KRISHI VIGYAN KENDRA THRISSUR

ANNUAL REPORT-2019

(FOR THE PERIOD FROM 01 January 2019 TO 31 December 2019)

PART I – GENERAL INFORMATION ABOUT THE KVK

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

KVK Address	Telepho	one	E mail	Web Address
KVK Thrissur, KAU P.O. 680 656, Vellanikkara.	Office	Fax	kvkthrissur@kau.in	http://kvkthrissur.kau.in
	0487-2375855	-		

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

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Address	Telephone		E mail	Web Address
	Office	Fax		
Kerala Agricultural University, Vellanikkara, KAU P.O.,	0487-2371619	0487-2370019	registrar@kau.in	www.kau.in
Thrissur – 680656				

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

Name	Telephone / Contact			
	Residence Mobile Email			
Dr. Suman K. T.	KAU Quarter No. A8, KVASU Campus, Mannuthy – 680651	9496768999	suman.kt@kau.in	

1.4. Year of sanction: 2004

1.5. Staff position as on 31 December 2019

Sl. No	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Head/Senior Scientist	Dr.Suman K.T.	Assistant Professor	F	Home Science	Ph. D	15600-39100 AGP 8000	38310	02.07.2015	Permanent	OBC
2	Scientist/SMS	Dr. Suma Nair	Assistant Professor	F	Ag. Engineering	Ph. D	15600-39100 AGP 7000	30310	22.08.2017	Permanent	Others
3	Scientist/SMS	Dr.Ani S Das	Associate Professor	M	Animal Husbandry	M. V .Sc	37400-67000 AGP 9000	66060	01.10.2019	Permanent	OBC
4	Scientist/SMS	Mrs.Shameena S.	Assistant Professor	F	Horticulture	M. Sc	15600-39100 AGP 6000	21600	08.03.2019	Permanent	Others
5	Scientist/SMS	Dr.Deepa James	Assistant Professor	F	Plant Protection	Ph. D	15600-39100 AGP 6000	21600	08.03.2019	Permanent	Others
6	Scientist/SMS	Mrs.Arathy Balakrishnan	Assistant Professor	F	Ag. Extension	M. Sc	15600-39100 AGP 6000	21600	15.03.2019	Permanent	SC
7	Scientist/SMS	Mr.Akhil T. Thomas	Assistant Professor	M	Agronomy	M. Sc	15600-39100 AGP 6000	35000/ month	22.03.2018	Temporary	Others

8	Programme Assistant	Liju Saleevan	FarmOfficer	M	Agriculture	B. Sc (Hons)	-	Daily wages	03.08.2018	Temporary	OBC
9	Programme Assistant (Computer)	Bijitha S.	Computer Programmer	F	BCA	B.C.A	-	Daily wages	10.01.2018	Temporary	OBC
10	Programme Assistant/ Farm Manager	Mohanchandran T. C.	Farm Manager	M	Agriculture	B. Sc Agriculture	22800-43200	42500	01.07.2015	Permanent	OBC
11	Assistant	Dhanesh C. K.	Assistant	M	B. Tech	B. Tech	27800-59400	28500	01.11.2017	Permanent	OBC
12	Jr. Stenographer	Subitha S.	Computer Assistant. Gr.II	F	B. Com.	B. Com.	20000-45800	20550	14.07.2017	Permanent	OBC
13	Driver – 1	Rashy. K.S.	LDV Driver Gr. II	M	-	=	20000-36300	27800	04.04.2011	Permanent	Others
14	Driver – 2	Sajeevkumar M. G.	Tractor Driver Gr. II	M	-	=	8000-13500	22200	02.02.2016	Permanent	OBC
15	SS-1	Anitha M. N.	Office Attendant	F	B. Com.	B. Com.	16500-35700	17500	15.01.2020	Permanent	OBC
16	SS-2	Deepu A. K.	Office Attendant	M	Plus two	Plus two	16500-35700	17500	27.01.2020	Permanent	ST

1.6. Total land with KVK (in ha): 20 ha

Sl. No.	Item	Area (ha)
1	Under Buildings	0.6
2.	Under Demonstration Units	0.5
3.	Under Crops	12.0
4.	Orchard/Agro-forestry	3.0
5.	Others	3.9
	TOTAL	20.0

