PROFORMA FOR PREPARATION OF ANNUAL REPORT (April 2019-March 2020)

1. GENERAL INFORMATION ABOUT THE KVK

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

Name of the KVK	Address	Telephone		E mail
ICAR KVK, Theni	ICAR KRISHI VIGYAN	Office	FAX	cendectkvk@rediffmail.com
	KENDRA, THENI	04546247564	04546247564	cendect@gmail.com
	89-A/B-3, West Street,			
	Kamatchipuram			
	(S.O),Theni District,			
	Tamilnadu-625			

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

Name of the Host	Address	Telephone		E mail
Organization		Office	FAX	
Centre for Development	89-A/B-3, West	04546247564	04546247564	cendectkvk@rediffmail.com
and Communication TRust	Street,Kamatchipuram			cendect@gmail.com
	(S.O),Theni District,			
	Tamilnadu-625 520.			

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

Name	Residential Address	Telephone / Contact				
		Residence	Mobile	Email		
Dr. S. Thirumurugan Ph.D.,	No,1 Vaigai Quarters,	9585142666	9585142666	haithirus@gmail.com		
	Kamatchipuram					
	(S.O),Theni District,					
	Tamilnadu-625 520.					

1.4. Year of sanction: 1994

1.5. Staff Position (as on 31th March, 2020)

S1 N o.	Sanctio ned post	Name of the incumbent	Designation (eg.SMS)	Discipli ne (eg.Agr onomy)	Edn. Qualificati on (eg. M.Sc.(Agri)-	Speciali zation (if applica ble) eg. Agrono my	Pay Sca le (Rs	Pre sent basi c (Rs.)	Date of joinin g	Permanent/ Temporary	Categor y (SC/ST /OBC/ Others)
1	Program me Coordin ator	Dr.S.Thirum urugan	Senior Scientist and Head	Soil Science	M.Sc., (Agri.,)., Ph.D.,	Soil Science	374 00- 670 00	900 0	25.05. 2018	Permanent	OBC
2	Subject Matter Speciali st	Mr.P.Mahes waran	SMS	Agrono my	M.Sc., (Agri)	Agrono my	156 00- 391 00	540 0	27.01. 2017	Permanent	OBC
3	Subject Matter Speciali st	Mr. M.Arun Raj	SMS	Soil Science	M.Sc., (Agri)	Soil Science	156 00- 391 00	540 0	25.05. 2018	Permanent	OBC
4	Subject Matter Speciali st	Ms.V.Sumith a	SMS	Plant protecti on	M.Sc., (Agri)	Plant protecti on	156 00- 391 00	540 0	2.07.2 018	Permanent	OBC
5	Subject Matter Speciali st	Dr. G. Rajaraman	SMS	Horticul ture	M.Sc.,(Hor ti)., Pd.D	Horticu lture	156 00- 391 00	540 0	26.12. 2019	Permanent	OBC
6	Subject Matter Speciali	Vacant	SMS	-	-	-	-	-		-	-

	st										
7	Subject Matter Speciali st	Mrs.M.Ramy a Siva Selvi	SMS	Home science	M.Sc.,(Ho me Science)., M.Phil.,	Home science	156 00- 391 00	540 0	25.01. 2017	Permanent	OBC
8	Program me Assistan t	Ms.S.Kalaiv ani	Lab technician	Agricult ure	B.Sc., (Agri)	Agricul ture	930 0- 348 00	420 0	31.05. 2018	Permanent	OBC
9	Comput er Program mer	Mrs.G.Winm athi	Computer Programme r	Comput er	MCA.,ME d.,Mphil.,	Comput er	930 0- 348 00	420	06.10. 2018	Permanent	ОВС
1 0	Farm Manage r	Mr.N.Raja	Farm Manager	Horticul ture	B.Sc., (Horti)	Horticu lture	930 0- 348 00	420 0	14.09. 2000	Permanent	OBC
1	Account ant / Superint endent	Mr.R.Pachai kannan	Accountant / Superintend ent				930 0- 348 00	420	01.03. 1995	Permanent	OBC
1 2	Stenogr apher	Mrs.M. Soundariya	Stenograph er				520 0- 202 00	240	17.06. 2019	Permanent	OBC
1 3	Driver	Mr.M.Patcha ikannan	Driver				520 0- 202 00	190 0	01.01. 2010	Permanent	OBC
1 4	Driver	Mr.A.Arocki yaJohnson	Driver				520 0- 202 00	190 0	01.01. 2017	Permanent	OBC
1 5	Supporti ng staff	Mr.K. Shankar Nehru	Supporting staff				520 0- 202 00	180 0	01.06. 2019	Permanent	OBC
1 6	Supporti ng staff	Mrs. K. Malarkodi	Supporting staff				440 0- 744 0	130	01.06. 2019	Permanent	OBC

1.6. Total land with KVK (in ha) (Consolidated figure):

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 (specify)	10.79 ha

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Infrastructural Development: A) Buildings 1.7.

S.No.	Name of	Source			Sta	ge				
	building	of	C	Complete			Incomplete			
		funding	CompletionDate	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area(Sq.m)	Status of construction (Completed/ in progress/ to be initiated)		
1.	Administrative Building	ICAR	3/30/1996	483.5	2135800	-	-	-		
2.	Farmers Hostel	ICAR	12/25/2002	312.0	1749596	-	-	-		
3.	Staff Quarters (No.)	ICAR	2/11/1997	260.0	2930577	-	-	-		
4.	Demonstration Units	ICAR	3/20/1999	0	300000	-	-	-		
5.	Fencing	ICAR	3/21/1996	0	100000	-	-	-		
6.	Sericulture Unit	ICAR	3/31/2012	160	400000	-	-	-		
7.	Irrigation System	ICAR	3/31/2012	0	300000	-	-	-		
8.	Demonstration Unit- Dairy	ICAR	3/30/1996	0	100000	-	-	-		
9.	Rain Water harvesting system	-	-	-	-	-	-	-		
10.	Threshing floor	-	-	=	-	-	-	-		
11.	Farm godown	=	-	-	-	-	-	-		
12.	Shed (Farm equipment)	-	-	-	-	-	-	-		

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	23400	Need replacement
Bolero	2010	6,06,153	273800	Need replacement

C) Equipment & 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

Sl.No.	Date	No of	Salient Recommendations
		Participants	
1.	07.12.2019	38	Mango high density planting, animal health screening, fartmers producer organization, Weed management in Banana, Post harvest management, Organic input preparation, M-KISSAN, ITC tools, Millets cultivation, Animal husbandry activities, solar pumbs. Modern plant protection activities, Demo fields and crop cafeteria, youtube channel, Innovations in DFI villages

S.No.	Name and Address						
1.	Dr.P.Patchaimal, ICAR KVK,CENDECT, Theni						
2.	Dr.J.V.Prasad, Principal Scientist, ATARI, Zone X, Hyderabad						
3.	Dr. S. Thirumurgan, Senior Scientist & Head, ICAR KVK, CENDECT, Theni						
4.	Mr. P. Baskaran, AIR & DD News, Theni District.						
5.	Mr. G. Pari ,Farmer, K. M Patty, Theni						
6.	Mr. P. Bose , Family Counselor, Theni						
7.	Mr. P. RameshPrabhu Farmer, Muliyampatti.						
8.	Mrs. M. Backiyalakshmi, Women farmer, Mullaiyampatti.						
9.	Mrs. M. Jenifer – District co- ordinator, Collectorate.						
10.	Mr. Karthiraj , ADH, Chinnamanur.						

Mr. S. Arumugam, Asst.Dir Sericulture, Theni
Mr.Pon Dhanapalan, Programme Executor, All India Radio, Madurai
Mr. M. Viswanathan Junior Inspectorof Sericulture
Dr. S. Sivaseelan, Prof & Head, VUTDC, Madurai
Mrs. P. Bindu Women farmer,Bomminayakkanpatti
Mrs. R. Selvarani Women farmer, Meenatchipuram
Mr. R. Kannan, Vivegam, Odaipatti
Mr. R. Rajesh Farmer, Odaipatti
Dr. S. Sarashwathi, Prof & Head, GRS, Royappanpatti.
Dr. S. Juliet Hepziba, Prof & Head, ARS, Vaigaidam
Mr. R. Ravi kumar, Prof & Head, TNAU, Coimbatore
Dr. K.N. Shiva, Principal Scientist, ICAR- NRCB, Trichy
Mrs. L. Bhuvaneshwari, AGM, NABARD, Theni
Dr. T. Arumugam, Dean,HC& RI, Periyakulam
Mr. S. Manickam Programme Exicutive, AIR, Madurai
Mr. Azhagu Murugan, F & H Section, AIR, Madurai.
Mr. G. Vikram Siddartha, Programme Coordinator, Pay Agri. Ltd.,
Dr. G. J. Janavi, Prof. & Head, HC&RI, Periyakulam.
Mrs. K. Muthulakshmi, DDA(FTC), Theni
Mr. M.Pandiyan, President, Theni District Farmers Association Leader
Mr. P.Venkadesan, Progressive Farmer, Thenpalani
Mr. V. Venkatesan, Forester, DFO, Theni
Mr. K.V.M .Rajkumar, MD, Pay Agri. P. Ltd., Theni
Mr. T. Sadayandi, STEEL Trust, Theni
Prof. L. Lakshmanan, President, Aundipatty.
Mr. P.Sockar Selvam, Progressive Farmer, Kamatchipuram
Mr.S. Saeed Muhamad , Farmer, Theni
Mr. K. Narayanasamy President, TDBGA, Seepalakottai.

PROCEEDINGS OF XXI SCIENTIFIC ADVISORY COMMITTEE (SAC) MEETING HELD ON 07.12.2019.

The Inaugural address was given by Dr.K.V.Prasad Principal Scientist, Atari, Hyderabad. In his inaugural address he explained the importance of SAC Meeting that the SAC Meeting is useful to fine tune the activities and to prepare the action plan of the KVK for the coming year. He also indicate that 35% of the programme fund allocated for the OFT, 15% for FLD and 25% for the training and extension activities.

During the special address given by Dr. T. Arumugam Dean, HC & RI, Periyakulam mentioned the Role of KVK that KVK should estimate new technologies to farmers and to take the needs of farmers to University

After the special address Dr.S. Thirumurugan, Senior Scientist and Hea d, ICAR KVK, CENDECT presented the action taken on the suggestions given by the SAC members during XX SAC held on 28.11.2018 this was followed by the presentation of OFT and FLD conducted during last year by Mr. P. Maheswaran SMS (Agronomy)., Mr. M. Arun Raj SMS (Soil Science)., Mrs. M. Ramya Siva Selvi SMS (Home Science) and Ms. V. Sumitha SMS (Plant Protection). This is followed by the suggestions from SAC members.

Mr. Narayana Samy President, Theni(Dt), Banana growers Association suggested to develop technologies on organic control measures for Banana leaf spot, wilt and conduct trainings on Pre and Post Harvest technologies for Banana export.

Dr. K. N. Shiva, Principal Scientist ,ICAR- NRCB, Trichy suggested to conduct programmes on Banana value addition in the following years. He also suggested to conduct the training on value added products from waste Banana fruits and Perishable goods.

Dr. Ravikumar Theodore, Professor and Head, Training Division, Directorate of Extension and Evaluation, TNAU Coimbatore. He advised to focus on major serious problem in subject of Fall Army worm, rugose white fly and nematode problem in tamil nadu. To create awareness about this problem management among the farmers. Also to conduct Training about this problem management and suggested to conduct FLD on Mango ultra high during plantation and TNAU fruity fresh to enhance self life and to conduct Training programme on country Birds rearing, hydrophoenix and how to register in Electronic National Conference and to conduct awareness programme on Marketing and Parthenium awareness. He also suggested to oraganise Farmers for FPO Formation and to give consultancy service for the FPO. He also suggested to develop models on Bamboo based Agro Forestry, protected cultivation, Hydrophonix, Crop cafeteria. HE also suggested the post Training Schedules, contact persons, Farmers Database in the Website and to updating of District profile and Newsletter. Also suggested to conduct Field day programmes which is important and documentation of KVK activities. To make use the Media like DD, Air India, Internet, YouTube channel and WhatsApp group. He also suggested to develop linkage with Line departments. And to attend National Seminar by the KVK staff. Opportunity should be given to staff for Innovation.

Dr. J. V. Prasad, Principal Scientist, ATARI, Hyderabad suggested that each house holder should be covered by at least one innovation in the DFI village and to develop functional Demo units and KVK especially about skill oriented and every activities of the KVK should develop some money. HE also suggested to explain all government schemes in every Training programmes. The Veterinary and Horticulture programmes should included in the Action plan.

Mr. Pon Dhanapalan Farm Radio officer, Programme executive, Air India, Madurai suggested to conduct Training programme on use of Uzhavar Seyali and Poly House cultivation and suggested to Soil health card for small and marginal farmers. He also suggested to develop technologies for Brinjal, onion, Grapes and Pulses cultivation throughout the year.

Dr. S. Sivaseelan, Professor and Head VNTDC, Madurai suggested to include veterinary activities in the next year programmes and to encourage farmers for Dairy, Goat and Poultry farming through trainings. He also suggested that the KVK can make use of the mobile veterinary Lab services available with VUTDC and Health Screening animal facilities.

Dr. T. Arumugam, Dean, HC & RI, Periyakulam, suggested to update all the information in the website and to conduct training programmes on marketing especially to get premium price for the products. He also suggested to conduct trainings on Nursery technology, vegetable seed production and entrepreneur development. HE also advised to document the success stories.

Mrs. K. Muthulakshmi, Deputy Director of Agriculture(FTC) Suggested to make use of ATMA schemes available for the need of farmers.

After the discussion, vote of thanks was given by Dr. S. Thirumurugan, Senior Scientist and Head, ICAR KVK, CENDECT, and the meeting came to an end with National Anthem...

^{*} Attach a copy of SAC proceedings along with list of participants

2. DETAILS OF DISTRICT (2019-20)

2.0. Operational jurisdiction of KVKs

District	New districts governed by the KVK after division	Tehsils and/or Mandals under the KVKs
	of the district, if applicable	jurisdiction
Theni	-	8-Theni, Chinnamanur, uthamapalayam,
		Cumbum, Bodinayakkanur, Andipatty,
		periyakulam and kadamalaikundu

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

S. No	Farming system/enterprise
The total geographical area of	Food crops occupy 38.9% of total gross area cultivated. About 8.4% of area comes under
the district is 288923Ha.Forest	coconut, which is steadily increasing year by year. Horticultural crops occupy 25.1% of area
occupies 35.9% of total area. Net	due to favorable agro climatic condition and assured market. Oilseeds, Cotton and Sugarcane
area cultivated occupies 40.7%.	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)

S. No	Agro-climatic Zone	Characteristics
1.	Southern Zone. Based on the rainfall distribution, irrigation pattern,	Average Annual rainfall 857 mm, Annual
	soil characteristics, cropping pattern and physical, ecological and	potential evapo transpiration -1825
	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.	

2.3. Soil types

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

	U
drained with good	
permeability.	

2.4. Area, Production and Productivity of major crops cultivated in the district (or the jurisdiction as the case may be) for 2019-20

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
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

2.5. Weather data

Month	Rainfall (mm)	Temp(Max)	Temp (Min)	Relative Humidity (%)
April 19	86	33.4	24.3	56.5
May 19	69	33.1	24.1	55.7
June 19	34	38.7	28.7	61.5
July 19	55	35.1	27.6	69.0
August 19	46	33.6	25.6	66.5
September 19	82	35.3	25.1	74.8
October 19	263	34.1	23.9	70.0
November 19	148	36.1	23.9	84.0
December 19	63	34.1	19.8	67.7
January 20	16	35.8	20.8	56.4
February 20	22	32.7	22.1	57.7
March 20	45	37.9	23.4	61.3

2.7. Details of Adopted Villages (2019-20)

Sl. no	Mandal/taluk	Name of the block	Name of the village	Year of adoption	Major crops & enterprise	Major problem identified	Identified thrust area
1	Theni	Theni	Vayelpatti	2018	Tuberose	Incidence of nematode in tuberose cultivation in Prajwal	OFT, Training, Extension Activities

					1	T .	9
						variety leading to yield loss of 15% (1.8 t/ha) with the net loss of Rs. 90000/ha. Average yield in the village 12 t/ha	
2	Theni	Theni	Srirengapuram	2017	Castor	Low yield (900 kg/ha) due to non availability of perennial high yielding variety in Castor and Non availability of high yielding and high branching Variety	FLD, Training, Extension activities
3	Theni	Theni	Vayelpatti	2019	Maize	High incidence of Fall Army Worm Attack 50 – 80 % yield loss in field and lack of awareness on IPM & BIPM	OFT, Training, Extension activities
4	Theni	Theni	Balakrishnapuram	2017	Bhendi	Non availability of improved hybrid and low yield (130 q/ha) in cultivation of Mahyco-10 hybrid	Training, Extension Activities
5	Uthamapalayam	Chinnamanur	Vembakottai	2019	Davana	Lack of awareness on new variety	FLD, Training, Extension Activities
6	Uthamapalayam	Chinnamanur	Thenpalani	2017	Grapes	Fruit cracking during rainy season and TSS content reduced due to triple harvests per year	FLD, Training, Extension Activities
7	Uthamapalayam	Chinnamanur	Chinnaovalapuram	2017	Ground nut	Yield loss upto 20 % due to infestation of white grub pest	Training, Extension Activities
8	Uthamapalayam	Chinnamanur	Thenpalani	2018	Grapes	Lack of awareness of wine variety	Training, Extension Activities
9	Uthamapalayam	Chinnamanur	Kuchanur	2018	Banana	Economic loss (20%) due to	Training, Extension

							10
						post harvest	Activities
						losses and	
						lack of	
						knowledge	
						about value	
						addition in	
		C4 .		•••		Banana	
10	Uthamapalayam	Chinnamanur	Seepalakottai	2015	Organic	Lack of	Training,
					farming	knowledge	Extension
						about organic	Activities
						farming and	
						lack of	
						knowledge	
						about organic	
						input	
11	I I4h	Chianaman	T Circilianian	2017	C:		Tasiaina
11	Uthamapalayam	Chinnamanur	T. Sindhalaichery	2017	Samai	Non	Training,
						availability of	Extension
						improved	Activities
						variety and	
						low yield (4q	
						/ha) in	
						cultivation of	
						local variety	
12	Lithamanalaria	Lithamamalarim	Vaalagindalajahar	2017	Guava	•	Trainina
12	Uthamapalayam	Uthamapalaym	Keelasindalaichery	201/	Guava	Reduction in	Training,
						yield by 20-30	Extension
						% in an area	activities
						of 100 ha	
						among 250	
						farmers	
13	Uthamapalayam	Uthamapalayam	Hanumandhanpatti	2017	Banana	Considerable	FLD,
10	Cinamaparayam	Cinamaparayam	Tunumumpum	2017	Bunana	yield reduction	Training,
							Extension
						(50 q/ha) due	
						to panama wilt	Activities
						disease and	
						lack of	
						awareness on	
						the use of bio-	
						control agents	
						in disease	
1.4	T T. 1	TT.1 1	TT	2010	T	management	ELD
14	Uthamapalayam	Uthamapalayam	U ammapatti	2019	Tomato	Yield loss	FLD,
						upto 20 % due	Training,
						to imbalanced	Extension
						use of	Activities
						fertilizer and	
						poor fruit set	
						and growth	
						due to nutrient	
4 =	TT(1	T T/1	77 . 1 '1	2010	D 11	deficiency	ELD. E
15	Uthamapalayam	Uthamapalayam	Kokilapuram	2019	Paddy	Low yield	FLD Training,
						recorded in	Extension
						conventional	Activities
						famers	
						practice (5.	
						t/ha) and non	
						availability of	
						High yielding,	
						short duration	
						variety for in	
						Cumbum	
						Valley in	
						Theni district	
16	Uthamapalayam	Uthamapalayam	M Sindalaicheri	2019	_	Yield loss due	FLD Training,
10	Cinamapaiayam	- cinamaparayam	141 MildulaiCilCil	2017	Tomato	to severe	Extension
				1]	IO SCACIE	PVICIPIOII

