for higher productivity

Name : Mr.E.Navaneetha Krishnan
Address : S/o.Ellappan,Nagalapuram,Theni District.
Education : +2

Background:

The farmer is hailing from Nagalapuram village in Theni Taluk of Theni District. He developed 10 acres of land with adequate supply of irrigation water. The farmer has cultivated Muskmelon, Brinjal, Banana, Cucumber and Guava. But now he gives importance to Cucumber under poly house cultivation because of heavy demand in market from Kerala and Theni District.

Initially, Cucumber cultivation was done in open field cultivation. He could not take up the lead in Cucumber cultivation because of lower production and yield and incidence of Pest and Diseases like Fruit Fly, Sucking Pest, Gummy Stem blight, Downy Mildew and Powdery Mildew. Hence he could not realize the profit margin in Cucumber cultivation. In subsequent years of Cucumber cultivation pulled him down economically.

Cendect KVK in collaboration with State Horticulture Department implemented Perimetro Vegetable development scheme for formation of Farmers Interest Groups. Under the leadership of Mr.Navaneetha Krishnan, we have formed a FIG with 20 farmers for promotion of vegetable cultivation. During the regular meetings of FIG, he has been trained on IPM, Ecological Engineering Organic farming and production of organic inputs. His success on organic Brinjal cultivation was broadcasted in Doordarshan Ponvilaiyum Bhoomi Programme.

At particular point of time, interventions of KVK made him to aware and adopt the technologies of Poly house cultivation. Then our KVK linked with National Horticultural Mission (NHM) schemes. That schemes provided 60% subsidies for poly house cultivation. Then he developed poly house with Aero Dynamic Structure in an area of 25 cents. He has been taken exposure visit to already promoted poly house in Gudalur maintained by Mr.Mahesh.

In the poly house cultivation, the Cucumber yield was substantial and ultimately made profit margin increased economically. In open field condition, he could realize only 3 tonnes/300 plants. Now after the poly house cultivation he got of 10 tonnes/1800 plants and he was able to take more yield and increased production and productivity. Because of this, the pesticide spray was totally reduced and he is able to supply pesticide free Cucumber.

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

Nil/-

15. C. 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	Guava	Five leaf extract	Pest control

16. IMPACT

16.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)
Coconut tree climbing	120	40	1000	4500

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Integrated Crop management in Groundnut	35	40	23740	34000

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

**16.B. Cases of large scale adoption
(Please furnish detailed information for each case)**

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

17. LINKAGES

17.A. Functional linkage with different organizations

Name of organization	Nature of linkage
Dept. of Agriculture	Conducting Training programmes and Demonstration. Received assistance for getting seeds/critical inputs for FLD Programme. Participation in department training programme as resource person.
Dept. of Horticulture	Received Guidance and Assistance for Conducting Training Programmes. Received and supply of Quality Seedlings to Farmers
Dept. of Animal Husbandry	Creating awareness about mixed fodder cultivation
Horticultural College and Research Institute, Periyakulam	Received Guidance and Assistance for Conducting Training Programmes. Guidance to students for their Rural Agricultural Work Experience programme
Agricultural College and Research Institute, Madurai	Guidance to students for their Rural Agricultural Work Experience programme
Nehru Yuva Kendra, Theni	Creating awareness among farmers about scientific farming through field level NYK volunteers
NGO Network	Creating awareness about Drought Mitigation and Sustainable Agriculture

All India Radio, Madurai	Broadcasting of Feedback/Interviews of KVK beneficiary Farmers for Adopting New Technologies
News Papers	Coverage of KVK activities
Tamil Nadu Agricultural University	Received Latest Technologies for Conducting Training Programmes. Getting Seeds/Critical Inputs for Conducting FLD/OFT Programmes
NRCB	Received Latest Technologies for Popularization of farmers. Getting Quality Improved Critical Inputs for Conducting OFT Programme
Cotton Corporation of India	Jointly Organised Trainings and Demonstration
NABARD	Conducting Capacity Building training to Grapes Growers
FTC, TANUVAS, Theni	Received Critical Inputs for conducting FLD Programme
Joint Action for Sustainable Livelihood (JASuL)	Training extension workers on Climate Change Mitigation Strategies
Vazhnthu Kattuvom Thittam,Theni	Organizing Training Programmes
ATMA	Conducting Farmers Field School Programmes, Capacity Building Training for ATMA Functionaries
Coconut Development Board, Chennai	Conducted Friends of Coconut Tree Trainings and Demonstration
Coffee Board	Conducting training to SHG members

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

17.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.)

Technical Feedback on the demonstrated technologies

S. No	Crop . tech demonstrated	Feed Back
1	Paddy	Leaf folder incidence high
2	Maize	Un uniform maturity
3	Cumbu	Downy mildew disease incidence high
4	Samai	Less no of panicles compare to other variety
5	Cotton	Low germination percentage
6	Sorghum	Lodging occur
7	Mulberry	More leaf yield
8	Marigold	Small flower size
9	Guava	Root grub incidence was high
10	Jasmine	Lees no of flower buds due to redmites
11	French beans	No of pods less
12	Banana	Poor bunching ability
13	Banana	Poor bunching ability
14	Millets	Wastage high
15	Tamarind	High cost of operation

Farmers' reactions on specific technologies

S. No	Crop	Feed Back
1	Paddy	Non lodging and shorter duration variety
2	Maize	High yielding and shelling percentage
3	Cumbu	More no of tillers
4	Samai	High drought withstand ability
5	Cotton	More number of bolls
6	Sorghum	Fodder yield more than other varieties
7	Mulberry	
8	Marigold	Good market attraction
9	Guava	Nematode incidence very low
10	Jasmine	Nematode incidence was low
11	French beans	High yield
12	Banana	Good withstand ability
13	Banana	Wilt incidence very low
14	Goat	
15	Millets	Time saving and drudgery reduction
16	Tamarind	Time saving and drudgery reduction

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	17		421	
2	Farmers Training	24		356	
3	Media coverage	17		47	
4	Training for extension functionaries	1		30	