1.7.Infrastructural Development: A) Buildings

		Source of	Stage						
Sl.	Name of building	funding		Complete			Incomplete		
No.			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.Lakh)	Starting Date	Plinth area (Sq.m)	Status of construction	
1.	Administrative Building	ICAR	03.08.2006	546	42.36				
2.	Farmers Hostel	ICAR	31.03.2009	300	27.25				
3.	Staff Quarters (6 Nos)	ICAR	31.03.2009	395	-				
4.	Demonstration Units	ICAR	30.07.2008	160	5.50				
	1 Integrated Vertical Farming Unit	NABARD	31.03.2016	32	4.55				
	2 Mushoom Spawn Production Unit	SHM	31.03.2011	20	3.00				
5	Compound wall	ICAR RF	-	-	-				

6	Rain Water harvesting system	KAU Plan	31.03.2017	-	0.50		
7	Store Room	-	=	-	-		
8	Threshing cum drying yard	ICAR	31.03.2012	-	3.0		
9	Vehicle cum implement shed	ICAR	31.03.2012	-	3.0		
10	Seed processing unit	-	=	-	-		
11	Solar Roof Top – Off grid	ICAR /ANERT	31.03.2017	-	4.13		
12	Plot Fencing	KAU Plan, RF	31.03.2017	550 M	5.60		
13	Oyster mushroom shed	ATMA SHM	31.3.2019	200 m^2	1.52		
14	Button mushroom shed	SHM	31.12.2019	$260m^{2}$	5.80		

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero SLE	2017	8.0	41719	Good
Hero Honda Splendor	2006	0.5	31634.5	Good
Honda Aviator	2009	0.5	32914.4	Good

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Lakhs)	Present status
Tractor& accessories/ Implements	2005	5.00	Satisfactory
Generator	2009	3.00	Good
BinocularResearch Microscope	2011	0.25	Good
ElectronicWeighing Balance	2011	0.16	Good
Laminar flow cabinet	2011	0.42	Good
Hot air oven	2011	0.14	Good
Refractionmeter	2011	0.04	Good
Autoclave	2011	0.37	Good
Seedmoisturemeter	2011	0.21	Good
BOD Incubator	2011	0.51	Good
Refrigerator	2011	0.14	Good
Air Conditioner	2011	0.66	Good
Micowaveoven	2011	0.05	Good
Projector	2011	0.43	Good
Colonycounter	2011	0.04	Good
pH meter	2011	0.06	Good
Computer accessoires	2011	0.08	Good
Laser Guided Leveller	2012	5.00	Unsatisfactory
Projector	2014	0.148	Good
CPU	2014	0.03	Good
Handycam	2017	0.24	Good
Photostat machine	2017	0.35	Good

Laptops	2017	0.62	Good
CPU with keyboard and mouse	2017	0.24	Good
Desktops	2017	0.57	Good
UPS	2017	1.10	Good
Mini SoilTesting Kit	2017	0.86	Not Working
Cleaner cum grader	2018	0.72	Good
Specificgravityseparator	2018	0.88	Good
Multi Cropthresher-Tractoroperated	2018	1.68	Good
Wireloop type multi cropthresher	2018	0.45	Good
Weighing machines	2018	0.20	Good
Continoussealing machine	2018	0.25	Good
Hand sealer	2018	0.05	Good
Moisture analyser	2018	0.92	Good
Water purifier	2018	0.34	Good
Vegetable slicer	2018	0.30	Good
Digital camera	2018	0.36	Good
LCD projector	2018	0.53	Good
Net book	2018	0.23	Good
Photocopier	2018	0.30	Good
Microscope	2019	0.60	Good
CPU with keyboard and mouse	2019	0.22	Good
Printer cum scanner	2019	0.16	Good
OTG	2019	0.08	Good