		T			1	1	11
						incidence of spotted wilt disease	Activities
17	Uthamapalayam	Uthamapalayam	T Pomminayakampatti	2019	Guava	Post harvest Loss (30%) and Lack of knowledge about value added products from Guava	Training, Extension activities
18	Uthamapalayam	Uthamapalayam	Kombai	2018	Ground nut	Low yield (1800 kg/ha) Incidence of wilt and Tikka leaf spot diseases	OFT,Training, Extension Activities
19	Periyakulam	Periyakulam	Vadugapatti	2018	Sugarcane	Low yield (90 t/ha) and income (Rs.152750) due to non utilization of natural resource in Sugarcane cropping system.	OFT, Training, Extension Activities
20	Periyakulam	Periyakulam	Thamaraikulam	2019	Paddy	Higher cost of cultivation due to more labour cost, low no of productive tillers (18) due to lack of awareness of about improved planting methods	OFT, Training, Extension Activities
21	Periyakulam	Periyakulam	Jeyamangalam	2019	Sugarcane	Lack of awareness about recycling of sugarcane trash	Training, Extension Activities
22	Periyakulam	Periyakulam	Murugamalai	2019	Mango	Shedding of buds and flowers, Heavy yield loss due to poor fruit setting.	Training, Extension Activities
23	Periyakulam	Periyakulam	E Pudhupatti	2018	Mango	Yield reduction (20 %) due to improper nutrient management	FLD, Training, Extension Activities
24	Periyakulam	Periyakulam	Meenachipuram	2019	Tomato	Low Market Price (Rs.2/kg) during peak	Training, Extension Activity

Section Sect					_	T	T	12
25 Periyakulam								
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Periyakulam								
Bodinayakkanur Bodinayakkanur Dharmathampatti 2019 Sugarcane Low yield and Incidence of internodes poor flower quality leads to less market preference FLD. Training, Extension Activities		D : 1 1	D : 1 1	X	2010	X 7 1		
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26 Bodinayakkanur Bodinayakkanur Bodinayakkanur Dharmathampati 2019 Sugurcanc Low yield and flowering during winter December month and flowering during winter decivities of internodes and flowering during winter place of internodes internodes internodes to loss market preference will be preference with the preference preference will be preference with the preference will be preference with th								
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Bodinayakkanur Bodi		-	-				upto 20 % due	
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Sumflower Cluster FLD, Training, Extension Sumplement Sumpleme	29	Bodinayakkanur	Bodinayakkanur	Silamalai,	2017	Groundnut		· ·
30 Bodinayakkanur Bodinayakkanur Dombucherry, Batharakalipuram Cumbum Gudalore Cluster FLD, Training, Extension Activities								
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31 Uthamapalayam Cumbum Gudalore 2019 Black gram (400 kg/ha) due to non availability of high yielding variety and Cluster FLD, Training, Extension Activities								
gram (400 kg /ha) Training, due to non availability of high yielding variety and								
due to non availability of high yielding variety and	31	Uthamapalayam	Cumbum	Gudalore	2019	Black		· ·
availability of high yielding variety and						gram		
high yielding variety and								
variety and								Activities
Yellow							Yellow	

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						Mosaic Incidence.	
32	Uthamapalayam	Cumbum	KM Patti	2018	Paddy	Farmers getting 30- 50% yield loss due to	OFT, Training, Extension Activities
33	Uthamapalayam	Cumbum	Karunakkamuthampatti	2019	Pepper	improper fertilizer management Lack of	Training,
33	Otnamaparayam	Cumbum	Karunakkamumampatu	2019	Pepper	knowledge about pepper seedling production	Extension Activities
34	Uthamapalayam	Cumbum	Hanumandhampatti	2017	Banana	Yield loss (20 %) due to improper nutrient management and Micronutrient deficiency	Training, Extension Activities
35	Andipatty	Andipatty	Bodidhasampatti	2018	Tomato	Farmers getting low yield due to the transplanting of unhealthy seedlings	OFT, Training, Extension Activities
36	Andipatty	Andipatty	Mullayampatti	2017	Moringa	The pods are available in a very meager number during November to February owing to the season which coincides with heavy rainfall, low temperature which 37leads to the drop in flo38wers leading to poor 39pod set which is considered to be the off season period of the year.	FLD, Training, Extension Activities
37	Andipatty	Andipatty	Amchiyapuram	2019	Paddy	Farmers getting low yield (5.7 q/ha) due non availability of improved and non availability of highly suitable variety for Theni District.	FLD, Training, Extension Activities
38	Andipatty	Andipatty	Mullayampatti	2017	Cotton	Farmers getting low	FLD, Training,

							14
						yield (5.7 q/ha) due to drought incidence	Extension Activities
39	Andipatty	Andipatty	Kanniyapillayampatti	2017	Onion	Yield loss upto 20 % due to severe incidence of purple blotch and aggravated by thrips incidence	FLD, Training, Extension Activities
40	Andipatty	Andipatty	Mullayampatti	2017	Pulses	More Labour required for grading and winnowing of pulses, Time Consuming process.	FLD, Training, Extension Activities Extension Activities
41	Andipatty	Andipatty	Mullayampatti	2017	Nutrition Garden	Non-availability of pesticide free vegetables at low cost. Lack of knowledge about the importance of Nutrition Garden	FLD, Training, Extension Activities
42	Andipatty	Andipatty	Balakombai, T.Alagapuri	2018	Ground nut	Non availability of improved varieties of groundnut and lack of knowledge about Integrated Crop Management.	Cluster FLD, Training, Extension Activities
43	Andipatty	Andipatty	Sitharpatti	2019	Sesame	Low yield (3.4q/ha) due to cultivation of low yield varieties and improper nutrient management	Cluster FLD, Training, Extension Activities
44	Andipatty	Andipatty	Mullayampatti	2017	Black gram	Low yield (3.6q/ha) due to yellow mosaic virus incidence and improper nutrient management practices	Cluster FLD, Training, Extension Activities
45	Andipatty	Andipatty	Pitchampatti	2017	Green gram	Low yield (350 kg /ha) due to non	Cluster FLD, Training, Extension

		Г				T	15
						availability of high yielding variety and incidence of yellow mosaic virus	Activities
46	Andipatty	Andipatty	Amchiyapuram	2019	Green gram	Low yield (340 kg /ha) due to non availability of high yielding variety and incidence of yellow mosaic virus	Cluster FLD, Training, Extension Activities
47	Andipatty	Andipatty	G Usilapatti	2018	Cashew	Cashew apples (90%) are thrown away after taking the nuts. Lack of Knowledge about the nutritional value and Health benefits of Cashew Apple	Training, Extension Activities
48	Andipatty	Andipatty	Bodidhasampatti	2018	Tomato	Non availability of improved hybrid and lack of knowledge about Integrated Crop Management in Tomato	Training, Extension Activities
49	Andipatty	Andipatty	Kathirnarasingapuram	2018	Jasmine	Root rot and nematode incidence (40- 50 %) resulting in low yield, Poor micronutrient management	Training, Extension Activities
50	Andipatty	Andipatty	Kanniyapillayampatti	2017	Ragi	Low market price (Rs.25/kg) during peak harvest period in an area of 100 ha among 250 farmers and Unaware of health 51benefits of ragi	Training, Extension Activities
51	Andipatty	Andipatty	Seepalakottai	2017	Livestock	Mortality upto 10 % in adults and 30% in kids due to infectious	Training, Extension Activities

							16
52	Andipatty	Andipatty	Sithayagoundenpatti	2017	Livestock	diseases like neonatal viral enteritis, Entero toxemia, 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 motality in kids High somatic cell count, incidence of subclinical mastitis, Poor	Training, Extension Activities
53	Andipatty	Andipatty	Sithayagoundenpatti	2017	IFS	self life of milk Non availability of quality fodders and non cultivation of new variety under mixed fodder condition Mineral deficiency, Low milk yield, infertility in dairy cows Lack of knowledge on feeding practices for dairy cattle	IFS, Training, Extension activities

Crop/Enterprise	Thrust area
Paddy	Varietal evaluation and mechanization
Maize	Integrated pest management
Bhendi	Varietal evaluation
Onion	Integrated crop Management, Integrated pest management
Redgram	Integrated pest management, varietal evaluation
Black gram	Varietal evaluation and Pest management
Grapes	Integrated crop Management
Banana	Resource conservation technology
Banana	Crop geometry 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

2.9. Salient Achievements of (April 2019-March, 2020) (Mandated activities/ Projects)

S.No	Activity	Target	Achievement
1.	Technologies Assessed and refined(No.)	10	8
2.	On-farm trials conducted (No.)	50	40
3.	Frontline demonstrations conducted (No.)	19	16
4.	Farmers trained (in Lakh)	1200	1464
5.	Extension Personnel trained (No.)	4	4
6.	Participants in extension activities (in Lakh)	100	97
7.	Production of Seed (in Quintal)	24.5	14.5
8.	Planting material produced (in Lakh)	29750	16000
9.	Live-stock strains and finger lings produced (in Lakh)	0	0
10.	Soil, Water, plant, manures samples tested (in Lakh)	800	669
11.	Mobile agro-advisory provided to farmers (in Lakh)	30000	20467
12.	No.of Soil Health Cards issued by Mini Soil Testing Kits (No.)	0	0

13. No.of Soil Health Cards issued by Traditional Laboratory (No.)	0 6	669
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Give Salient Achievements by KVK during the year in bullet points:

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2019-20

OFT (Technology Assessment)

Number	of technologies	Total no. of Trials		
Targets	Achievement	Targets	Achievement	
10	8	50	40	

FLD (crop/enterprise/CFLDs)

ĺ	No of Demonstrations		Ar	ea in ha	Number of Farmers		
I	Targets	Achievement	Targets	Achievement	Targets	Achievement	
Ī	19	16	87.5	62.5	185	155	

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)

Nun	Number of Participants			
Clientele	Targets Achievement		Targets	Achievemen
				t
Farmers	60	64	1200	1464
Rural youth	8	8	200	201
Extn.Functionari	4	4	100	97
es				

Extension Activities

Numbe	r of activities	Number of participants			
Targets	Achievement	Targets	Achievement		
2365	1751	22160	12317		

Seed Production (Qtl.)

Target	Achievement	Distributed to no. of farmers
24.5	14.5	141

Planting material (Nos.)

Target	Achievement	Distributed to no. of farmers
29750	16000	37

3.b. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs (Insert Rows wherever required)

Thematic areas	Crop	Name of the technology assessed	Source of technology with year	No. of trials	No. of farm ers
		Assessment of organic nutrient management in Rice	TNAU		
Integrated Nutrient Management		cultivation (CO51)	2014		
Varietal Evaluation	Groun	Assessment of suitable Groundnut variety for Theni		5	5
	dnut	District			
			TNAU, 2016		
		TO 1: VRI 8	TNAU, 2019		

		TO 2: BSR 2			
	Bhendi	Assessment of new high yielding Bhendi hybrids in Theni District	TNAU , IIHR and 2017	5	5
Integrated Pest Management					
Integrated Crop Management	Maize	Assessment of Management modules against Fall Army Worm(Spodoptera frugiperda) in Maize	ICAR-IIMR, Ludhiana/DPP S & Q and 2019	5	5
	Cocon	Assessment of Management modules against Rugose Whitefly in Coconut	TNAU/NIPHM , 2019	5	5
	Tubero se	Assessment of Management modules against Nematode infestation in Tuberose	IIHR, 2019	5	5
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		Alternative Natural Sweetener for Bakery Products	IIFPT&TNAU 2017	5	5
Drudgery Reduction					
Storage Technique					
Cropping system	Sugarc ane	Assessment of Suitable intercrop for Sugarcane TO 1:Sugaracne + Bhendi TO 2: Sugaracne + Onion	TNAU, 2018	5	5
Total					

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				
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management				
Production and Management				
Others (Pl. specify)				
Total				

Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	Source of technology with year	No. of trials	No. of farmers
			with year		

3.c. TECHNOLOGY ASSESSMENT IN DETAIL

OFT 1:

1. Thematic area: Cropping System

2. Title: Assement of Suitable intercrop for Sugarcane

3. Scientists involved: SMS (Agronomy)

- **4. Details of farming situation**: Sugarcane is a major crop in varaganadhi river basin in Periyakulam block. The main planting season of the area is February March. The crop cultivated in basin irrigation and open well irrigation. The major soil type of the area is Black colour clay loamy soil with high amount of nitrogen (284 kg/ha), low phosphorous (7.82 kg/ha) and high potassium (169 kg/ha). The major cropping system of the village is Sugarcane- Sugarcane- Paddy. Total area under Sugarcane crop in the cluster village is 2700 ha. Total amount of rainfall received during the crop period is 764 mm with 17 rainy days. The highest amount of rainfall received during north east monsoon (430mm), during south west monsoon received 284mm rainfall. Remaining 50 mm rainfall received during summer shower.
- **5. Problem definition / description:** farmers conventional Sugarcane cultivation practice give Low yield (90 t/ha) and income (Rs.152750) due to non utilization of natural resource in Sugarcane initial growth period and non adoption of integrated crop management practices in Sugarcane. Lack in knowledge about intercropping with short duration vegetables crops in an area of 1400 ha among 200 farmers.

6. Technology Assessed:

TO1: Sugarcane + Bhendi intercropping system. Bhendi variety COBH 4 is short duration high yielding variety. Resistant yellow vein mosaic virus. Its give yield from 45 days after Sowing.

TO: 2 Sugarcane + Onion Intercropping system. Onion bulbs is a planting material. Its matured at 75 days after planting.

Farmers practice: Sugarcane + Green gram. Short duration Green gram is sown as intercrop between Sugarcane rows. Its mature at 70 days after sowing. After harvesting of pods the plant was incorporated in soil as a mulch material.

7. Critical inputs given

Name of critical input	Qty per trial/ha	Cost per trial (Rs.)		
Onion Seed	250 g/0.25 ac	700		
Bhendi seeds	250 g/0.25 ac	1000		
Vegetable special	5kg /1 ac	800		
Field board	1	400		
Total cost		2900		

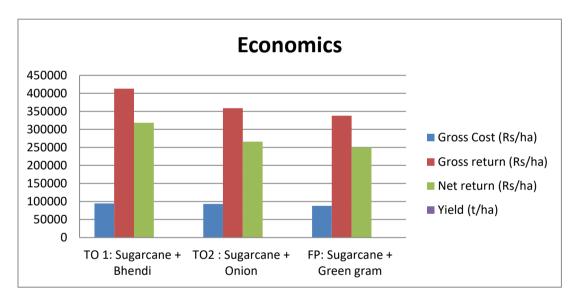
8. Results:

Table: Performance of the technology

Technology Option	No.of trials	Yield (t/ha)	Net Returns (Rs. in lakh./ha)	B:C ratio	No. of Productive tillers per plant
Farmers Practice: Sugarcane +		123.12	249850	3.84	19.40
Green gram					
Technology 1: Sugarcane	5	143	318500	4.37	18.00
+ Bhendi intercropping system					
Technology2: Sugarcane + Onion		128.2	265715	3.85	17.60
Intercropping system					

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

Description of the results:



Sugarcane is the major crop cultivated in Vadugapatty cluster village. The main problem for Sugarcane growers in this region gaining of income takes long time as compared to others crops. Due to abnormal weather condition and failure of rainfall leads to low yield and crop failure. Sugarcane is wider spaced crop. Since, initial stage of crop growth natural resources is not fully utilized. Keeping all the problems in above KVK introduce short duration and high market preference vegetable crops as intercrop in sugarcane cropping system. Technology option 1 is intercropping with Short duration and high yielding Bhendi (CO 4) hybrid. Technology option 2 is intercropping with small onion with duration of 75 days maturity. The highest crop equivalaent yield give by Technology option 1: Sugarcane + Bhendi intercropping system (143 t/ha) followed by Sugarcane + Onion Intercropping system (128.2t/ha). The farmers practice (TO 3: Sugarcane + Green gram intercropping system) recorded lower yield (123.12 t/ha). Regarding net income, TO 1 (Sugarcane + Bhendi) recorded highest net incomeof Rs.318500. TO 2 (Sugarcane + Onion) recorded net income of Rs. 265715. The farmers practice (Sugarcane + Onion) Recorded Rs.249850 as net income. The highest BCR (1: 4.37) recorded by the TO 1 (Sugarcane + Bhendi).

Constraints faced:

Intercropping in Sugarcane adopted only in wider planted crop. Farmers slightly feared about final yield of Sugarcane. During planting of Onion bulbs, it was struggling to emerge in clay loam soil. The bulb diameter also reduced as compared to sole onion bulb. Harvesting of Bhendi once in a two days if mentally difficult Sugarcane farmers. After getting good price only they are constantly harvesting.

9. Feed back of the farmers involved:

- Weed infestation during initial period is controlled
- Onion was affected by Bulb blight disease due to water logging in Sugarcane field.
- Bhendi Gives yield upto 120 Days after sowing. It was slightly affect the growth and tillering ability of Sugaracne.

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

- Quick growing Bhendi variety helpful to better economic return
- Formulation of recommended dose of fertilizer schedule for Sugarcane + Vegetables intercropping system will helpful to getting more yield in Sugarcane based cropping system.

OFT 2:

1. Thematic area: Varietal evaluation

2. Title: Assessment of Suitable Groundnut variety for Theni District

3. Scientists involved: SMS (Agronomy)

- **4. Details of farming situation:** the on farm trial plot was located in Kombai village of Uthamapalayam Block. The area comes under the fotthills of western ghats. The soil type of the trail plot id red sandy loamy soil with high nitrogen content (274 kg/ha), medium in phosphorous (11.7 kg/ha) and high in Potassium (164 kg/ha). The major cropping system of the area is groundnut pulses. The total amount of rainfall received during crop period is 425 mm with 17 rainy days.
- **5. Problem definition** / **description**: the major problem in Groundnut cultivation area in Uthamapalayam block non availability of improved high yielding variety and non adoption of integrated crop management practices in groundnut. During last one decade farmers are cultivating same variety its lead to low yield (1800 kg/ha) and higher cost of cultivation. The main season in kharif. Heavy rainfall during vegetative stage leads to incidence of wilt and Tikka leaf spot diseases in an area of 1256 ha among 1800 farmers

6. Technology Assessed:

TO1: **VRI 8,**Yield: 2130 kg/ha(Rain fed)Duration 105-110 days,Moderately resistant to LLS and Rust, 70% Shelling, 49 % oil content, Medium bold kernels

TO 2: BSR 2, Duration: 110days, Yield 2220 kg/ha (Rain fed), Oil content: 46.51 %

Farmers practice: JL 22 variety with average yield of 1800 kg/ha.

7. Critical inputs given

Critical input	Quantity per trial	Cost per trial
VRI 8 seeds	25 kg /0.5 ac	2500
BSR 2seeds	25 kg/0.5 ac	2500
Groundnut Rich	2kg /ac	1200
Field board	1	400 6600

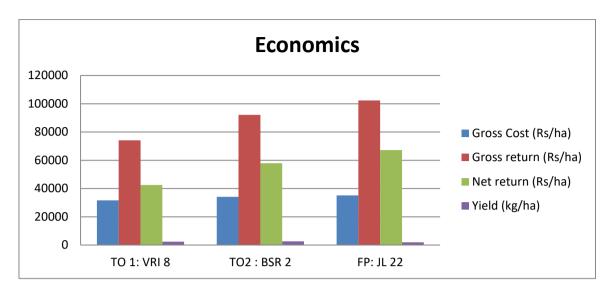
8. Results:

Table: Performance of the technology

Technology Option	No.of trials	Yield (t/ha)	Net Returns (Rs. in lakh./ha)	B:C ratio	No.of Pods per plant*
Farmers Practice: Jl 22		19.5	42516	2.21	31.00
Technology 1: VRI 8	5	23.62	57961	2.84	38.30
Technology2: BSR 2		26.62	67186	2.97	40.60

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

Description of the results:



The result of Assessment of suitable groundnut variety for theni district revealed that, the highest yield was recorde in BSR 2 groundnut variety (26.24q/ha), followed by VRI 8 (23.62). the lowest yield was recorded by farmers practice JL 22 (19.5 q/ha). The highest net return (Rs.67186) was recorded by TO 2: BSR 2, followed by TO 1: VRI 8 (Rs. 57961). The lowest net return was recorded by farmers practice JL 22 (Rs. 42516). Regarding Benefit cost ratio BSR 2 recorded highest (2.97) followed by VRI 8 (2.84).

Constraints faced:

In Uthamapalayam block groundnut cultivated during kharif season, the high amount of rainfall during vegetative growth leads to wilt and leaf spot incidence. It will suffer the number plant survived in unit area and pod formation.

9. Feed back of the farmers involved:

BS2 groundnut varity give bold seed it will give higher market price

10. Feed back to the scientist who developed the technology: Seed hub and timely availability of seeds will helpful to large scale adoption of improved groundnut variety.

OFT 3:

1. Thematic area: INM

2. Title: Assessment of organic nutrient management in Rice cultivation (CO51)

3. Scientists involved: SMS (Soil Science & Agronomy)

4. Details of farming situation:

Paddy is a main food crop cultivated in Cumbum, Uthamapalayam, Chinnamnur and Andipatii block of Theni district in an area of 8200 ha during Kharif season of every year. More than 30 per cent of the area is occupied by rice cultivation in different season of Theni district. On Farm trial on assessment of organic nutrient management in Rice cultivation (CO51)at five farmers field of KK Patti village of Cumbum block respectively during Kharif season 2019-20. The trial area comes under the Cumbum valley within the Mullaiperiyar river irrigation basin. The soil type is Clay with medium nitrogen (370.6 kg/ha), low phosphorus (7.65 kg/ha) and high in potassium (127.6 kg/ha). Cropping scheme of the area is Paddy-Paddy-Pulses. The total area under Paddy cultivation is 1500 ha. During summer Green gram was growing as summer. It was used as a Green manure crop for Paddy cultivation. The average productivity of paddy is 65.4 q/ha during Kharif and 59.61 q/ha during Rabi. The village received 28 rainy days with annual rainfall of 950 mm.

5. Problem definition / description:

The farmers were getting 30-50% of yield loss due to improper usage of fertilizers. The farmers cannot cultivation of green manure crops due to unaware which results yield will be decreased. The farmers are didn't knowledge about organic manure sources which results poor grain and straw yield due to the improper nutrient management. The main objective of the study was to assess the suitable organic nutrient management in Rice cultivation (CO51) in Thenidistrict for higher grain yield and more net income.

6. Technology Assessed:

- **TO 1: Farmer Practice:** Green manure + Chemical fertilizers
- TO 2: Recommended Practice: INM Green manure + Soil Test based NPK+ Biofertilizers

TO: 3Alternate Practice:Organic Nutrient: Incorporation of green manure, Seed treatment 3% Panchagavya, FYM @750 kg/ha + 100 kg rock phosphate + neem cake 200 kg/ha + top dressing vermicompost @ 1t/ha + 3% panchagavya spray twice at AT and PI (TNAU 2014).

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

Name of critical input	Qty per trial/ha	Cost per trial (Rs.)
Soil health card	1	160
Biofertilizers	20 kg/ha	340
Green manure	20kg/ha	128
Panchagavya	8 li/ha	300
EFYM	750 kg/ha	100
Rock phosphate	100 kg/ha	400
Field board	1	

8. Results:

The results of the on farm trail conducted assessment of organic nutrient management in Rice cultivation (CO51) are presented below (Table).

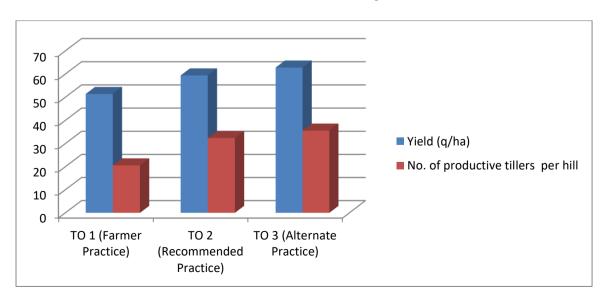
Table: Performance of the technology

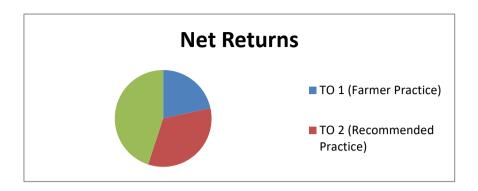
Technology Option	No.of trials	Yield (q/ha)	Net Returns (Rs. in ha)	B:C ratio	No. of productive tillers per hill
TO 1 (Farmer Practice)		51.4	32740	1.66	20.6
TO 2 (Recommended Practice)	5	59.4	50720	1.90	32.4
TO 3 (Alternate Practice)		62.8	68200	2.19	35.6

Description of the results:

On farm trial results revealed that cultivation of paddy by application of organic nutrient (Incorporation of green manure, Seed treatment 3% Panchagavya, FYM @750 kg/ha + 100 kg rock phosphate + neem cake 200 kg/ha + top dressing vermicompost @ 1t/ha + 3% panchagavya spray twice at AT and PI) was recorded highest grain yield (62.8 q/ha)followed by the practice of INM(Green manure + Soil Test based NPK+ Biofertilizers). The lowest grain yield of 51.4 q/ha was recorded in farmer Practice (Green manure + Chemical fertilizers).

Economics of the study revealed that, higher net returns (Rs.68200/ha) and benefit cost ratio (2.19) was recorded in application of organic nutrient (Incorporation of green manure, Seed treatment 3% Panchagavya, FYM @750 kg/ha + 100 kg rock phosphate + neem cake 200 kg/ha + top dressing vermicompost @ 1t/ha + 3% panchagavya spray twice at AT and PI) followed by INM (Green manure + Soil Test based NPK+ Biofertilizers) and farmers practice.





Constraints faced:

Non availability of panchagavya and other bio fertilizers during panicle initiation stage was observed.

9. Feed back of the farmers involved:

The application of organic nutrient (Incorporation of green manure, Seed treatment 3% Panchagavya, FYM @750 kg/ha + 100 kg rock phosphate + neem cake 200 kg/ha + top dressing vermicompost @ 1t/ha + 3% panchagavya spray twice at AT and PI) recorded higher productive tillers (32-39 tillers/hill) and grain yield compare to the INM and Green manure practices. Also, the soil health was increased by these practices.

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

Organic inputs such as panchagavya, vermicompost and neemcake production technology trainingprogramme will engage the farmers to make available to the farmers.

OFT:4

1. Thematic area: Varietal evaluation

2. Title: Assessment of new high yielding Bhendi hybrids in Theni District.

3. Scientists involved: SMS (Horticulture) & Senior Scientist and Head

4. Details of farming situation:

Bhendicultivated in Balakrishnapuramvillage of Theni Block. The soil type is red loamy with medium nitrogen (304 kg/ha), low Phosphorous (7.8 kg/ha) and medium Potassium (276.8 kg/ha). The private hybrid of bhendi was recorded high pest and disease incidence, low yield among 200 famers in an area of 100 ha. Cropping scheme of this village cumbu – Bhendi - Chilli. The main crop cultivation season is kharif. Total area under bhendi is 250 ha with average production of 150 q/ha of fresh fruit. The village received 17 rainy days with annual rainfall of 820 mm.

5. Problem definition / description :

The private hybrid (Mahyco-10) gives low yield due to high pests such as mites, YVMV and fruit borer disease. Farmers are unaware of high yielding bhendihybrids that give better yield and also have moderate disease resistance. Farmers are getting low market price for fruits/pods. So, the farmers prefer to go for high yielding bhendi hybrids. The trail area also have low water potential this also results in higher mites incidence.

6. Technology Assessed:

TO1: Recommended Practice

TO2: Alternate practice1

Bhendi Hybrid CO 4 TNAU 2016, Duration: 110 days ,Yield 25.60 t/ha

All the districts of Tamil Nadu except hilly regions. Medium size fruits; 25-29 fruits/plant; 22 harvests in 110 days. Resistant to bhendi YVMV disease

TO3: Alternate practice 2

IIHR-ArkaNikita, IIHR2017.Produces dark green, medium, smooth and tender fruits.

Excellent cooking quality, nutritionally rich in antioxidant activity, high mucilage content (1.08 % (FW) and high edible fiber content (8.85 % (DW). Rich in iodine content (33.31 μ g/kg). Yields 21-24 t/ha in 125 -130 days duration.

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

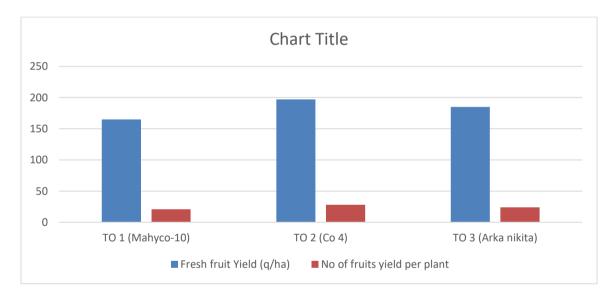
Name of critical input	Qty per trial/ha	Cost per trial (Rs.)
Seeds	1 Kg/ac	2000
Seeds	1 Kg/ac	2000
Azospirillum	10 g/ac	10
Phosphobacteria	400g/ac	40
IIHR Vegetable special	1 kg	160
Field board	1 nos	400

8. Results:

Table: Performance of the technology

Technology Option	No.of trials	Fresh fruit Yield (q/ha)	Net Returns (Rs./ha)	B:C ratio
TO 1 (Mahyco-10)	5	165.0	85500	2.08
TO 2 (Co 4)		197.0	143900	2.56
TO 3 (Arkanikita)		185.0	130600	2.43

Technology Option	No of fruits yield per plant	Percentage of pest and disease incidence (%)
TO 1 (Mahyco-10)	21	11
TO 2 (Co 4)	28	12
TO 3 (Arkanikita)	24	11



The results of the assessment of two new high yielding hybrids of Bhendiin Theni district indicated that out of the private hybrid viz., (mahyco-10).Co 4 recorded significantly higher fresh fruityield of 197q/ha followed by Arkanikita with185 q/ha and the lowest fresh fruityield of 165 q/ha was recorded in private hybrid (Mahyco-10). The highest number of fruits per plant of28 was recorded in CO-4 followed byArka Nikita (24). The lowest number of fresh fruits per plant of 21 was recorded in private hybrid. In the case of net returns, CO-4 was recorded significantly higher net return of Rs. 143900/ha followed by Arkanikita (Rs. 130600/ha) and the least net returns was recorded in private hybrid (Mahyco-10)(Rs. 85500/ha). During flowering stage of crops farmers faced termites incidence problem in private hybrids. The CO4Bhendi was recorded higher fresh fruit yield and farmers could get good quality of fruits.

Constraints faced:

Most of the farmers were cultivated private hybrid of bhendi. Due to high pest and disease incidence of private variety leads to low yield and low market price. Co-4 has moderately resistant to mites incidence. Cultivation of Co-4 were recorded higher yield than other private hybrids in Theni district area.

9. Feed back of the farmers involved:

Farmers informed that the new hybrids CO-4 and Arkanikita Hybrids had less incidence of pest and diseases. After the assessment farmers wanted to cultivate the same hybrid seeds for every season and requested the KVK to make arrangements to procure the same.

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

Private Hybrid (Mahyco-10):Cylindrical sized fruits is fetching better price in the market but this variety recorded low yield. **TNAU HybridBhendi CO 4:**Medium sized fruits is fetching better price in the market but this variety recorded high yield when comparing private hybrid.

IIHR-Arkanikita:Medium sized fruits is not fetching better price in the market but this variety recorded high yield when comparing private hybrid.

OFT:5

1. Thematic area : IPM

2. Title: Assessment of management modules against Fall Army Worm (Spodoptera frugiperda) in Maize

3. Scientists involved : SMS (Plant Protection)

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). The trail were conducted during Kharif 2019-2020 at Kodangipatty village of Bodinayakanur block. Maize is cultivating as major crop in Theni District. The total area under Maize cultivation 6200 ha. The soil type is loamy with high nitrogen (241 kg/ha), low phosphorus (8.32kg/ha) and high in potassium (167kg/ha) with high nutrient capacity.

5. Problem definition / description: (one paragraph)

Farmers getting low yield (5.3 q/ha) due to Fall Army Worm *Spodoptera frugiperda* incidence in maize and lack of awareness of Integrated Pest Management (IPM). Cultivation of Maize without seed treatment, lack of raising trap crop, frequent monitoring, scouting leads to prevention of natural enemies and utilization of pheromone traps. Integrated pest management approach is required to be adopted.

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

Selection of Area: Kodangipatty Village, Theni District **TO 1: Farmer Practice:** Application of Dichlorovos

TO 2: Recommended Practice: Seed treatment with Thiamethoxam @ 4ml/kg of seed growing of border crop with grain sorghum as trap crop sown in advance and legume intercrop as cowpea to promote natural enemies as few rows as intervals of maize. Collection and destruction of egg masses, installation of *Spodoptera frugiperda as* pheromone traps. First spraying of Azadirachtin 10000 ppm @ 10-15 Days After Sowing. Application of Entomo Pathogenic Nematode EPN 2g/lit @ 15-21Days After Sowing in leaf whorls. Spraying of *Metarhizium anisopliae* 2ml/lit @ 30-35 Days After Sowing.

TO 3: Alternate Practice: Emamectin Benzoate 5 SG @ 4g/lit or Spinosad 480 SC @ 5ml/lit as first spray of 21-28 DAS. Flubendiamide 480 SC or Chlorontriliniprole 18.5 SC or Spinetoram 11.7 SC @ 3 ml/lit as second spray of 36-42 DAS.

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

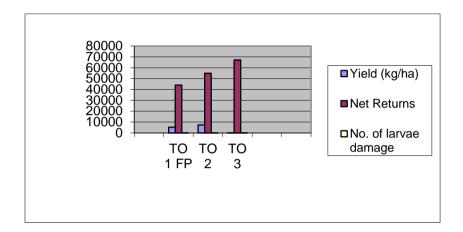
Name of critical input	Qty per trial/ha	Cost per trial (Rs.)
Fodder Sorghum-Trap crop	500 g	100
Cowpea- inter crop	500 g	100
Pheromone traps	12 traps + lures	600
Azadirachtin	1 lit	1000
EntomoPathogenic Nematode (EPN)	1 Kg	1000
Metarhizium anisopliae	1lit	600
Emamectin benzoate	1 lit	1000
Field board	1	400

8. Results:

Table: Performance of the Technology

Tashnalagy Ontion	No.of	Yield			No. of larvae	Pheromone
Technology Option	trials	(t/ha)		BCR	damage	catches/week
Technology 1: Farmers		5.31	67100	1.1	40	17
Practice:	5					
Technology 2:	3	7.35	55000	1.2	26	31
Technology 3:		7.72	43950	1.4	15	46

Description of the results: in addition you can use graphs also



9. Feed back of the farmers involved:

- Seed treatment with Thiamethoxam reduces the FAW incidence
- Fodder Sorghum and cowpea promotes natural enemies

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

- Pheromone traps catches more number of Adults using Spodolure.
- Application of EPN kills the number of larvae /plant as in leaf whorl of Maize.
- Metarhizium anisopliae is very effective to manage FAW larvae.

OFT 6: Assessment of management modules against nematode infestation in Tuberose

1. Thematic area : IPM

2. Title: Assessment of management modules against nematode infestation in Tuberose

3. Scientists involved : SMS (Plant Protection)

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) Tuberose is one of the highly profitable flower crop cultivated in and around Pallarpatti village of Bodinayakanur block. The trail were conducted during Kharif 2019-2020. The soil type is loamy with high nitrogen (271 kg/ha), low phosphorus (7.32kg/ha) and high in potassium (178 kg/ha) with high nutrient capacity.

5. Problem definition / description: (one paragraph)

Tuberose Farmers getting low flower yield (9.3 q/ha) due to nematode infestation and lack of awareness of cultivation of tuberose without bulb treatment, application of bio-pesticides. Due to nematode infestation the stunted growth of the plants and leaf size is reduced and the flowers appears sickly and at the end of infestation roots rotted. Leaves turn to pale yellow, reduction of no. of flowers and length of the flower stalk. Severe galling in the roots of Tuberose.

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

Selection of Area: Palarpatty Village, Theni District

TO 1: Farmer Practice: Application of Farm Yard Manure

TO 2: Recommended Practice: Bulb treatment with *Pseudomonas fluorescens* and *Trichoderma viride* each @ 10g/kg of bulb. *Trichoderma viride*, *Pseudomonas fluorescens*, *Paeciomyces lilacinus* each@ 2kg/tonne of Farm yard manure for enrichment and applied before planting. Once in three months biopesticides and enriched neem cake 100 kg/ac applied to the Standing crop.

TO 3: Alternate Practice: Pochonia chlamydosporia @ 2 kg/ac along with neem cake 100 kg/ac applied once in three months.

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

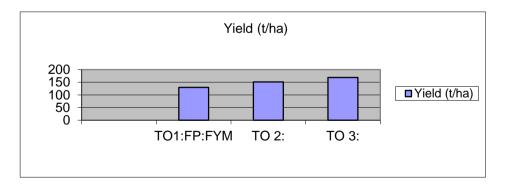
Name of critical input	Qty per trial/ha	Cost per trial (Rs.)
Pseudomonas fluorescens	10 kg	1200
Trichoderma viride	10 kg	1200
Paeciomyces lilacinus	6 kg	1200
Pochonia chlamydosporia	6 kg	1200
Field board	1	400

8. Results:

Table: Performance of the Technology

Technology Option	No.of trials	Yield (q/ha)			No. of root infested by nematode %
TO1:Farmers Practice: FYM		130	189500	1.1	26
TO 2	5	151	355900	1.2	14
TO 3		169	400091	1.4	11

Description of the results: in addition you can use graphs also



9. Feed back of the farmers involved:

Bulb treatment with biopesticides reduces the nematode infestation

10. Feed back to the scientist who developed the technology: Nematode infestation reduces raising of intercrop as marigold which is presence of allele chemical from the roots. Growth of the plants and leaf size increased after application of *Pseudomonas fluorescens* and *Trichoderma viride*.