1.8. Details of SAC meeting conducted during 2019

Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken	Remarks, if any
05.02.2019	16	8	 Strengthening of SAC of KVK by including various stakeholders including members from VFPCK, SHM, Agricultural Officers from identified Block Panchayaths, farmers and other important stakeholders Include field problems and recommendations of ATMA MTA meetings while formulating action plan for the year 2019-20. Organize regular farmer scientist interfaces to identify field problems and for formulating remedial measures in a time bound manner Popularise latest technologies in areas in agriculture and give emphasis for Urban Horticulture Demonstrations to be arranged in weedy rice infested areas to popularize the KAU Weed Wiper as a control for weedy rice Collaborate with <i>Kudumbasree</i> Mission and provide necessary technical support in their activities in the form of trainings and other 	The participation of different stakeholders will be ensured from next meeting onwards Included recommendations in the action plan of 2019-20 Conducted farmer scientist interfaces bimonthly in different blocks of district in collaboration with DoA Included FLD for urban agriculture Conducted FLD on management of weedy rice In Kole lands Conducted 7 trainings of 1 to 3 days duration for Kudumbasree members	Nil

follow -up activities, especially in areas such as value addition, mushroom cultivation and integrated farming Collaborate with the NBPGR, Vellanikkara for popularizing vegetable seeds available with them and <i>Kokum</i> in Thrissur district. Conduct programmes in collaboration with NABARD and Lead Bank, Thrissur in areas such as credit availability and banking facilities In the trainings on vegetable cultivation, information on the availability of vegetable seeds at NBPGR has been given Included sessions in the training programmes	
for the farmers	

PART II - DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprise
1	Agriculture + Horticulture + Livestock
2	Agriculture + Livestock
3	Agriculture + Horticulture
4	Agriculture + Livestock + Fisheries
5	Agriculture + Fisheries

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

Sl. No	Agro-climatic zone	Characteristics
1	Humid tropical zone	The area received a high annual rainfall of around 3421.8 mm during 2018, 71% of which is received during June-August (SW monsoon)
	1	and 13% during October-November (NE monsoon). Last year, this was 60% and 30% respectively for SW monsoon and NE monsoon.
		The area experience high temperature (29.2-36.7°c) and high RH (>80%) during major part of the year.
S. No	Agro ecological situation	Characteristics
A	(AES) I Central Midland with	Lies between 25'(7.62m) and 250'(76.2m) above MSL with banana, areca nut, rice, coconut, vegetables, livestock etc. as the major
	special reference to kole	farming enterprises.
	(AES) II Malayoram (Highland)	Lies between 25'(7.62m) and 250'(76.2m)above MSL with plantation crops, spices, livestock etc. as the major farming enterprises.
В	(AES) III Coastal sandy	Coconut, fish and livestock are the major farming enterprises among the coastal line.

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1.	Laterite	These soils occur in midlands at an elevation of 20 to 100 m above MSL	Eastern parts of Thrissur Taluk and Western part of ThalappillyTaluk
2.	Sandy Loam	These soils are of marine origin with high water table seen along coastal plains.	Parts of Malappuram,Thrissur and ChavakkadTaluk
3.	Clayey soil	These soils are poorly aerated and ill drained with medium fertility status and high	Back water area of Chavakkad and MukundapuramTaluk
		water holding capacity.	
4.	Alluvial soil	These soils occur 20m below MSL. These are frequently flooded and submerged.	Portion of ChavakkadTaluk

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

Sl. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1	Paddy (Virippu)	1865.31	4217.1	2261
2	Paddy (Mundakan)	13890.8	41509	2988
3	Paddy (Puncha)	8869.29	33160	3739
4	Coconut	81601.80	489 million nuts	5993
5	Nutmeg	6796.24	4170.6	614
6	Banana	5258.61	33229	6319
7	Plantain	2164.91	19803	9147
8	Pepper	1789.98	479.23	268
9	Areca nut	6270.89	6098.4	972
10	Tapioca	1289.67	54613	42336
11	Cashew	1660.89	462.44	278
12	Vegetables	2601.52		

Source: District Plan Document Thrissur 2018

2.5. Weather data

Month	Rainfall (mm)	Temp	oerature ⁰ C	Relative Humidity (%)
		Minimum	Maximum	
January 2019	0	20.4	32.9	55
February 2019	0	23.4	35.7	59
March 2019	0	24.8	36.7	65
April 2019	76.4	25.5	36.1	70
May2019	48.8	24.9	34.6	74
June 2019	324.4	23.5	32.2	83
July 2019	654.4	22.8	30.4	85
August 2019	977.4	21.9	29.5	89
September 2019	419.0	22.0	31.2	85
October 2019	418.4	21.4	32.4	79
November 2019	205.0	21.7	32.9	71
December 2019	4.4	22.1	32.3	63

* Source : Dept. of Agrl. Meteorology, KAU, 2020

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

Category	Population	Production	Productivity
Cattle			· ·
Crossbred	158401	24.18 lakh MT	6.91 l/day
Indigenous	16128	8.5 lakh MT	2.55 l/day
Buffalo	1,21,455	4,33,652 Lt./day	3.57 Lt./day
Sheep			
Crossbred			
Indigenous	161		
Goats	1,25,783	14,25,090 kg Meat /year	11.33kg/animal
Pigs			
Crossbred	8441		
Indigenous	7420		
Rabbits			
Poultry			
Layers-Egg Production	10,40,700 Nos.	21,03,00,000/year	202/year/bird
Duck-Egg Production	99,525 Nos.	1,42,45,000/year	143/year/bird
Meat	92,53,000 Nos.	1,38,82,790 kg/year	1.5 kg/bird
Hens			
Desi	909057	710 lakh eggs/yr	128 eggs/year
Improved	384615	586 lakh eggs/yr	225 eggs/yr
Ducks			
Turkey and others			
Fodder			
Fodder Grass	170 ha.	34000 tonnes /year	200 tonnes/Ha.
Straw	24151 ha.	23674 tonnes /year	0.98 tonnes/Ha.

Category	Area	Production	Productivity	
Fish				
Marine				
Inland				
Prawn	425 ha	1761 tons	4143.5 kg/ ha	
Scampi	23 ha	5.4 tons	235 kg/ha	
Shrimp	207 ha	621 tons	3000 kg/ ha	

^{*}Source: District Planning Document Thrissur 2017

2.7 District profile has been Updated for 2018-19 Yes / No: Yes

2.8 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas										
1	Thrissur	Puzhakkal	Arimboor Puzhakkal	1-7	Rice	1.Lack of mechanization 2. High seed rate 3. Bacterial Blight 4. Micronutrient deficiency 5. Weedy rice infestation	1.Farm Mechanization 2.Integrated pest and disease management 3.Integrated weed management 4. Integrated Nutrient management										
					Poultry	1. lean season after rice crop	1.Animal production management										
		Ollukkara	Ollukkara Nadathara Puthur Mannamangalam Thrissur urban	1-5		Coconut	1.Low productivity 2.Micronutrient deficiency 3. Rhinocerous beetle attack 4. Unscientific crop management	1.Integrated pest and disease management 2. Integrated nutrient management									
					Banana	1.Micronutrient deficiency 2. Lack of better management practices	Integrated Nutrient management Searm Mechanization										
					Vegetables	1. Lack of awareness about newly released varieties	1.Popularization of new varieties										
2	Theira				Diary	1.Summer heat stress in animals	1.Nutrition and feeding management										
2	Thrissur				1-5	1-3	1-3	1-3	13	1-5	1-3	1-3	1-3	1-3	Fodder	1.Lack of awareness on new types of fodder 2.Fodder shortage	1.Nutrition and feeding management
					Nutrition garden	1.Food and nutritional insecurity	1. Enhancing nutritional security of house holds										
					Others	1.Lack of availability of safe to eat leafy vegetables in urban areas.	1. Urban horticulture for production of safe to eat leafy spices/ vegetables, promotion of vertical kitchen garden.										
					Others	1. Water shortage	1.Precision farming										

				4-6			
				-	Vegetables	1.Lack of awareness on improved varieties in chilly 2. Pest and disease infestation	1.Popularization of new high yielding varieties 2.Integrated pest and disease management
					Banana	1.Severe disease incidence	1. Integrated pest and disease management
			Amballor Chalakkudy		Nutmeg	1.Leaf fall and fruit rot	1.Integrated pest and disease management
	Chalakkudy	Kodakara	Varakkara Pariyaram Kodaserry		Turmeric	1.Lack awareness on improved varieties	1.Popularization of new high yielding varieties
					Ragi	1.Lack awareness on improved varieties	Popularization of new high yielding varieties
					Dairy	1.Lack of scientific nutrition management 2.Wastage of fodder	1.Nutrition and feeding management
					Others	1.Lack of awareness on scientific feed management	1.Nutrition and feeding management
					EDP	Lack of value addition	1.Income generation through enterprises
			Pazhayannur,		Vegetables	1.Pest and disease infestation	1.Integrated pest and disease management
4.	Thalappilly	Pazhayannur	Wadakkancherry	4-6	Banana	1.Micronutrient deficiency 2. Pest and disease infestation	Integrated Nutrient management Integrated pest and disease management
					Ragi	1.Lack awareness on improved varieties	1 Popularization of new high yielding varieties
					Poultry	1.Unhygienic water supply in broiler farms	1.Scientific poultry rearing