OFT 7: Assessment of management modules against Rugose Whitefly in Coconut

1. Thematic area : IPM

2. Title: Assessment of management modules against Rugose Whitefly in Coconut

3. Scientists involved : SMS (Plant Protection)

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). Coconut is one of the highly profitable plantation crop cultivated in and around Pudupatty village of Cumbum block. The trailwere conducted during Rabi 2019-2020. The soil type is Sandy loamy with high nitrogen (271 kg/ha), low phosphorus (7.12kg/ha) and high in potassium (168 kg/ha) with high nutrient capacity.

5. Problem definition / description: (one paragraph)

Coconut farmers getting low nut yield (8037 nuts/ha). Rugose whitefly nymphs and adults suck the sap from the under surface of leaves leads to Honey dew secretion, development of sooty mould fungus, yellowing of leaves and dropping of affected leaves. Extensive feeding of the insect leads to the excretion of honey dew which subsequently gets deposited on the upper surface of the leaves positioned down beneath or even on other under storey crops. Honey dew excrement, being sweet and watery, attracts ants and encourages growth of the fungus *Capnodium* sp. which causes disfigurement of leaves affecting the photosynthetic efficiency of the plant. Since the outer whorl of fronds of coconut palm, which already bear coconut bunches of different maturity, do not contribute to the nut yield considerably, the whitefly infestation with minimum tissue damage and sooty mould on the outer whorl of fronds.

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

Selection of Area: Pudupatti Village, Theni District

TO 1: Farmer Practice: Application of Farm Yard Manure

TO 2: Recommended Practice:

Installation of yellow sticky traps to monitor and catch the adult movement, releasing of *Chrysopa zastrowi* predator at 15 days interval, *Encarsia guadeloupae* parasitoid and foliar application of *Isaria fumosorosea*.

TO 3: Alternate Practice:

Spraying of neem based formulations Azadirachtin 1 %@ 2 ml/lit along with wetting agent@10g/lit at 20 days interval, spraying of 1 % starch solution for sooty mould.

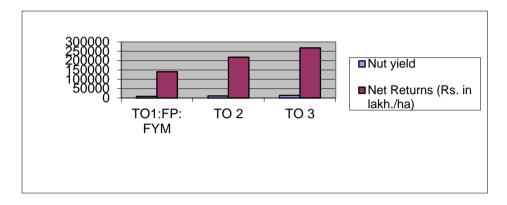
7. Critical inputs given: (along with quantity as well as value)

Name of critical input	Qty per trial/ha	Cost per trial (Rs.)
Yellow sticky traps	10 nos	1000
Chrysopa zastrowi	400 nos	500
Encarsia guadeloupae	2 pkts	50
Isaria fumosorosea	2 kg	400
Field board	1	400

8. Results: Table: Performance of the Technology

Technology Option	No.of trials	Nut yield			Reduction of RSW & sooty mould incidence %
TO1:Farmers Practice: FYM		8043	140000	1.2	36
TO 2	5	11062	218400	1.6	17
TO 3		13710	268500	1.9	10

Description of the results: in addition you can use graphs also



9. Feed back of the farmers involved: Yellow sticky traps attract more adults

10. Feed back to the scientist who developed the technology: Predator of *Chrysopa zastrowi* reduces nymph population whitefly.

OFT 8

1. Thematic area : Value Addition

2. **Title** : Alternative Natural Sweetner for Bakery Products

3. Scientists involved : Subject Matter Specialist (Home Science)

4. Details of farming situation : -

5. **Problem definition / Description**: High consumption of sugar leads to High incidence of non communicable diseases.

Sugar is an essential and mostly commonly used ingredient in the Indian cuisines, mostly all the people in India consume sugar at least once in their daily meals. There are different varieties of sugar available in our country i.e.Palm Sugar, Jaggery, White Sugar etc.,

Technology Assessed

TO1 – Palm sugar (Centre for Post Harvest Technology, TNAU, 2017)

Palm sugar has been used as a traditional sweetener for thousands of years in Asia. It is now gaining popularity globally because of its natural, minimal processed and healthy. One of the major health claims is its glycemic index (GI). In view of the above point Centre for Post Harvest Technology, TNAU, 2017 has incorporated Palm sugar in bakery products for prevention of degernativer disorders.

TO2 – Jaggery (IIFPT, 2014)

Gur (Jaggery) is a natural, traditional sweetener made by the concentration of sugarcane juice and is known all over the world in different local names It is a traditional unrefined non-centrifugal sugar consumed in Asia, Africa, Latin America and the Caribbean. Containing all the minerals and vitamins present in sugarcane juice, it is known as healthiest sugar in the world. India is the largest producer and consumer of jaggery. Out of total world production, more than 70% is produced in India.

The special feature of the technology is

Rich in mineral salts, Easy to digest, Develops unique taste as sweetener, Treats throat and lung infections, Easily dissolved and balances the deficiency of sugar level, Sulphur less Organic Composition, a best to suite as preferred health alternative.

Being rich in vitamins and minerals, Jaggery was added in the bakery products i.e.Millet Cookies to improve the nutritional values of the products and also for a healthy life.

TO3: Farmers Practice (White Sugar)

Farmers are getting white sugar in the ration shop at low cost.

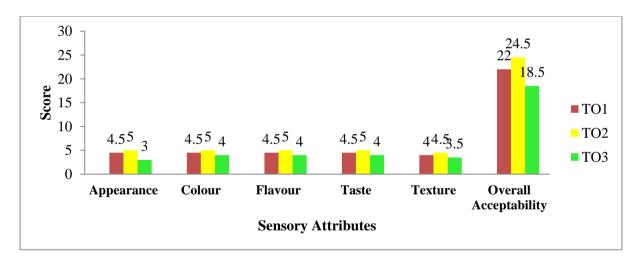
6. Critical inputs given: (along with quantity as well as value)

Details of inputs	Total cost involved (Rs.)
Raw materials (Jaggery, Palm sugar, White Sugar)	1000
Packaging materials	500
Total	1500

Organoleptic Evaluation

Particulars	Appearance (5)	Colour (5)	Flavour (5)	Taste (5)	Texture (5)	Overall Acceptability (25)
TO1	4.5	4.5	4.5	4.5	4	22.0
TO2	5	5	5	5	4.5	24.5
TO3	3	4	4	4	3.5	18.5

Excellent: 5, Very Good: 4, Good: 4, Fair: 1, Not Accepted: 1



Organoleptic qualities play an important role in evaluating the quality of food products. A total of three types of natural sugars namely ground Palm, Jaggery and White sugar were used in the preparation of millet cookies. A numerical score card was used to measure the acceptability in terms of appearance, colour, flaovour, taste and texture with five scores for each criteria. Semi trained panel members in the age group of 20 -30 years evaluating the recipes. These scores given were excellent (5), very good (4), good (3), fair (2) and poor (1). The acceptability score was 25. For comparison purposes farmer practice i.e white sugar was used in preparation of millet cookies.

The acceptability trials of TO1, TO2 and TO3 obtained a mean score in the range of 3.0-5 out of 5. When compared to the farmers practice jaggery used millet cookies were highly acceptable in terms of appearance, colour, flavour, taste and texture and secured higher score.

The results indicated that the overall acceptability of different natural sweetner obtained a mean score in the range of 18.5 - 24.5 out of 25. The acceptability trials of different natural sweetner in comparison to the farmers practices, proved that TO2 ranked higher and was more acceptable by the semi trained panel members. The recipes would not only add taste and colour, but also provide important nutrient of iron to the human body. It can help to allivate malnutrition among children.

From the foregoing trails, it may be concluded that the TO2 possess high nutrient and also more acceptable. It is evident in terms of micronutrient especially rich in Iron.

9. Feed back of the farmers involved:

Farmwomen were very happy to adopt the technology and also they are using jaggery in their home. They are planning to develop the product in large scale level in the coming years.

Lack of machineries to develop value added products in large scale.

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

Jaggery used products can be recommended to supplement in all the Anganwadi Centers to improve health and nutrition status of the children.

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	Demonstration of CO 51 Paddy variety	Training, FFS, Method demonstration, Scientist visit, Field day.	1	10	4
2	Maize	ICM	Demonstration of CO HM 6 Maize hybrid with ICM	Training, FFS, Method demonstration, Scientist visit, Field day.	1	10	4
3	Cumbu	Varietal introduction	Demonstration of CO 10 Cumby variety	Training, FFS, Method demonstration, Scientist visit, Field day.	1	10	4
4	Samai	Varietal introduction	Demonstration of CO 4 samai variety	Training, FFS, Method demonstration, Scientist visit, Field day.	1	10	4
5	Sorghum	Varietal introduction	Demonstration of K 12 Sorghum variety	Training, FFS, Method demonstration, Scientist visit, Field day and seed production	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.N o.	Crop	Thematic area	Technology Demonstrated	Season and year	Source of funds	Area (ha)		No. of farmers/demonstratio			Reasons for shortfall in achieveme nt
						Propos	Actu	SC/S	Other	Tota	
						ed	al	T	S	1	
1	Paddy	Varietal	Demonstrati	Khar	ICA	4	4	3	7	1	
		introducti	on of VGD	if	R					0	

		on	1 Paddy variety	2019							34
2	Paddy	Varietal introducti on	Demonstrati on of ADT 53 Paddy variety	Rabi 2019 - 2020	ICAR	4	4	4	6	1 0	
3	Castor	Varietal introducti on	Demonstrati on of YTP 1 castor variety	Khar if 2019	ICAR	4	4	0	10	1 0	
4	Cowp ea	Varietal introducti on	Demonstrati on of VBN 3 Cowpea variety	Rabi 2019 - 2020	ICAR	4	4	0	10	1 0	
5	Tomat o	INM	Demonstrati on on INM practices by foliar nutrition for enhanceme nt of yield in Tomato	Khar if 2019	ICA R	4	4	2	8	1 0	
6	Chilli	INM	Demonstrati on foliar nutrition of IIHR Vegetable special for enhanceme nt of yield in Chilli	Rabi 2019	ICA R	4	4	0	10	1 0	
7	Grape s	ICM	Demonstrati on on Double pruning and single harvest in seedless Grape.	Khar if 2019	ICA R	4	4	2	8	1 0	
8	Morin ga	ICM	Demonstration on off season production of Moringa in Theni District.	Khar if 2019	ICA R	4	4	0	10	1 0	

Details of farming situation

Crop	Seaso n	Farming situation (RF/Irrigat	Soil type	Status of soil			Previo us crop	Sowing date	Harvest date	Seaso nal rainfal	No. of rain
		ed)		N	P	K				1 (mm)	day s
Paddy	Kha rif 201 9	Irrigated	Cla y loa m	2 9 1	11. 74	1 6 9	Black gram	8.8.201 9	30.12.2 019	384	1 6
Paddy	Rabi 201 9- 202 0	Irrigated	Cla y loa m	2 8 4	9.3	1 6 7	Padd y	25.11.2 019	29.2.20 20	294	1 3

											33
Casto	Kha	Rainfed	Red	1	13.	1	Cotto	9.8.201	7.2.202	684	2
r	rif		loa	6	45	6	n	9	0		3
	201		my	4		9					
	9		soil								
Cowp	Rabi	Rainfed	Bla	2	9.5	1	Cotto	24.10.2	6.1.202	345	1
ea	201		ck	7	4	6	n	020	0		5
	9-		clay	4		9					
	202.		loa								
	0		m								
Toma	Kha	Irrigated	Red	2	12.	1	Toma	06.06.2	16.10.2	290	6
to	rif		loa	3	5	5	to	019	019		
			my	5		9					
			soil								
Chilli	Rabi	Irrigated	Red	2	13.	1	Onio	17.12.2	22.04.2	185	4
			loa	4	5	6	n	019	019		
			my	2		5					
			soil								
Grape	Kha	Irrigated	Cla	2	6.2	1	Grape	20.06.2	23.10.2	275	8
s	rif		у	7	5	4	S	019	019		
			loa	5		7					
			m								
Morin	Kha	Irrigated	Red	2	10.	1	morin	12.06.2	07.10.2	190	4
ga	rif		loa	6	25	6	ga	019	019		
			my	4		5	_				
			soil								

Technical Feedback on the demonstrated technologies

S. No		Feed Back
1. Paddy	у	Cultivation of VGD 1 Paddy variety gives high net return due to higher market preference of
		the variety. This characteristics are Similar to seeragasamba , highly suitable for Briyani
		making. Demonstration of seed treatment with pseudomonas decreases the disease incidence.
2. Paddy	у	Short duration in nature helped to avoid water shortage in second paddy crop in the cluster
		village. Lodging was reduced as compared to other variety. Incidence of Yellow stem borer
		and lakshmi diseases was reduced. High market reference due to medium slender in nature.
3. Casto	or	Higher yield 1460 kg/ha. Higher branching variety. Bold seeded as compare to farmers
		practice. Highly preferred for bund cropping for cotton and pulses. Also give good income in
		intercropping with short duration pulses.
4. Cowp	pea	VBN 3 gives higher yield as compared to previous varieties cultivated by farmers. Incidence
		of yellow mosaic virus is low. Application of pulses wonder reduces the flower shedding and
		increase the number of pods per plant. Incidence of wilt disease was noticed in heavy textured
		soil during north monsoon period.
5. Toma	ato	The application of pseudomonas fluorescence reduced the disease incidence (fusarial wilt
		diseases). Foliar application of 19:19:19 and micronutrient mixture $@1g / lit (0.1\%)$ during
		40th and 80th days after planting were induces the flowering and increased the fruit yield.
6. Chilli	i	The foliar application of 0.3 % IIHR vegetable special during 60 and 100 days after planting
		was increased the fruit yield and reduces the flower drop. Also, it enhanced the fruit quality
		such as fruit appearance, fruit keeping quality and odor.
7. Grape	es	The major problem of seedless grape cultivation is Fruit cracking during rainy season and
		TSS content reduced due to triple harvests per year in an area of 250 ha among 120 farmers.
		Finally, we suggest that the Foundation pruning done by the month of February and followed
		Fruit pruning done by July month of every year in the Theni district of TamilNadu.
8. Morii	nga	The pods are available in a very meager number during November to February owing to the
		season which coincides with heavy rainfall, low temperature which leads to the drop in
		flowers leading to poor pod set which is considered to be the off season period of the year.
		FYM 10 kg /tree along with 100 g urea, 100 g super phosphate and 50 g of muriate of potash
		is given per tree and irrigated, July month pruned trees along with application of potassium
		nitrate 0.5%.

Farmers' reactions on specific technologies

S. No	Feed Back
1 Paddy	Higher yield and higher market preference
2 Paddy	High yield and short duration and non lodging
3. Castor	Perform well under the bund cropping system
4. Cowpea	Higher yield and incidence of yellow mosaic virus reduced.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks	
1	Field days	15	30.12.2019,	371		
			29.2.2020,			
			7.2.2020,			
			6.1.2020,			
			23.10.2019,			
			07.10.2019,			
			06.06.2019			
2	Farmers Training	18	30.12.2019,	281		
			29.2.2020,			
			7.2.2020,			
			6.1.2020,			
			23.10.2019,			
			07.10.2019,			
			06.06.2019			
3	Media coverage			-		
4	Training for extension					
	functionaries					

Performance of Frontline demonstrations

Frontline demonstrations on crops

	Thematic	40 along lo an		e of the y/ Hybrid	No. of	Are		Yiel	d (q/ha)		%	Econo	mics of d (Rs./		ation	E	conomics (Rs./l		k
Crop	Area	technology demonstrated	Domo	Check	Farmer	a		Dem		Chec	Increas e in	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
	711 Cu	uemonstrateu			S	(ha)	High	Low	Averag e	k	yield	Cost	Return	Retur n	(R/C	Cost	Return	Retur n	(R /C
Pulses	Varietal introductio n	Demonstration of VBn 3 Cowpea	VBN 3	Local	10	4	10.4	7.95	9.40	7.17	31	17600	46060	28460	2.62	16860	34416	17556	2.04
Oilseeds	Castor	Demonstration of YTP 1 Castor variety	YTP 1	Local	10	4	16.7	11.6	14.53	11.53	28	27650	89731	62081	3.25	24510	62262	37752	2.54
Cereals	Paddy	Demonstration of VGD 1 Paddy variety	VGD 1	Sowbagy a	10	4	66.8	59.6 0	63.8	56.4	13	54610	138823	84213	2.54	46510	96020	49510	2.06
	Paddy	Demonstration of ADT 53 Paddy variety	ADT 53	Goraknat h 509	10	4	71.5 4	58.6	66.21	57.23	16	51460	125799	74339	2.44	48250	97291	49041	2.02
Commercia																			
1 crops																			
) CII																			
Millets																			
Vegetables																			

Crop Moringa	Thematic Area	technology demonstrated Demonstration on off season	Domo	y/ Hybrid Check	No. of Farmer s			Dem			Imamaaa		(Rs./l	/			(Rs./	,	
•		Demonstration			-			Dem	0		Increas			Net	BCR			Net	BCR
Moringa	ICM		PKM-1			(ha)	High		Averag e	Chec k	e in yield	Gross Cost	Gross Return	Retur n	(R/C	Gross Cost	Gross Return	Retur n	
		production of Moringa in Theni District.	TINT	PKM-1	10	4	364	325	341.5	275	24.2	17500 0	580550	40555	3.32	15500	357500	20250	2.31
Tomato	INM	Demonstration on INM practices by foliar nutrition for enhancement of yield in Tomato	10	1	10	4	34.1	26.5	29.9	24.6	21.4	14250	418040	27554	2.93	13260	295200	16260	2.23
Chilli	INM	Demonstration foliar nutrition of IIHR Vegetable special for enhancement of yield in Chilli	10	1	10	4	24.2	20.5	22.5	17.5	28.6	16740	382670	21527	2.29	14650 0	262500	11600	1.79
Onion	IPM	Demonstratio n of IPDM strategies in Onion	10	1	10	4	400	350	375	350	30	14200	675000	53300	4.75	15300	364000	21100	2.35
Tomato Fruits	IDM	Demonstration on IPDM Package for managing Spotted wilt disease	10	1	10	4	223	330	276	330	37	51650	118845	61195	2.46	48250	100710	52430	2.08

	Th am atta	4s should see		e of the v/ Hybrid	No. of	Are		Yiel	d (q/ha)		%	Econo	omics of d (Rs./		ation	E	conomics (Rs./l		k
Crop	Thematic Area	technology demonstrated	Domo	Check	Farmer	a		Dem		Chec	Increas e in	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
	71104	demonstrated			S	(ha)	High	Low	Averag e	k	yield	Cost	Return	Retur n	(R/C	Cost	Return	Retur n	(R/C)
Grapes	ICM	Demonstration on Double pruning and single harvest in seedless Grape.	Seedles s grapes	Muscat	10	4	252	225	241	205	17.50	47500 0	144540	97040 0	3.04		110700 0	68200 0	2.60
Banana	IDM	Demonstration of IDM practices for management of Panama wilt disease	10	1	10	4	1070	920	995	820	35	22350	112510	90160	5.03	22350	973000	74950 0	4.35
Plantation																			
crops																			
Spices and condiments																			
Condinients																			
Flowers																			
Jasmine	IPM	Demonstration of budworm management in Jasmine	10	1	10	4	8010	7020	7515	6217	25	20000	700376	53642	2.5	15000	250000 0	10000	
							-												

	Thomatia	toohnology		e of the v/ Hybrid	No. of	Are		Yiel	d (q/ha)		% In anaga	Econo	mics of de (Rs./l		ation	Eo	conomics (Rs./l		k
Crop	Thematic Area	technology demonstrated	Domo	Check	Farmer s	a (ha)	High	Dem Low	o Averag e	Chec k	Increas e in yield	Gross Cost	Gross Return	Net Retur n	BCR (R/C	Gross Cost	Gross Return	Net Retur n	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 Livestock

Category	Thematic	Name of the	No. of	No.of Units	Major pa	arameters	%	Other pa	rameter	Econo	mics of d	emonstra	ation	E	conomics	of check	K
	area	technology	Farmer	(Animal/			change				(Rs	.)			(Rs	s.)	
		demonstrated		Poultry/	Demo	Check	in major	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
				Birds, etc)			parameter			Cost	Return	Return	(R / C)	Cost	Return	Return	(R / C)
Cattle																	
Buffalo																	
Dairy																	
Poultry																	
Sheep																	

								• •	
Goat									

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

FLD on Fisheries

	Thematic	Name of the	No. of	No.of	Major pa	rameters	% change	Other pa	rameter	Econom	nics of den	nonstratio	on (Rs.)	E		s of check Rs.)	Ĺ
Category	area	technology demonstrated	Farme r	units	Demons ration	Check	in major paramete r	Demons	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Retur n	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

^{**} BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises

Category	Name of the	No. of	No.of	Price pe	r kg of	% change	Self	f life	Econ	omics of	demonstr	ation		Economic	s of check	
	technology	Farmer	units	man	ıgo	in major			(Rs.	or Rs./10	000 kg ma	ango		(Rs.) or R	ks./Mango	
	demonstrated			Demo	Check	paramete	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						r			Cost	Return	Return	(R/C)	Cost	Return	Return	(R / C)
Value addition	Development of	10	1	49	15	166.67	6	5 days	23700	49000	25300	2.06	15000	20000	5000	1.33
	Value Added						months									İ
	Product AMCHUR															İ
	(Mango Powder)															İ
	from unripe Mango															İ
	for income															İ
	generation (1000 kg															İ
)															I
																1
Vermi Compost																<u> </u>
																·

FLD on Women Empowerment

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

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed obse		% change in major	Labor	reduction	n (man da	nys)		Cost red	uction ./Unit et	rc)
mpiement		demonstrated	Turmer	(III)	parameters	Demo	Check	parameter	Land preparatio	Sowing /Planti ng	Harves ting	Total	Land preparat ion	Sowin g /planti		Total
														ng	ng	
Bhendi ring cutter	Bhendi	Demonstration of Bhendi ring	10	1	Manday/ha	0.125	0.08	56			4	4			800	800
		cutter			BCR	1:2.41	1:1.84									
Vegetable seedling transplanter	Farm mechani zation	Demonstration of vegetable seedling transplanter	10	1	Manday/ha BCR	0.1	0.0625	60		6		6		1800		1800

Bhendi Feed Back from farmers: Easy to operate, no scratches, less time required to harvest

Vegetable Seedling Transplanter Feed Back from farmers: Reduces labour cost, Time saving, easy to implement espeically for tomato, brijal saplings

FLD on Other Enterprise: nutritional garden

Category and	Thematic	Name of the			Yield (Kg	g) / 5 cent	%	у	ield	Econ	omics of d		tion	E	conomics		
Crop	area	technology	Farme	Units			change				(Rs./	ha)			(Rs./l	na)	
		demonstrat	r		Demons	Check	in yield	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
		ed			ration					Cost	Return	Return	(R / C)	Cost	Return	Return	(R/C)
	Nutri	Nutrition	5	5	56	10	460.00			800	3360	2560	4.2	250	600	350	2.4
Vegetables	Garden	Garden in															
		Anganwadi															
		Workers															

Category	Thematic	Name of the	No. of	No. of	Yield	(Kg)	%	Other p	arameters	Econ	omics of o	lemonstra	tion	E	conomics	of check	
and Crop	area	technology	Farme	Units			change				(Rs.	ha)			(Rs./	ha)	
		demonstrat	r		Demons	Check	in yield	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
		ed			ration					Cost	Return	Return	(R / C)	Cost	Return	Return	(R / C)

FLD on Demonstration details on crop hybrids (Details of Hybrid FLDs implemented during 2019-20)

	technology	Hebrid	No. of	Area		Yield (q	/ha)		% Increase	Econor	nics of demo	onstration (1	Rs./ha)
Crop	demonstrated	Hybrid Variety	Farmers	(ha)		Demo		Check	in yield	Gross	Gross	Net	BCR
	demonstrated	variety	Farmers	(па)	High	Low	Average	Check	iii yieid	Cost	Return	Return	(R/C)
Oilseed crop													
Pulse crop													
Cereal crop													
													-
Vegetable													-
crop													
СТОР													
Fruit crop													
Other													
(specify)													

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FLDs conducted with the funding of other sources including CFLD/ATMA/NABARD/other ICAR institutes etc

	Sourc e of		technology	Name of Variety/		No. of	Are		Yiel	d (q/ha)		%	Econo		demonst /ha)	ration	Е	conomics (Rs.		ek
Crop	fund	Themati c Area	demonstrate d	Domo	Chec k	Farmer s	a (ha)		Dem	0	Chec	Increas e in	Gros s	Gross Retur	Net Retur	BCR (R/C	Gros s	Gross Retur	Net Retur	BCR (R/C
			u			3	(IIa)	High	Low	Averag e	k	yield	Cost	n	n)	Cost	n	n)
Kharif	ı			l .	ı	I.		ı				l .	I		ı		ı			
Green gram	ICAR	ICM	CO 8 with ICM	VBN 2	CO 8	25	10	8.4	7.0	7.7	6.2	24	1741 0	51783	34373	2.97	1354 7	29674	16127	2.19
Black gram	ICAR	ICM	VBN 8 with ICM	T 9	VBN 8	25	10	8.6	6.8	7.7	7.5	2.6	1598 9	48360	32371	2.02	1629 7	670800	50783	3.11
	ICAR	ICM	CO 7 with ICM	Local variety (Vella thuvarai	Co 7	50	20	9.2	7.9	8.6	6.7	28	2564 0	59340	33700	2031	2610 0			
Redgram)														46230	20130	1.77
Groundnut	ICAR	ICM	CO 6 with ICM	JL 22	CO 6	25	10	26.6 1	19.2 1	22.34	16.5	35	2865 4	91776	63121	3.2	2762 6	62904	35642	2.3
Sesame	ICAR	ICM	TMV 7 ICM	TMV 3	TMV 7	25	10	7.8	6.25	7.02	6.27	12	2612 2	61774	35652	2.36	2433 0	46594	22264	1.91
Rabi	•		•	•	•		,	•			•	•	•	•	•					•
Green gram	ICAR	ICM	CO 8 with ICM	Local varietyt	CO 8	25	10	7.7	8.6	8.3	6.2	34	1940 0	45650	26250	2.35	2130 0	42250	20950	1.98
Blackgra m	ICAR	ICM	VBN 4 ICM	Local variety	VBN 4	25	10	9.2	8.4	8.8	6.2	42	2350	57720	34220	2.46	2130 0	42250	20950	1.90
Groundnut	ICAR	ICM	Kidiri 9 with ICM	JL 22	Kidiri 9	25	10	26.6 1	19.1 7	22.04	16.57	33	2806 7	80867	52800	2.88	2750 0	62996	35496	2.29
Sesame	ICAR	ICM	TMV 7 with ICM	TMV 3	TMV 7	25	10	7.9	6.0	6.95	5.2	34	1884 1	45904	27363	2.4	1984 5	42660	22815	2.1

FLD on Livestock

Category	Thematic area	Name of the technology	No. of Farmer	No.of Units	Major pa	arameters	% change	Other pa	rameter	Econo	mics of d (Rs		ation	Ec	conomics (Rs	k
		demonstrated		(Animal/ Poultry/ Birds, etc)	Demo	Check	in major parameter	Demo	Check	Gross Cost	Gross Return	Net Return		Gross Cost	Gross Return	BCR (R/C)
Cattle																
Buffalo																
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

	Thematic	Name of the	No. of	No.of	Major pa	rameters	% change	Other pa	rameter	Econom	nics of den	nonstratio	on (Rs.)	E		es of check Rs.)	Ĺ
Category	area	technology demonstrated	Farme r	units	Demons ration	Check	in major paramete r	Demons	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Retur n	Net Return	BCR (R/C
																,	

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

FLD on Other enterprises

Category	Name of the	No. of		Maj			Other p	arameter	Econ		demonstr	ation			s of check	
	technology	Farmer	units	param	eters	in major				(Rs.) or	Rs./unit			(Rs.) or	Rs./unit	
	demonstrated			Demo	Check	paramete	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						r			Cost	Return	Return	(R / C)	Cost	Return	Return	(R / C)

^{**} BCR= GROSS RETURN/GROSS COST

FLD on Women Empowerment

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

FLD on Farm Implements and Machinery

Name of the	Crop	Technology	No. of	Area	Major	File	ed	% change	Labor	reduction	ı (man da	ys)		Cost red	uction	
implement		demonstrated	Farmer	(ha)	parameters	observ	ation	in major					(Rs./	ha or Rs	./Unit et	c.)
						(output	t/man	parameter								
						hou	r)									
						Demo	Check		Land	Sowing	Weedin	Total	Land	Labou	Irrigat	Total
									preparatio		g		preparat	r	ion	
									n				ion			

4. Training Programmes

Farmers' Training including sponsored training programmes (on campus)

Farmers' Training in Thematic area	No. of	ponsor		, progra		Participan				
Thematic area	courses		Others		1	SC/ST	1.5		Grand Tot	al
	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production		iviaic	Temare	1000	iviaic	Temate	10441	TVILLE	Temate	1000
Weed Management	1	15	0	15	4	0	4	19	0	19
Resource								-		
Conservation										
Technologies	1	31	0	31	0	0	0	31	0	31
Cropping Systems	1	9	2	11	0	3	3	9	5	14
Crop										
Diversification										0
Integrated Farming	1	5	11	16	4	2	6	9	13	22
Micro										
Irrigation/irrigation	2	13	4	17	5	2	7	18	6	24
Seed production	1	15	0	15	0	0	0	15	0	15
Nursery										
management										0
Integrated Crop										
Management	1	18	17	35	0	0	0	18	17	35
Soil & water										
conservatioin										
Integrated nutrient										
management										
Production of										
organic inputs										
Others (pl specify)	1	15	0	15	0	0	0	15	0	15
Total	9	121	34	155	13	7	20	134	41	175
II Horticulture										
a) Vegetable										
Crops										
Production of low										
value and high										
valume crops										
Off-season										
vegetables										
Nursery raising	1	16	6	22	0	0	0	16	6	22
Exotic vegetables										
Export potential										
vegetables										
Grading and										
standardization										
Protective	1	1,4		22				1.4		22
Cultivation (all and aife)	1	14	9	23	0	0	0	14	9	23
Others (pl specify)	2	20	1.5	4.5	0	0	0	20	1.5	15
Total (a)	2	30	15	45	0	0	0	30	15	45
b) Fruits										
Training and	1	12		10				1.5		21
Pruning	1	13	6	19	2	0	2	15	6	21
Layout and	<u> </u>]]	

Thematic area	No. of				I	Participan	ts			
	courses		Others			SC/ST		(Frand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Management of										
Orchards										
Cultivation of Fruit	1	16	5	21	0	0	0	16	5	21
Management of										
young										
plants/orchards										
Rejuvenation of										
old orchards										
Export potential										
fruits										
Micro irrigation										
systems of										
orchards										
Plant propagation										
techniques										
Others (pl specify)										
Total (b)	2	29	11	40	2	0	2	31	11	42
c) Ornamental										
Plants										
Nursery										
Management										
Management of										
potted plants										
Export potential of										
ornamental plants										
Propagation										
techniques of										
Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation										
crops										
Production and										
Management										
technology	1	16	4	21	3	1	4	20	5	24
Processing and										
value addition										
Others (pl specify)										
Total (d)	1	16	4	21	3	1	4	20	5	24
e) Tuber crops										
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (e)				1						
f) Spices										

Thematic area	No. of				F	Participan	ts			
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and										
Aromatic Plants										
Nursery										
management										
Production and										
management										
technology										
Post harvest										
technology and										
value addition										
Others (pl specify)										
Total (g)										
GT (a-g)	5	75	30	106	5	1	6	81	31	111
III Soil Health										
and Fertility										
Management										
Soil fertility	1	19	3							
management				22	0	0	0	19	3	22
Integrated water	0	0	0							
management				0	0	0	0	0	0	0
Integrated Nutrient	1	15	4							
Management				19	2	0	2	17	4	21
Production and use	1	17	4							
of organic inputs				21	0	0	0	17	4	21
Management of	0	0	0							
Problematic soils				0	0	0	0	0	0	0
Micro nutrient										
deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use	1	12	4							
Efficiency				16		0	0	12	4	16
Balance use of	1	35	7							
fertilizers				42		0	0	35	7	42
Soil and Water	1	15	5							
Testing				20	8	0	8	23	5	28
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	6	113	27	140	10	0	10	123	27	150
IV Livestock										
Production and										
Management										
Dairy Management										
Poultry										
	I	l	l	l	<u> </u>	<u> </u>	l		<u> </u>	<u> </u>

Thematic area	No. of				I	Participant	ts			
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Management										
Piggery										
Management										
Rabbit										
Management										
Animal Nutrition										
Management										
Disease										
Management										
Feed & fodder										
technology										
Production of										
quality animal										
products										
Others (pl specify)										
Total										
V Home										
Science/Women										
empowerment										
Household food										
security by kitchen	1	0	18	18	0	9	9	0	27	27
gardening and										
nutrition gardening										
Design and										
development of										
low/minimum cost										
diet										
Designing and										
development for										
high nutrient										
efficiency diet										
Minimization of										
nutrient loss in										
processing										
Processing and										
cooking										
Gender										
mainstreaming										
through SHGs										
Storage loss										
minimization										
techniques										
Value addition	1	4	5	9	0	13	13	4	18	22
Women			_	-	-	_			-	
empowerment										
Location specific										
drudgery reduction										
technologies										
termorogies	1	<u> </u>						<u> </u>		<u> </u>

Thematic area	No. of				I	Participan	ts			
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Rural Crafts	2	9	10	19	0	1	1	9	11	20
Women and child										
care										
Others (pl specify)										
Total	4	13	33	46	0	23	23	13	56	69
VI Agril.		_				_	_			
Engineering										
Farm Machinary										
and its										
maintenance										
Installation and										
maintenance of										
micro irrigation										
systems										
Use of Plastics in										
farming practices										
Production of small										
tools and										
implements										
Repair and										
maintenance of										
farm machinery										
and implements										
Small scale										
processing and value addition										
Post Harvest										
Technology										
Others (pl specify)										
Total										
VII Plant										
Protection										
Integrated Pest										
Management	2	30	4	34	5	2	7	35	6	41
Integrated Disease										
Management	1	19	2	21	3	4	7	22	6	28
Bio-control of										
pests and diseases	2	17	7	24	0	1	1	17	8	25
Production of bio										
control agents and										
bio pesticides	1	14	0	14	1	3	4	15	3	18
Others (pl specify)										
Total	6	80	13	93	9	10	19	89	23	112
VIII Fisheries										
Integrated fish										
farming										
Carp breeding and										
hatchery										

Thematic area	No. of				I	Participan	ts			
	courses		Others			SC/ST		(Grand Total	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
management										
Carp fry and										
fingerling rearing										
Composite fish										
culture										
Hatchery										
management and										
culture of										
freshwater prawn										
Breeding and										
culture of										
ornamental fishes										
Portable plastic										
carp hatchery										
Pen culture of fish										
and prawn										
Shrimp farming										
Edible oyster										
farming										
Pearl culture										
Fish processing										
and value addition										
Others (pl specify)										
Total										
IX Production of										
Inputs at site										
Seed Production										
Planting material										
production										
Bio-agents										
production										
Bio-pesticides				 						
production										
Bio-fertilizer				 						
production										
Vermi-compost				1						
production										
Organic manures				1						
production										
Production of fry				1						
and fingerlings										
Production of Bee-				1						
colonies and wax										
sheets										
Small tools and				1						
implements Production of				1						
livestock feed and				<u> </u>						

Thematic area	No. of				I	Participan	ts			
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
fodder										
Production of Fish										
feed										
Mushroom										
Production										
Apiculture										
Others (pl specify)										
Total										
X										
CapacityBuilding										
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	30	402	137	540	37	41	78	440	178	617

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of				I	Participant	ts				
	courses		Others			SC/ST		(Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
I Crop Production											
Weed Management	1	12	14	26	0	0	0	12	14	26	
Resource											
Conservation											
Technologies											
Cropping Systems											

Thematic area	No. of				I	Participant	ts			
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop										
Diversification	1	17	5	22	4	2	6	21	7	28
Integrated Farming				0			0	0	0	0
Micro										
Irrigation/irrigation	1	25	0	25	0	0	0	25	0	25
Seed production										0
Nursery										
management										0
Integrated Crop										
Management										0
Soil & water										
conservatioin										0
Integrated nutrient										
management										0
Production of										
organic inputs										
Others (pl specify)	2	51	0	51	10	0	10	61	0	61
Total	5	105	19	124	14	2	16	119	21	140
II Horticulture		100				_				1.0
a) Vegetable										
Crops										
Production of low										
value and high										
valume crops										
Off-season										
vegetables										
Nursery raising	2	27	10	40		0		10	12	7. 4
Exotic vegetables	2	37	12	49	5	0	5	42	12	54
Export potential				0			0	0	0	0
vegetables Grading and										
standardization										
Protective										
				2.2			0			
cultivation (11 and 15)	1	15	8	23	0	0	0	15	8	23
Others (pl specify)								_		
Total (a)	3	52	20	72	5	0	5	57	20	77
b) Fruits										
Training and										
Pruning										
Layout and										
Management of										
Orchards										
Cultivation of Fruit	3	48	14	62	7	0	7	55	14	69
Management of										
young										
plants/orchards										
Rejuvenation of										
old orchards	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>	<u> </u>		<u></u>	<u> </u>	

Thematic area	No. of				I	Participant	ts			
	courses		Others			SC/ST		(Grand Tota	al
	0001505	Male	Female	Total	Male	Female	Total	Male	Female	Total
Export potential										
fruits										
Micro irrigation										
systems of										
orchards	1	25	4	29	5	0	5	30	4	34
Plant propagation	1							30		51
techniques										
Others (pl specify)										
Total (b)	4	73	18	91	12	0	12	85	18	103
c) Ornamental	•	75	10	71	12		12	- 05	10	100
Plants										
Nursery										
Management										
Management of										
potted plants										
Export potential of										
ornamental plants										
Propagation Propagation										
techniques of										
Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation										
crops										
Production and										
Management										
technology	1	27	8	35	6	0	6	33	8	41
Processing and	1	21	0	33	0	0	0	33	0	41
value addition	1	24	7	31	0	0	0	24	7	31
Others (pl specify)	1	24	/	31	0	0	0	24	/	31
Total (d)	2	51	15	66	6	0	6	57	15	72
e) Tuber crops	<u> </u>	51	15	00	0	U	0	57	15	12
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and										
Management										
technology Processing and										
Processing and										
value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and										

	No. of courses	Male 176	Others Female	Total	Male	SC/ST Female	Total	Male	Female	al Total
Aromatic Plants Nursery management Production and management technology Post harvest technology and value addition Others (pl specify) Total (g) GT (a-g) III Soil Health and Fertility Management	9		Female		Male		Total			
Nursery management Production and management technology Post harvest technology and value addition Others (pl specify) Total (g) GT (a-g) III Soil Health and Fertility Management										
management Production and management technology Post harvest technology and value addition Others (pl specify) Total (g) GT (a-g) III Soil Health and Fertility Management		176	53	229						
management Production and management technology Post harvest technology and value addition Others (pl specify) Total (g) GT (a-g) III Soil Health and Fertility Management		176	53	229						
Production and management technology Post harvest technology and value addition Others (pl specify) Total (g) GT (a-g) III Soil Health and Fertility Management		176	53	229						
rechnology Post harvest technology and value addition Others (pl specify) Total (g) GT (a-g) III Soil Health and Fertility Management		176	53	229						
rechnology Post harvest technology and value addition Others (pl specify) Total (g) GT (a-g) III Soil Health and Fertility Management		176	53	229						
Post harvest technology and value addition Others (pl specify) Total (g) GT (a-g) III Soil Health and Fertility Management		176	53	229						
value addition Others (pl specify) Total (g) GT (a-g) III Soil Health and Fertility Management		176	53	229						
value addition Others (pl specify) Total (g) GT (a-g) III Soil Health and Fertility Management		176	53	229						
Total (g) GT (a-g) III Soil Health and Fertility Management		176	53	229						
Total (g) GT (a-g) III Soil Health and Fertility Management		176	53	229						
GT (a-g) III Soil Health and Fertility Management		176	53	229						
III Soil Health and Fertility Management		170	33		23	0	23	199	53	252
and Fertility Management	1				23	U	23	177	33	
Management	1									
	1									
Son retuinty	-	15	3		0	0	0			
management		10	3	29	Ü	Ü	Ü	25	4	29
Integrated water	0	0	0	27	0	0	0	25	•	
management	O	O	O	0	O	O	Ü	0	0	0
Integrated Nutrient	1	12	5	0	0	0	0	<u> </u>	Ü	
Management	1	12	5	26	O	O	Ü	22	4	26
Production and use	1	18	4	20	0	0	0	LL	т —	
of organic inputs	1	10	т	18	O	O	O	15	3	18
Management of	1	11	7	10	0	0	0	13	3	
Problematic soils	1	11	,	0	O	O	Ü	0	0	0
Micro nutrient	1	15	4	Ü	0	0	0	Ü	Ü	
deficiency in crops	1	10	,	17	Ü	Ü	Ü	12	5	17
Nutrient Use	1	15	3		0	0	0			
Efficiency	1	10	3	22	Ü	Ü	Ü	18	4	22
Balance use of					0	0	0	10		
fertilizers				18	Ü	Ü	Ü	11	7	18
Soil and Water	1	12	5	10	12	0			,	
Testing	1	12	5	19	12	Ü	12	27	4	31
Others (pl specify)										
Total	7	118	31	149	12	0	12	130	31	161
IV Livestock	,	110	31	142	12	U	12	130	31	
Production and										
Management										
Dairy Management										
Poultry										
Management										
Piggery										
Management										
Rabbit										
Management										
Animal Nutrition										
Management Management										
Disease										

Thematic area	No. of				I	Participan	ts			
	courses		Others			SC/ST		(Frand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Management										
Feed & fodder										
technology										
Production of										
quality animal										
products										
Others (pl specify)										
Total										
V Home										
Science/Women										
empowerment										
Household food										
security by kitchen		_						_		
gardening and	1	0	0	0	1	14	15	1	14	15
nutrition gardening										
Design and										
development of										
low/minimum cost										
diet										
Designing and										
development for										
high nutrient										
efficiency diet										
Minimization of										
nutrient loss in										
processing										
Processing and										
cooking	1	38	14	52	12	2	14	50	16	66
Gender										
mainstreaming										
through SHGs										
Storage loss										
minimization										
techniques										
Value addition	5	14	23	37	4	50	54	18	73	91
Women										
empowerment										
Location specific										
drudgery reduction	1	5	13	18	0	0	0	5	13	18
technologies										
Rural Crafts										
Women and child										
care										
Others (pl specify)										
Total	8	57	50	107	17	66	83	74	116	190
VI Agril.			- 50	107	1/	00	0.5	,-	110	170
Engineering										
Farm Machinary		 								

Thematic area	No. of				I	Participan	ts			
	courses		Others			SC/ST		(Grand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
and its										
maintenance										
Installation and										
maintenance of										
micro irrigation										
systems										
Use of Plastics in										
farming practices										
Production of small										
tools and										
implements										
Repair and										
maintenance of										
farm machinery										
and implements										
Small scale										
processing and value addition										
Post Harvest										
Technology										
Others (pl specify)										
Total										
VII Plant										
Protection										
Integrated Pest										
Management	2	23	7	30	2	1	3	25	8	33
Integrated Disease										
Management	1	19	6	25	1	3	4	20	9	29
Bio-control of										
pests and diseases	1	17	3	20	3	2	5	20	5	25
Production of bio										
control agents and										
bio pesticides	1	14	2	16	1	0	1	15	2	17
Others (pl specify)										
Total	5	73	18	91	7	6	13	80	24	104
VIII Fisheries										
Integrated fish										
farming										
Carp breeding and										
hatchery										
management										
Carp fry and										
fingerling rearing										
Composite fish										
culture										
Hatchery										
management and										
culture of										
culture of										

Thematic area	No. of				I	Participan	ts			
	courses		Others			SC/ST			Grand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
freshwater prawn										
Breeding and										
culture of										
ornamental fishes										
Portable plastic										
carp hatchery										
Pen culture of fish										
and prawn										
Shrimp farming										
Edible oyster										
farming										
Pearl culture										
Fish processing										
and value addition										
Others (pl specify)										
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-				1						
colonies and wax										
sheets										
Small tools and				-						
implements										
Production of	1			-						
livestock feed and										
fodder										
Production of Fish				-						
feed										
Mushroom				-						
Production Production										
				-						
Apiculture				1						
Others (pl specify)										
Total										

Thematic area	No. of				I	Participan	ts			
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	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	34	529	171	700	73	74	147	602	245	847

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

Thematic area	No. of				F	Participan	ts			
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	2	27	14	41	4	0	4	31	14	45
Resource										
Conservation										
Technologies	1	31	0	31	0	0	0	31	0	31
Cropping Systems	1	9	2	11	0	3	3	9	5	14
Crop										
Diversification	1	17	5	22	4	2	6	21	7	28
Integrated Farming	1	5	11	16	4	2	6	9	13	22
Micro										
Irrigation/irrigation	3	38	4	42	5	2	7	43	6	49
Seed production	1	15	0	15	0	0	0	15	0	15
Nursery										
management	0	0	0	0	0	0	0	0	0	0

Thematic area	No. of				F	Participan	ts			
	courses		Others			SC/ST		(Grand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Crop										
Management	1	18	17	35	0	0	0	18	17	35
Soil & water										
conservatioin	0	0	0	0	0	0	0	0	0	0
Integrated nutrient										
management	0	0	0	0	0	0	0	0	0	0
Production of										
organic inputs	0	0	0	0	0	0	0	0	0	0
Others (pl specify)										
	3	66	0	66	10	0	10	76	0	76
Total	14	226	53	279	27	9	36	253	62	315
II Horticulture	17	220	33	217	27		30	200	02	313
a) Vegetable										
Crops										
Production of low										
value and high										
valume crops										
Off-season										
vegetables										
Nursery raising	3	53	18	71	5	0	5	58	18	76
Exotic vegetables		33	10	/1		0	3	30	10	70
Export potential										
vegetables										
Grading and										
standardization										
Protective										
cultivation	2	29	17	46	0	0	0	29	17	46
Others (pl specify)					Ů					
Total (a)	5	82	35	117	5	0	5	87	35	122
b) Fruits		02						0,		122
Training and										
Pruning	1	13	6	19	2	0	2	15	6	21
Layout and										
Management of										
Orchards										
Cultivation of Fruit	4	64	19	83	7	0	7	71	19	90
Management of										
young										
plants/orchards										
Rejuvenation of										
old orchards										
Export potential										
fruits										
Micro irrigation										
systems of										
orchards	1	25	4	29	5	0	5	30	4	34
Plant propagation										
techniques										

Thematic area	No. of				I	Participan	ts			
	courses		Others			SC/ST		(Frand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl specify)										
Total (b)	6	102	29	131	14	0	14	116	29	145
c) Ornamental										
Plants										
Nursery										
Management										
Management of										
potted plants										
Export potential of										
ornamental plants										
Propagation										
techniques of										
Ornamental Plants										
Others (pl specify)										
Total (c)	13	231	58	289	22	0	22	253	58	311
d) Plantation										
crops										
Production and										
Management										
technology	1	16	4	21	3	1	4	20	5	24
Processing and										
value addition	1	24	7	31	0	0	0	24	7	31
Others (pl specify)										
Total (d)	3	67	19	87	9	1	10	77	20	96
e) Tuber crops		07	12	07			10	,,,	20	70
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and										
Aromatic Plants										
Nursery						1	1			
management										
Production and						1	1			
management										
technology										
Post harvest										
1 OST HAI VOST				1			l		<u> </u>	<u> </u>

Thematic area	No. of				F	Participant	S			
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
technology and										
value addition										
Others (pl specify)										
Total (g)										
GT (a-g)	14	251	83	335	28	1	29	280	84	363
III Soil Health		201	00	335				200	0.1	200
and Fertility										
Management										
Soil fertility										
management	2	34	6	51	0	0	0	44	7	51
Integrated water	2	34	0	31	0	0			,	31
management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient	0	U	U	0	U	U	U	U	U	U
Management Management	2	27	9	45	2	0	2	39	8	47
Production and use		2.1	9	43		U		39	8	4/
of organic inputs	2	35	8	39	0	0	0	32	7	39
Management of	2	33	8	39	U	U	U	32	/	39
Problematic soils	1	11	7		^	_	^	_	_	_
Micro nutrient	1	11	7	0	0	0	0	0	0	0
	1	1.5	4	17	0	0	0	10	~	17
deficiency in crops Nutrient Use	1	15	4	17	0	0	0	12	5	17
		27	_	20	0	0		20	0	20
Efficiency	2	27	7	38	0	0	0	30	8	38
Balance use of			_		_	_	_			
fertilizers	1	35	7	60	0	0	0	46	14	60
Soil and Water										
Testing	2	27	10	39	20	0	20	50	9	59
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	13	211	58	289	22	0	22	253	58	311
IV Livestock										
Production and										
Management										
Dairy Management										
Poultry										
Management										
Piggery										
Management										
Rabbit										
Management										
Animal Nutrition										
Management										
Disease										
Management										
Feed & fodder										
technology										
Production of										
quality animal										
products										
Others (pl specify)										

Thematic area	No. of				I	Participan	ts			
	courses		Others			SC/ST		(Grand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Total										
V Home										
Science/Women										
empowerment										
Household food										
security by kitchen										
gardening and										
nutrition gardening	2	0	18	18	1	23	24	1	41	42
Design and										
development of										
low/minimum cost										
diet										
Designing and										
development for										
high nutrient										
efficiency diet										
Minimization of										
nutrient loss in										
processing										
Processing and										
cooking	1	38	14	52	12	2	14	50.	16	66
Gender										
mainstreaming										
through SHGs										
Storage loss										
minimization										
techniques										
Value addition	6	18	28	46	4	63	67	22	91	113
Women										
empowerment										
Location specific										
drudgery reduction										
technologies	1	5	13	18	0	0	0	5	13	18
Rural Crafts										
Women and child										
care	2	9	10	19	0	1	1	9	11	20
Others (pl specify)										
Total	12	70	83	153	17	89	106	87	172	259
VI Agril.			32			0,2				
Engineering										
Farm Machinary										
and its										
maintenance										
Installation and										
maintenance of										
micro irrigation										
systems										
Use of Plastics in		-		-		-	-	-		-

Thematic area	No. of				I	Participant	ts			
Thomasic area	courses		Others		<u> </u>	SC/ST		(Grand Total	al
	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
farming practices		112020	2 0224120	10001	112020	2 022202	10001	112020	2 02240	20002
Production of small										
tools and										
implements										
Repair and										
maintenance of										
farm machinery										
and implements										
Small scale										
processing and										
value addition										
Post Harvest										
Technology										
Others (pl specify)										
Total										
VII Plant										
Protection										
Integrated Pest										
Management	4	53	11	64	7	3	10	60	14	74
Integrated Disease										
Management	2	38	8	46	4	7	11	42	15	57
Bio-control of										
pests and diseases	3	34	10	44	3	3	6	37	13	50
Production of bio										
control agents and										
bio pesticides	2	28	2	30	2	3	5	30	5	35
Others (pl specify)										
Total	11	153	31	184	16	16	32	169	47	216
VIII Fisheries										
Integrated fish										
farming										
Carp breeding and										
hatchery										
management										
Carp fry and										
fingerling rearing										
Composite fish										
culture										
Hatchery										
management and										
culture of										
freshwater prawn										
Breeding and										
culture of										
ornamental fishes										
Portable plastic										
carp hatchery										

Thematic area	No. of				I	Participan	ts			
	courses		Others			SC/ST		(Grand Total	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
and prawn										
Shrimp farming										
Edible oyster										
farming										
Pearl culture										
Fish processing										
and value addition										
Others (pl specify)										
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										
CapacityBuilding										
and Group										
Dynamics										
Leadership										
development										
Group dynamics										

Thematic area	No. of				F	Participan	ts			
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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	64	931	308	1240	110	115	225	1042	423	1464

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

	NT C]	No. of	Particip	ants			
A of t	No. of	(General			SC/ST		G	rand To	tal
Area of training	Cours es	Male	Fem ale	Total	Mal e	Fem ale	Tota l	Ma le	Fem ale	Tot al
Nursery Management										
of Horticulture crops										
Training and pruning										
of orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit										
production										
Integrated farming										
Seed production	1	12	5	17	3	0	3	15	5	20
Production of organic										
inputs										
Planting material										
production										
Vermi-culture										
Mushroom Production	1	17	6	23	1	1	2	18	7	25
Bee-keeping	2	27	9	36	3	1	4	30	10	40
Sericulture	1	14	3	17	1	2	3	15	5	20
Repair and										
maintenance of farm										

machinery and										
implements										
Value addition										
Small scale processing										
Post Harvest										
Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality										
animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn										
culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and										
processing technology										
Fry and fingerling										
rearing	_									
Any other (pl.specify)										
TOTAL	5	70	23	93	8	4	12	78	27	105

Training for Rural Youth including sponsored training programmes (Off campus)

Training for Rurar 100		<u> </u>				Particip				
Area of training	No. of Cours	(General			SC/ST		G	rand To	tal
Area of training	es	Male	Fem ale	Total	Mal e	Fem ale	Tota l	Ma le	Fem ale	Tot al
Nursery Management										
of Horticulture crops										
Training and pruning										
of orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit										
production										
Integrated farming										
Seed production										
Production of organic										
inputs										
Planting material										
production										
Vermi-culture										
Mushroom Production	1	11	14	25	1	0	1	14	14	28
Bee-keeping	1	20	13	33	3	1	4	23	14	37

Sericulture	1	16	10	26	2	3	5	18	13	31
Repair and										
maintenance of farm										
machinery and										
implements										
Value addition										
Small scale processing										
Post Harvest										
Technology										Ì
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	3	47	37	84	6	4	10	55	41	96

$\label{eq:consolidated} Training \ for \ Rural \ Youths \ including \ sponsored \ training \ programmes - CONSOLIDATED \ (On + Off \ campus)$

	Na af]	No. of	Particip	ants			
Area of training	No. of Cours	(General			SC/ST		G	rand To	tal
Area or training	es	Male	Fem ale	Total	Mal e	Fem ale	Tota l	Ma le	Fem ale	Tot al
Nursery Management										
of Horticulture crops										
Training and pruning										
of orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit										
production										
Integrated farming										
Seed production	1	12	5	17	3	0	3	15	5	20
Production of organic										
inputs										

Planting material										
production										
Vermi-culture										
Mushroom Production	2	28	20	48	2	1	3	32	21	53
Bee-keeping	3	47	22	69	6	2	8	53	24	77
Sericulture	2	30	19	49	3	5	8	33	18	51
Repair and										
maintenance of farm										
machinery and										
implements										
Value addition										
Small scale processing										
Post Harvest										
Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality										
animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn										
culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and										
processing technology										
Fry and fingerling										
rearing										
Any other (pl.specify)										
TOTAL	8	117	66	183	14	8	22	133	68	201

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

Training programmes for Extension Fersonia		No. of Participants General SC/ST Grand Total								
Area of training	Cou rses	M ale	Fe mal e	To tal	M ale	Fe mal e	To tal	M ale	Fe mal e	To tal
Productivity enhancement in field crops		20	5	25	0	0	0	20	5	25
Integrated Pest Management		17	5	22	5	1	6	22	6	28
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										
Agri Nutri Garden, Nutri Thali and Biofortied	1	5	55	60	0	12	12	5	67	72
Varieties for Anganwadi workers	1)	33	00	U	12	12	3	07	12
TOTAL				10						12
	3	42	65	7	5	13	18	47	78	5

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

Training programmes for Extension Pe	No.					Partic				
A was of twoining	of		General	<u> </u>		SC/ST			and To	tal
Area of training	Cour	Ma	Fem	Tot	Ma	Fem	Tot	Ma	Fem	Tot
	ses	le	ale	al	le	ale	al	le	ale	al
Productivity enhancement in field crops										
Integrated Pest Management	1	14	3	17	1	2	3	15	5	20
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	1	14	3	17	1	2	3	15	5	20

					N	o. of	Partic	cipan	ts		
			(Genera	ıl		SC/ST	1	Gr	and	Total
Area of training	No. of Courses		M al e	Fe mal e	T ot al	M al e	Fe mal e	T ot al	M al e	F e m a l	Tota l
Productivity enhancement in field crops	1		20	5	25	0	0	0	20	5	25
Integrated Pest Management	2		31	8	39	6	3	9	37	1 1	
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											
Agri Nutri Garden, Nutri Thali and Biofortied Varieties for Anganwadi workers	1		5	55	60	0	12	12	5	6 7	72
TOTAL		4	56	68	12 4	6	15	21	62	8	97

Table. Sponsored training programmes

	No. of				No. o	f Partic	ipants			
Area of training	Cours		General			SC/ST		G	rand To	tal
	es	Ma	Fem	Tot	Ma	Fem	Tot	Ma	Fem	Tot
		le	ale	al	le	ale	al	le	ale	al
Crop production and										
management										
Increasing production and										
productivity of crops										
Commercial production of										
vegetables										
Production and value addition										
Fruit Plants										

GRAND TOTAL	6	49	52	101	19	27	46	68	79	147
Total										
Others (pl. specify)										
Dynamics										
CapacityBuilding and Group										
Agricultural Extension										
Total	2	20	12	32	2	6	8	22	18	40
Others (pl. specify)										
Drudgery Reduction of Women	2	20	12	32	2	6	8	22	18	40
Economic empowerment of women										
Household nutritional security										
Home Science			-							
Total										
Others (pl. specify)										
Fisheries Management										
Fisheries Nutrition										
Animal Disease Management										
Animal Nutrition Management										
management										
Livestock production and										
Livestock and fisheries										
Total										
Others (pl. specify)										
implements										
Farm machinery, tools and										
Farm machinery										
Total	3	21	38	59	3	17	20	24	55	79
Others (pl. specify)										
Spirulina value addition	2	0	37	37	0	13	13	0	50	50
Processing and value addition	1	21	1	22	3	4	7	24	5	29
value addition										
Post harvest technology and	1			10	11	· ·				
Total	1	8	2	10	14	4	18	22	6	28
Bee Keeping	1	8	2	10	14	4	18	22	6	28
Methods of protective cultivation										
Production of Inputs at site										
Soil health and fertility management										
Spices crops										
G										

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

Area of training Crop production and	of Cour ses		General			SC/ST			rand To	
			General			いしつし		(G	rana To	tal
Crop production and	ses		Femal			Fema		Mal	Fema	Tota
Crop production and		Male	e	Total	Male	le	Total	e	le	l
management										
Commercial floriculture										
Commercial fruit										
production										
Commercial vegetable										
production										
Integrated crop										
management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology										
and value addition										
Value addition	1	13	14	27	0	3	3	13	17	30
Others (pl. specify)										
Total	1	13	14	27	0	3	3	13	17	30
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation										
activities										
Vermicomposting										
Production of bio-agents,										
bio-pesticides,										
bio-fertilizers etc.										
Repair and maintenance										
of farm machinery										
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching,										
embroidery, dying etc.										
Agril. para-workers,										
para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										

										77
Capacity building and										
group dynamics										
Others (pl. specify)										
Total										
Grand Total	1	13	14	27	0	3	3	13	17	30

5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	37	49	7	93
Diagnostic visits	63	241	97	401
Field Day	21	450	67	538
Group discussions	15	774	42	831
KisanGhosthi	4	147	10	161
Film Show	3	625	46	674
Self -help groups	2	25	0	27
KisanMela	2	1200	67	1269
Exhibition	11	790	120	921
Scientists' visit to farmers field	41	194	17	252
Plant/animal health camps	3	217	15	235
Farm Science Club	7	140	0	147
Ex-trainees Sammelan				0
Farmers' seminar/workshop	2	141	17	160
Method Demonstrations	5	352	13	370
Celebration of important days	4	280	18	302
Special day celebration	1	300	5	306
Exposure visits	6	208	0	214
Field visit	245	536	0	781
Telephone enquiry	1205	1205	0	2410
Home visit	33	99	0	132
Lecture delivered	41	1985	67	2093
Total	1751	9958	608	12317

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	8
Extension Literature	16
News paper coverage	37
Popular articles	7
Radio Talks	12
TV Talks	52
Animal health amps (Number of animals treated)	117
Research articles	4
Success stories recorded	7
Farmers visit to KVK	1520
Total	1780

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: 2300

Types of						T	ype of n	nessag	ges					
Messages	C	rop	Lives	tock	Wea	ther	Mark	eting	Awar	eness	Oth enter		Т	'otal
	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	48	20410	0	0	3	57	0	0	0	0	0	0	51	20467
Voice only														
Voice & Text both														
Total Messages	48	20410	0	0	3	57	0	0	0	0	0	0	51	20467
Total farmers Benefitted	48	20410	0	0	3	57	0	0	0	0	0	0	51	20467

MOBILE ADVISORY SERVICES THROUGH OTHERS

(While filling mobile advisory data, only fill numbers under 'Type of messages'. Please don't add any text) No of registered farmers: 2300

Types of							Type	of mes	sages					
Messages	C	rop	Lives	Livestock		ther	Mark	eting	Awa	reness	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	46	5400	0	0	0	0	0	0	56	9200	36	6700	138	21300
Voice only	0	0	0	0	0	0	0		0	0	15	750	15	750
Voice & Text both														
Total Messages	46	5400	0	0	0	0	0	0	56	9200	51	7450	153	220520
Total farmers	16	5400	0	0	0	0	0	0	56	0200	5.1	7450	152	220520
Benefitted	46	5400	0	0	0	0	0	0	56	9200	51	7450	153	220520

6. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Gosthies			
Lectures organised			
Exhibition			
Film show			
Fair			
Farm Visit			

Diagnostic Practicals	
Distribution of Literature (No.)	
Distribution of Seed (q)	
Distribution of Planting materials (No.)	
Bio Product distribution (Kg)	
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

 $\label{eq:condition} \textbf{Production of seeds by the KVKs} \ (\textbf{give quantity of seed in quintals only })$

	lion of seeds by the 1		Sec	ed				ed to far	mers		Sec suppli	
Enter	Name of crop	Va rie	Qua	Val	I	ree seed			riced see	d	oth agen	er
prise	•	ty	ntity (q)	ue (Rs)	Qua ntity (q)	No of farm ers	Val ue (Rs)	Qua ntity (q)	No of farm ers	Val ue (Rs)	Qua ntity (q)	Val ue (Rs)
CERE												
ALS	Wheat											
	Paddy											
	Maize											
	Sorghum (Jowar/Cholam/Jo nna)											
	Pearl Millet	С										
	(Bajra/Cumbu/Sajj	О		164			492			902		656
	a)	10	4	00	1.2	27	0	2.2	38	0	1.6	0
	Finger millet											
	(Ragi)											
	Foxtail Millet (Korra/Thenai)											
	Barnyard Millet (Kuthiraivali/Udal u, Kodisama)											
	Kodo Millet (Varagu/Arikelu)											
	Little Millet (Samai/Samalu)											
	Proso Millet (PaniVaragu/varig a)											
	Barley											
	Brown top millet											
	Total Cereals											
OIL SEED		C 0	4.0	312	4.0	10	312	0	0	^	0	
S	Groundnut	6	4.8	00	4.8	12	00	0	0	0	0	0
	Sunflower											

Т	1	ı			1	-			ı	1	81
Sesame											
Castor											
Niger											
Soybean											
			212			212					
Total Off Code		10		10	12		0	0	0	0	0
	0	4.8	00	4.8	12	00	U	0	U	0	0
,											
	С										
	О		200						200		
Green gram		2.5	00	0	0	0	2.5	26	00	0	0
			222						222		
Black gram		2.8		0	0	0	2.8	38		0	0
		2.0	40	· ·	0	U	2.0	30	40	0	0
Field pea			422						422		
Total Pulses		5.3	432	0	0	0	5.3	64	432	0	0
Bhendi											
(Okra/Ladies											
finger)											
French bean											
Radish											
Onion											
Chilli (Seeds)											
Tomato (Seeds)											
Brinjal (Seeds)											
Gourds (snake,											
bottle, bitter,											
Total Vegetables											
	Castor Niger Rapeseed & Mustard Linseed Soybean Total Oil Seds Pigeon pea (Red Gram) Chick pea (Bengal gram) Green gram Black gram Cowpea Horse gram Lentil Rajma Field pea Total Pulses Bhendi (Okra/Ladies finger) French bean Radish Onion Chilli (Seeds) Tomato (Seeds) Brinjal (Seeds) Gourds (snake, bottle, bitter, ribbed etc) Pumpkin Vegetable Pea	Sesame Castor Niger Rapeseed & Mustard Linseed Soybean CO Total Oil Seds Pigeon pea (Red Gram) Chick pea (Bengal gram) Chick pea (Bengal gram) Co Green gram Rales gram Co Co Green gram Co Green gram Co Co Green gram Co Co Green gram Co Co Green gram Co Co Green gram Co Co Co Co Co Co Co Co Co Co Co Co Co	Sesame Castor Niger Rapeseed & Mustard Linseed Soybean C O Total Oil Seds Pigeon pea (Red Gram) Chick pea (Bengal gram) Chick pea (Bengal gram) C O Green gram C O Green gram C O Green gram C O Green gram S D B N Black gram Cowpea Horse gram Lentil Rajma Field pea Total Pulses Bhendi (Okra/Ladies finger) French bean Radish Onion Chilli (Seeds) Tomato (Seeds) Brinjal (Seeds) Gourds (snake, bottle, bitter, ribbed etc) Pumpkin Vegetable Pea	Sesame Castor Niger Rapeseed & Mustard Linseed Soybean C O	Castor Niger Rapeseed & Mustard Mustard Linseed COO 312 Soybean 312 Total Oil Seds 6 4.8 00 4.8 Pigeon pea (Red Gram) COO 200 Chick pea (Bengal gram) COO 200 Green gram 8 2.5 00 0 B N 232 Black gram 6 2.8 40 0 Cowpea COO 200 Horse gram COO 200 Lentil COO 200 Rajma COO 200 Field pea COO 200 Total Pulses Total Pulses Total Pulses 5.3 40 0 Bhendii (Okra/Ladies finger) COO 200 French bean Radish Onion COO 200 Cowlist (Seeds) COO 200 Cowlist (Seeds) COO 200 Cowlist (Seeds) COO 200 Cowpea COO 200 Cowpea COO 200 Cowlist (Seeds) COO 200 Cowlist (Seeds) COO 200 Cowlist (Seeds) COO 200 Cowlist (Sesame Castor Niger Rapeseed & Mustard Linseed Soybean C O O 312 Total Oil Seds Figeon pea (Red Gram) C O O O O O O O O O O O O O O O O O O O	Sesame <td> Castor C</td> <td> Castor</td> <td> Castor</td> <td> Sesame</td>	Castor C	Castor	Castor	Sesame

											82
Total Fruits											
Total Fruits											
T . 177											
Total Flowers											
Turmeric rhizome											
Coriander											
Garlic											
Fenugreek											
Total Spices											
Fodder Sorghum											
Fodder Cowpea											
Desmanthus/Hedg											
e lucerne											
Lucerne											
Stylo											
Alfalfa											
Berseem											
Total Fodder											
Potato											
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materials											
Dhaincha											
	Coriander Garlic Fenugreek Total Spices Fodder Sorghum Fodder Cowpea Desmanthus/Hedg e lucerne Lucerne Stylo Alfalfa Berseem Total Fodder Potato Small onion bulb Sugarcane setts (if sold by weight) Total special planting	Total Flowers Turmeric rhizome Coriander Garlic Fenugreek Total Spices Fodder Sorghum Fodder Cowpea Desmanthus/Hedg e lucerne Lucerne Stylo Alfalfa Berseem Total Fodder Potato Small onion bulb Sugarcane setts (if sold by weight) Total special planting	Total Flowers Turmeric rhizome Coriander Garlic Fenugreek Total Spices Fodder Sorghum Fodder Cowpea Desmanthus/Hedg e lucerne Lucerne Stylo Alfalfa Berseem Total Fodder Potato Small onion bulb Sugarcane setts (if sold by weight) Total special planting	Total Flowers Turmeric rhizome Coriander Garlic Fenugreek Total Spices Fodder Sorghum Fodder Cowpea Desmanthus/Hedg e lucerne Lucerne Stylo Alfalfa Berseem Total Fodder Potato Small onion bulb Sugarcane setts (if sold by weight) Total special	Total Flowers Turmeric rhizome Coriander Garlic Fenugreek Total Spices Fodder Sorghum Fodder Cowpea Desmanthus/Hedg e lucerne Lucerne Stylo Alfalfa Berseem Total Fodder Potato Small onion bulb Sugarcane setts (if sold by weight) Total special planting	Total Flowers Turmeric rhizome Coriander Garlic Fenugreek Total Spices Fodder Sorghum Fodder Cowpea Desmanthus/Hedg e lucerne Lucerne Stylo Alfalfa Berseem Total Fodder Total Fodder Potato Small onion bulb Sugarcane setts (if sold by weight) Total special planting	Total Flowers Turmeric rhizome Coriander Garlic Fenugreek Total Spices Fodder Sorghum Fodder Cowpea Desmanthus/Hedg e lucerne Lucerne Stylo Alfalfa Berseem Total Fodder Total Fodder Small onion bulb Sugarcane setts (if sold by weight) Total special planting	Total Flowers Turmeric rhizome Coriander Garlic Fenugreek Total Spices Fodder Sorghum Fodder Cowpea Desmanthus/Hedg e lucerne Lucerne Stylo Alfalfa Berseem Total Fodder Potato Small onion bulb Sugarcane setts (if sold by weight) Total special planting	Total Flowers Turmeric rhizome Coriander Garlic Fenugreek Total Spices Fodder Sorghum Fodder Cowpea Desmanthus/Hedg e lucerne Lucerne Stylo Alfalfa Berseem Total Fodder Potato Small onion bulb Sugarcane setts (if sold by weight) Total special planting	Total Flowers Turmeric rhizome Coriander Garlic Fenugreek Total Spices Total Spices Fodder Sorghum Fodder Cowpea Desmanthus/Hedg e lucerne Lucerne Stylo Alfalfa Berseem Total Fodder Small onion bulb Sugarcane setts (if sold by weight) Total special planting	Total Flowers Turmeric rhizome Coriander Garlic Fenugreek Total Spices Total Spices Total Spices Total Spices Total Fodder Cowpea Desmanthus/Hedg e lucerne Lucerne Stylo Alfalfa Berseem Total Fodder Total Fodder Stylo Alfalfa Berseem Total Fodder Fodder Sorghum Fodder Stylo Alfalfa Berseem Total Fodder Total Spices Total Fodder Total Fodder Total Fodder

	Other Green						
	manure seeds						
	Total Green						
	Menure seeds						
COM							
MER							
CIAL	Cotton						
CROP	Other Commercial						
\mathbf{S}	Crop seeds						
	Other Commercial						
seeds	Crop seeds						
	Total						
	Commercial						
	Crops						
	Grand Total of						
	Seeds						

Production of planting materials by the KVKs (seedlings, cuttings. Slips in numbers)

			Plant mate produ	rial	Plan	ting ma	terial s	supplied	to farm	ers	Plant mate suppli	rial ed to
Enter prise	Name of crop	Va rie	Qua	Val	Fre	ee suppl			Priced	·	oth agen	cies
		ty	ntity (Nos)	ue (Rs)	Qua ntity (Nos)	No of farm ers	Val ue (Rs	Qua ntity (Nos)	No of farm ers	Val ue (Rs	Qua ntity (Nos)	Val ue (Rs
VEG ATA BLES	Brinjal seedlings											
	Chilli seedlings	K 2	5000	500	0	0	0	5000	2	500	0	0
	Tomato seedlings	C O T H 3	1000	500	0	0	0	1000	2	500	0	0
	Cabbage seedlings Cauliflower seedlings										-	
	Broccoli seedlings Capsicum seedlings											
	Onion seedlings Onion bulb (aggregatum) Cucumber											
	seedlings Bottle gourd seedlings Bitter gourd											
	seedlings											

Sponge goard Spon									1	1		1	-	84
Pumpkin seedlings		Sponge gourd												
Knolkhole Seedlings Summer Squash Seedlings Summer Squash Seedlings Summer Squash Seedlings Seedlings Summer Squash Seedlings		seedlings										L	_	
Knolkhole Seedlings Summer Squash Seedlings Summer Squash Seedlings Summer Squash Seedlings Seedlings Summer Squash Seedlings		Pumpkin seedlings												
Summer Squash seedlings														
Summer Squash seedlings		seedlings												
Seedlings														
Marrow seedlings														
Coccinia														
Coccinia		J	Lo		100						100			
Total Vegetable planting materials		Coccinia		1000		0	0	0	1000	4		0		0
Path Path														
FRUI TS Aonla						0	0	0		8			0	0
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cuttin gs Papaya seedlings		Mango												
gs Papaya seedlings Guava Image: Control of the process of the part o														
Guava Guav		Panava seedlings												
Jack fruit	8-													
Beal														
Citrus														
Lemon Mausammi M														
Mausammi		Citrus												
Karonda Pomegranate Custard apple Apple Ber Jamun Pear Peach Kiwi Apricot Walnut Banana succers Banana seedlings Total Fruit planting materials S AND Marigold ORN AME NTA Tube Rose L (Rajnigandha)		Lemon												
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Peach Peach Kiwi Apricot Walnut Banana succers Banana seedlings Total Fruit planting materials FLO WER S AND Marigold ORN AME NTA Tube Rose L (Rajnigandha)		Ber												
Peach Kiwi		Jamun												
Kiwi Apricot Walnut Banana succers Banana seedlings Total Fruit planting materials FLO WER S AND Marigold ORN AME NTA Tube Rose L (Rajnigandha)		Pear												
Kiwi Apricot Walnut Banana succers Banana seedlings Total Fruit planting materials FLO WER S AND Marigold ORN AME NTA Tube Rose L (Rajnigandha)		Peach												
Apricot Walnut Banana succers Banana seedlings Total Fruit planting materials FLO WER S AND Marigold ORN AME NTA Tube Rose L (Rajnigandha)														
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AME NTA Tube Rose L (Rajnigandha)		Marigold												
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PLAN Chrysanthmum														
	PLAN	Chrysanthmum												

seedli ngs and Rose cuttin gs Hibiscus (Gudhal) Crotan plant Calandula (Pot marigold) Vervina Pendula Baugainvillia Durenta Golden Gladiolus Harshingar Glardia Ficusbenajamina Red erration Poppy Sweet William Chirayata Ashok Total Flowers and Ornamental planting materials MEDI CINA L Lemon Grass L AND Aswagandha ARO MATI C Satawar PLAN TS Mahogani Seedli ngs and Turmerie cuttin gs Total medicinal and aromatic FOR	TC	1				1		85
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53	Karanj						
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	•						
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	Casuarina						
	Coconut seedlings						
	Arecanut seedlings Total forest and						
	plantation crops						
FOD	plantation crops						
DER	Napier grass						
slips	Para grass						
	Super Napier grass						
	Sudax Chery						
	Cumbu Napier						
	grass (Co 3, Co 4,						
	Co 5 etc)						
	Other fodder plants						
	(Specify) Total Fodder						
	crops						
SPIC	сторо						
ES	Turmeric						
	Coriander						
	Garlic						
	Fenugreek						
	Other Fibre Crops						
	(Specify - seed						
	only)						
	Total Spices						
	Fodder Sorghum						
	Fodder Cowpea						
	Desmanthus/Hedg						
	e lucerne						
	Lucerne						
	Stylo						
	Alfalfa						
	Berseem						
	Other Fodder Seeds						
	Total Fodder						
CDE	-			-			\vdash
GRE	Dhaincha						

****		<u> </u>	Ι	I	1	ı	1	1	ı	I	87
EN											
MAN											
URE	Sesbania										
	Sunnhemp										
	Other Green										
	manure seeds										
	Total Green										
	Menure seeds										
Specia											
1											
Planti											
ng	Mushroom spawn										
Materi	Sugarcane setts (If										
als	sold by Numbers)										
sold											
by	Other seed										
numbe	materials (sold by										
rs	numbers)										
	Total special										
	planting materials										
Any	Paddy seedlings										
other	Any other										
planti	(specify)										
ng	(1)/										
mater											
ial											
sold											
by											
numb											
ers											
	Total Commercial										
	Crops										
	Grand Total of	1600	200				1600		200		
	Seeds	0	00	0	0	0	0	8	00	0	0

Production of Bio-Products

			Bio	0-							bio)-
		Co	prod	ucts							produ	
		mm	produ	uced	Bi	io-produ	ıcts suj	plied to	farmer	S	suppli	ed to
Categ	Name of the product	erci al	Ove	Val	Free	distribu	tion		Priced		oth agen	
ory	product	nam	Qua ntity	ue		No	Val		No	Val		Val
		e (if	(kg)	(Rs	Qua	of	ue	Qua	of	ue	Qua	ue
		any)	(Kg))	ntity	farm	(Rs	ntity	farm	(Rs	ntity	(Rs
					(kgs)	ers)	(kgs)	ers)	(kgs))
Bio-												
fertili												
zers	Rhyzobium											
	Azotobacter											
	Acetobacter											
	Azospirillum											

Г	1	1		ı	ı	ı	ı		T	1	88
	BGA										
	Azolla										
	VAM										
	Phosphate										
	solubilizers										
	Potassium										
	Solubilizers										
	Sulphur										
	Solubilizers										
	Waste										
	decomposer										
	Bio composting										
	culture										
	Other Effective										
	Micro										
	Organisms										
	(Specify)										
	Total bio-										
	fertilizers										
Bio-											
input			180						180		
S	Panchagavya	60	00	0	0	0	60	53	00	0	0
	Vermicompost	1500 0	750 00	5000	2	250 00	1000 0	8	500 00	0	0
	Earthworms for										
	vermicompost										
	Compost										
	Other bio-inputs										
	(specify)										
	Total bio-	1506	930			250	1006		680		
	inputs	0	00	5000	2	00	0	61	00	0	0
Bio-	Beauveriabassia										
Pestic	na										
ides											
for	Trichoderma										
insect	viridi										
pests											
Fung	Metarrhiziuman										
al disea	isoplae										
ses Nema	Psuedomonas										
	1 sueuomonus										
todes	EPN										
	Trichogramma										
	(Unit)										
	Insect										
	Parasitoids										
	(Specify)										
	Insect										
	Parasitoids										
	(Specify)			1	1	i	i	l	i	1	Ī

						0,
Insect						
Parasitoids						
(Specify)						
Insect						
Parasitoids						
(Specify)						
Insect						
Parasitoids						
(Specify)						
Neem Soap						
Pongamia Soap						
Botanicals						
(Specify)						
Total bio-						
pesticides						
Total bio-						
products						

Production of livestock materials

		Variet	Produ	ction	Supplied to farmers						Suppli	
		y/impr oved	Qua ntity (No)	Val ue (Rs	Free distribution Priced						oth agen	
Categ ory	Name of the livestock/fish /feed	species name/ Comm ercial name (if any)			Qua ntity (No)	No of farm ers	Val ue (Rs	Qua ntity (No)	No of farm ers	Val ue (Rs	Qua ntity (No)	Val ue (Rs
Dairy												
cattle	Cow											
	Cow											
	Cow Calf											
	Cow Calf											
	Bufallo											
	Bufallo											
	Bufallo calf											
	Bufallo calf											
	Other diary cattle (Specify)											
	Total Dairy											
	Cattle											
Goat												
and												
Sheep	Goat			-			-					
	Goat											
	Goat											
	Sheep											
	Sheep											
	Sheep											

	1		1	1		1	ı	ı	1	90
	Lamb									
	Lamb									
	Other									
	goat/sheep									
	(Specify)									
	Total goat									
	and sheep									
Poult										
ry	Desi bird									
	Desi bird									
	Desi bird									
	chicks									
	Desi bird									
	chicks									
	Broiler									
	Layer									
	Dual purpose									
	birds									
	Japanese									
	Quail									
	Turkey									
	Emu									
	Ducks									
	Desi bird egg									
	Broiler hybrid									
	egg									
	Layer egg									
	(breeding)									
	Egg (Commoraiol)									
	(Commercial)									
	Quail egg (breeding)									
	Quail egg									
	(commercial)									
	Others under									
	poultry									
	(specify)									
	Total poultry									
PIGG	Pigs adults									
ERY										
	Piglets	İ			İ					
	Pork									
	Others									
	related to									
	piggery)									
	Total									
	Piggery									
	Fingerlings of									
FISH	Fish type									
ERY	(specify)									
	Fish meat									

(kg)						
Total						
Fishery						
Grand Total						
Livestock						
and fishery						

8. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples/ SHC	No. of Samples		No. of Farmers	No. of Villages	Amount realized (Rs.)
	Using Mini Soil Testing Lab	Through Traditional Lab			
Soil samples		669	669	81	37500
Soil Health Cards (SHC)		669	669	81	37500

Samples	No.of Samples	No.of Farmers	No.of Villages	Amount realized (Rs.)
Water	230	230	46	2300
Plant				
Manure				
Others (pl.specify)				
Total	230	230	46	2300

9. SCIENTIFIC ADVISORY COMMITTEE

Date of SAC meeting	Number of members attended
7.11.2019	38

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

10. PUBLICATIONS

Publications in journals

Publica	itions in journals			
S.	Authors	Year	Title	Journal
No				
1		2019	Assessment of suitable	
			Redgram (Cajanus cajan)	
			variety for yield and yield	
	Maheshwaran, P., M.		characteristics in rainfed	Journal of Pharmacognosy and
	Arun Raj and K. Ragu		region of Theni district	Phytochemistry
2		2020	Assessment of suitable	
			Sugarcane variety for black	
			cotton soils of Varaganadhi	
	Maheshwaran, P., M.		river basin area in Theni	Journal of Pharmacognosy and
	Arun Raj, K. Ragu		district	Phytochemistry
3	Maheshwaran, P.,M	2019	Assessment of suitable castor	
	Arun Raj, K Ragu		hybrid for higher yield and	
			yield characteristics in rainfed	Journal of Pharmacognosy and
			region of theni district	Phytochemistry

				72
4	Arun Raj, M., P	2019	Assessment of suitable salt	
	Maheshwaran, M		resistant rice variety for saline	
	Vetrivel and S Vignesh		soils of theni district	
5	Maheshwaran, P and	2019	Nilayana varumanathirkum	Krishi Jagran
	M. Arun Raj		velan kadugal varappu	
6	Maheshwaran, P and	2019	Varumanam tharum velan	Pachai bhoomi
	M. Arun Raj		kaadugal	
7	Arun Raj, M and P	2019	Mundhiriyil orpathithiranai	Agridoctor
	Maheshwaran		athikarikka nerukku nadavu	
			murai	
8	Arun Raj, M and P	2019		Agridoctor
	Maheshwaran		Thennaiku ootasathu tonic	
9	Arun Raj, M and P	2019	Thakkaliyil nunuttasathu	Agridoctor
	Maheshwaran		patrakurai arikurikalum athai	
			sari seiyyum valimuraikalum	
10	Arun Raj, M and P	2019	Karumbu thogaiyai	Agridoctor
	Maheshwaran		payanpaduthi makkiya oram	
			thayarithal	
11	Arun Raj, M and P	2019	Nerpayiril orungkinandha ura	
	Maheshwaran		melanmai	

Other publications

S.No	Item	Year	Authors	Title	Publisher
1	Books				
		2019	Dr.P.Patchaimal, K.Ragu, P.Maheswaran, and M.Ramya Siva selvi	Innovative farmers	KVK, Theni
		2019	Dr.P.Patchaimal, Dr.S.Thirumuruga n K.Ragu, P.Maheswaran, M.Arunraj, V.Sumitha and M.Ramya Siva selvi	Sugarcane production technologies	KVK, Theni
		2019	Dr.P.Patchaimal, K.Ragu, P.Maheswaran,	Grapes Production technologies	KVK, Theni
2	Book chapters / manuals				
3	Training manuals	2019	Dr.P.Patchaimal, Dr.S.Thirumuruga n K.Ragu, P.Maheswaran, M.Arunraj, V.Sumitha and M.Ramya Siva selvi	Production technologies of various crop and processing and value addition	KVK, Theni

4	Conference, proceeding papers, popular articles, Bulletins, Short communications	2019	Dr.S.Thirumuruga n and K Ragu and P.Maheswaran	Double pruning and single harvest in Seedless grapes	KVK, Theni
	Communications	2019	Dr.S.Thirumuruga n, and P.Maheswarna	Assessment of Suitable Sugarcane varieties for Theni District	KRISAT Tamil Conference, Madurai
5	Technical bulletin/ Folders				
	Tolders	2019	Dr.P.Patchaimal, Dr.S.Thirumuruga n K.Ragu, P.Maheswaran, M.Arunraj, V.Sumitha and M.Ramya Siva selvi	Water harvesting methods	KVK, Theni
		2019	Dr.P.Patchaimal, Dr.S.Thirumuruga n K.Ragu, P.Maheswaran, M.Arunraj, V.Sumitha and M.Ramya Siva selvi	Cumbu production technologies	KVK, Theni
		2019	Dr.P.Patchaimal, Dr.S.Thirumuruga n K.Ragu, P.Maheswaran, M.Arunraj, V.Sumitha and M.Ramya Siva selvi	Fall army worm management in Maize	KVK
		2019	Dr.P.Patchaimal, Dr.S.Thirumuruga n K.Ragu, P.Maheswaran, M.Arunraj, V.Sumitha and M.Ramya Siva selvi	Soil samplae collection	KVK
		2019	Dr.P.Patchaimal, Dr.S.Thirumuruga n K.Ragu, P.Maheswaran, M.Arunraj, V.Sumitha and M.Ramya Siva selvi	Value Added products from Millets	KVK
		2019	Dr.P.Patchaimal,	Grapes production	KVK

			n K.Ragu,		
			P.Maheswaran,		
			M.Arunraj,		
			V.Sumitha and		
			M.Ramya Siva		
			selvi		
		2019	Dr.P.Patchaimal,	Sugarcane production	KVK
			Dr.S.Thirumuruga	technologies	
			n K.Ragu,		
			P.Maheswaran,		
			M.Arunraj,		
			V.Sumitha and		
			M.Ramya Siva		
			selvi		
6	Reports				
7	others				

Newsletter/Magazine

Name of News	Frequency	No. of Copies printed for distribution
letter/Magazine		
Velan ariviyal malar	Quarterly	800

2. Training/workshops/seminars etc details attended by KVK staff
Trainings attended in the relevant field of specialization (Mention Title, duration, Institution, location etc.)

Staff Name	Training Title	Duration	Institute Address	Major areas of knowledge gained	Programmes planned based on knowledge gained
	Management of Fall Army Worm (FAW) in Maize	1 Day (08.08.2019) 1 Day (09.08.2019)	TNAU, Coimbatore	Fall Army Worm Management Nematode	Conducting FLD and Scientific Visits.
Dr.S.Thirumurugan, Senior Scientist and Head	Management of Nematodes in Horticultural crops (06.06.2019) Sustainable Agro forestry		TNAU, Coimbatore FC & RI, Mettupalayam	management Agroforestry	Conducting FLD Training for Agro Forestry conducted
M.Ramya Siva Selvi SMS (Home Science)	7 th Expert committee Meeting for Curriculum Development	2 Days (13.12.2019 to 14.12.2019)	NIEPMD, Chennai,	Curriculum Development (CD)	-
	Women Empowerment and Child Marriage	1 day 28.11.2019	UNICEF & CRY	Ending Child Marriage	-
P.Maheswaran, SMS (Agronomy)	6 Post Harvest Processing & Crop production in Millets	5 days (06.01.2019 to 11.012019)	NIPHM	Crop production post harvest processing	Conducting FLD on Cumbu and Samai
Mr. M. Arun Raj	Pesticide Application Techniques and Safety measures	5 days (01.04.2019 to 05.04.2019)	National Institute of Plant Health Management (NIPHM), Rajendra Nagar, Hyderabad – 500 030.	Major Pesticide Application Techniques	Created awareness about pesticide application techniques and safety measures through various training programme

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.)				
87	13		12500	127				

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	Area	Number of
--	------	-----------

introduced	(ha)	farmers
Total		

Awareness campaign

	Meet	ings	Gost	hies	Field	l days	Farn	ners fair	Exhib	oition	Film show	
	No.	No.of	No.	No.of	No.	No.of	No.	No.of	No.	No.of	No.	No.of
		farmers		farmers		farmers		farmers		farmers		farmers
Total												

14. Awards/rewards by KVK and staff

Recognitions & Awards/Special attainments and Achievements of Practical Importance									
Recognitions & A	Recognitions & Awards (Team Award/individual								
Item of	Year		Awarding Organization National / International	Individual/ collaborative					
Recognition			/ Professional; Society						
Special Attainmen	ts & Ac	chievem	ents of Practical Importance(patents, technologies,	varieties, products,					
concepts, methodo	logies e	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)

Please attach detailed report of each project/programme separately

15. Success stories

1. Profitable Rice production in Theni district

Water scarcity was a major problem, its availability being dictated by the monsoon in Karunkkamuthampatti cluster village Theni district. Lack of adoption of good agricultural practices reduces the productivity of Paddy. There was an urgent need to cultivate short duration Paddy variety for water scarcity season and implement the good agricultural practices for rice cultivation while enhancing productivity. CO 51 Paddy variety was shorter duration with 110 days duration with white medium slender grains. High milling capacity (69%) and Head rice recovery (63%) with intermediate amylase content (22%). CO 51 paddy has Average yield of 6623 kg/ha it is 11 % increase over ADT 43 with yield potential of 11377 in Tamil Nadu. This variety suitable for cultivation as Transplanted rice throughout Tamil Nadu except Nilgris District.

Plan, Implement and Support

KVK planned to implement FLD on CO 51 Paddy cultivation. As a part of FLD the following practices and methods are implemented

Integrated Crop Management Practices for higher Productivity Split application of Urea

Application of excessive Nitrogenous fertilizers Particularly Urea leads to Plants are dark green in colour, Abundant foliage, Restricted root system, Flowering and seed setting may be retarded and attract the sucking pests. Application of Urea and other Nitrogenous fertilizers at three split doses. Application of 50 % of N at the time of Transplanting.Remaining first 25 % at time of active tillering stage and second 25 % at the time of Panicle emergence stage. This method helps increased the Nitrogen use efficiency and reduces the cost of fertilizers.

In other hands, Productivity of Paddy is reduced when leaf Nitrogen content < 2% at the time of tillering stage. Foliar application of Urea at 1 % at active tillering stage increase the No. of tillers per hills resulted from high tillering ability.

Pheromone traps for controlling Yellow Stem Borer.

Rice yellow stem borer is the major problem identified in paddy growers in Tamil Nadu. Appearance of Symptoms mostly at panicle emergence stage. In this stage unable to implement the control measures with 16 % yield losses. Pheromone traps installation at the rate of 5 No.s / Acre for monitoring the Yellow stem borer incidence in paddy from transplanting onwards. This method helps to farmers for manage the Yellow Stem borer from early Stages onwards.

Integrated Disease Management: In Tamil Nadu paddy growing areas yield loss due to incidence of Blast and Sheath Blight are the main diseases during Kharif and Rabi Season. Rice crops grown under irrigated conditions were inoculated with *Pyricularia oryzae* during early growth stages to study the effect of leaf blast on yield formation. The inoculations led to severe epidemics of leaf blast around maximum tillering, characterized by the presence of typical blast lesions and an accelerated senescence of heavily infested leaf tissue. Leaf blast led to a prolonged tillering and a delay in flowering and maturity. Crop growth rate and leaf area formation declined sharply during establishment of the disease and continued to be reduced till maturity. This resulted in a marked reduction of total dry matter production and grain yield. (Source: L. Bastiaans)IDM Practices which comprising seed treatment with Trichiderma at 10g/kg of seeds and Foliar application of Pseudomonas 5g/ litre of water at 15 Days After Transplanting and 15 days after first spray. It is control the Blast and Sheath blight in Paddy and reduces the indiscriminate application of fungicide.

PPFM (Methylobacteria) for Drought Mitigation

Theni district farmers are mainly depends on Mullai periyar River. After transplanting of paddy sometimes water deficit during 7-15 days. When water deficit occurs tillering stage leads to poor yield due low tillering capacity. For overcome this water demand ICAR KVK, Theni foliar application of PPFM at the ratio of 1000 mL/acre to reduce the evapotranspiration rate. It is not permanent measure against drought. It works 7-15 days water deficit only. It is also works as a plant growth regulator to increase the growth of Paddy.

Group approach for horizontal spread of the variety

The CO 51 variety was first introduced at Veerapandi village of Theni district. After successful yield gain from co 51, district scientific advisory committee recommended the CO 51 variety for kharif and Rabi season. In collaboration with ATMA, KVK conducted the farm school in paddy with Co 51. Seed material also produce at seed farm in Theni district. Totally 800 ha among 1200 farmers were growing CO 51 with integrated crop management practices

Results and outcome

Yield obtained from CO-51 Paddy field is 78q/ha over he got net return of 87710 with 2.96 BC ratio. This is more profit than farmers practice. The paddy variety CO 51 with Integrated Crop Management Practices helps higher production when water deficit during maturity stage. Practice of Split application of urea reduces the nitrogen losses and increases the Nitrogen use efficiency lead to high tillering capacity. Growing Azolla in paddy field fix the atmospheric Nitrogen. Pest management strategies with Pheromone traps reduces the pesticides cost. Foliar application of PPFM reduces the rate of evapotranspiration and increase the Shoot growth. This will be a step forward in doubling the Paddy growers' income as target for our country.

Success story: 2

Nutri Garden for Enhancing Nutrition Security in Anganwadi Center-A success story

KVK, Theni conducted FLD training on "Nutri Garden" to enhance food and nutritional security in Anganwadi centers with an aim of eradicating malnutrition among Children. Anganwadi workers were thought about the importance of nutri garden, biofortified varieties, health benefits of basic five food groups (Cereals, Pulses, Vegetables, Greens, Fruits, Milk and Milk Products and Fats and Oil), Recommended Dietary Allowances (RDA), POSHAN Abhiyan etc.,

The Anganwadi workers were encouraged to go for cultivation of diverse vegetables and fruits primarily for children consumption to improve the food and nutrition security. They were provided critical inputs under FLD Programme i.e.pack of assorted seeds having a combination of leguminous i.e cow pea, vegetables i.e brinjal, tomato, bhendi, chilli, tomato, leafy vegetables like drumstick, Agathi, palak, paruppukerai, manathakkali, Amaranths and other vegetables i.e Bitter gourd, Ridge gourd, Cowpea, Cluster bean, Pumpkin, Bottle gouard, Snake gourd, Tomato etc., fruit seedlings like Papaya, Banana, Guava, Mango etc., to the anganwadi centers.

Vishwanathapuram Anganwadi Center is a successful Nutri Garden Center among all centers which is located at Chinnamanur Block, Theni District. Anganwadi workers did not have prior knowledge on Nutri Garden eventhough the workers were shown keen interest in cultivation of organic vegetables and got good yield.

Field day was organized to create awareness among parents of anganwadi children about the importance and health benefits of Nutri Garden to enrich the dietary habits of family and society with better nutrients. Totally 56 kg of vegetable produce out of which 50 kg was used for Anganwadi center and 6kg was given to poor families and remaining 10 kg was sold in the local areas. Programme Officer, ICDS, CDPO, Supervisor and Anganwadi workers, Parents were visited the Anganwadi Center and appreciated their efforts for the cause of Children. ICDS PO instructed all the anganwadi workers to implement the Nutri Garden in 8 blocks of Theni

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

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	

16. IMPACT

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

Name of specific	No. of	% of adoption	Change in income (Rs.)	
technology/skill transferred	participants		Before	After
			(Rs./Unit)	(Rs./Unit)
Application of MN mixture to	500	38	225/tree	350/tree
Coconut				

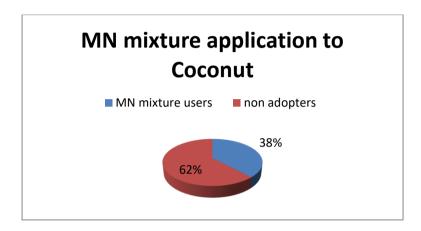
NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

16.B. Cases of large scale adoption

(Please furnish detailed information for each case)

Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
CO 51 Paddy variety	350	980
IIHR Banana Special	800	1250
Total	1150	2230

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	Received Guidance and Assistance for Conducting Training		
Institute, Periyakulam	Programmes. Guidance to students for their Rural Agricultural		
	Work Experience programme		
Agricultural College and Research Institute,	Guidance to students for their Rural Agricultural Work		
Madurai	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 Training extension workers on Climate Change Mitigation	
(JASuL)	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.)

-----XXXXXXXX