2.9. Details of Benchmark Information collected from DFI villages

Sl.No.	Taluk	Name of the block	Name of the village	Name of the Head of Household	Annual Gross Income (Rs.)	Annual Expenditure (Rs.)	Annual Net Income (Rs.)
1	Thrissur	Pazhayannur	Pazhayannur	V.B Narayanankutty	280000	276000	4000
2	Thrissur	Pazhayannur	Pazhayannur	Mani	108760	64000	44760
3	Thrissur	Pazhayannur	Pazhayannur	Kuriakose K.M	71000	61000	10000
4	Thrissur	Pazhayannur	Pazhayannur	M. Muraleedharan	165000	161000	4000
5	Thrissur	Pazhayannur	Pazhayannur	Sivaraman	107000	16500	90500
6	Thrissur	Pazhayannur	Pazhayannur	Kuttan	200000	196000	4000
7	Thrissur	Pazhayannur	Pazhayannur	Sreemathy	230,400	216000	14400
8	Thrissur	Pazhayannur	Pazhayannur	T.K. Ali	201200	187700	13500
9	Thrissur	Pazhayannur	Pazhayannur	Ibrahim	297160	172000	125160
10	Thrissur	Pazhayannur	Pazhayannur	Abdul Rahman	155000	145000	10000
11	Thrissur	Pazhayannur	Pazhayannur	P.M Asnar	387000	363000	24000
12	Thrissur	Pazhayannur	Pazhayannur	Dushyanthan. S	410000	260000	150000
13	Thrissur	Pazhayannur	Pazhayannur	Babu. E	190000	135625	54375
14	Thrissur	Pazhayannur	Pazhayannur	Prema Ramakrishnan	71000	69500	1500
15	Thrissur	Pazhayannur	Pazhayannur	Ramakrishnan	58500	54000	4500
16	Thrissur	Pazhayannur	Pazhayannur	K.S Abdul Rahman	438000	432550	5450
17	Thrissur	Pazhayannur	Pazhayannur	Nainan	480500	440800	39700
18	Thrissur	Pazhayannur	Pazhayannur	Devadas	181000	171000	10000
19	Thrissur	Pazhayannur	Pazhayannur	Kabeer	114720	73000	41720
20	Thrissur	Pazhayannur	Pazhayannur	Peethambaran .S	335000	313500	21500
21	Thrissur	Pazhayannur	Pazhayannur	P.A Kabeer	196000	186600	9400
22	Thrissur	Pazhayannur	Pazhayannur	Unnikrishnan	81000	65500	15500
23	Thrissur	Pazhayannur	Pazhayannur	Bindu Sivaraman	375200	360000	15200
24	Thrissur	Pazhayannur	Pazhayannur	Prakash M.K	277000	204000	73000
25	Thrissur	Pazhayannur	Pazhayannur	Haridasn .P	60800	55800	5000
26	Thrissur	Pazhayannur	Pazhayannur	Unnikrishnan K.V	56000	54000	2000

27	Thrissur	Pazhayannur	Pazhayannur	Rema	75000	70000	5000
28	Thrissur	Chalakudy	Kodasserry	Jose	98000	60000	38000
29	Thrissur	Chalakudy	Kodasserry	Poly V.D	95500	90000	5500
30	Thrissur	Chalakudy	Kodasserry	Divakaran	337000	289000	48000
31	Thrissur	Chalakudy	Kodasserry	T. I Poulose	153000	108000	45000
32	Thrissur	Chalakudy	Kodasserry	V.I. Jose	558000	525000	33000
33	Thrissur	Chalakudy	Kodasserry	K.A Poulose	119400	113800	5600
34	Thrissur	Chalakudy	Kodasserry	Varghese	94000	26460	67540
35	Thrissur	Chalakudy	Kodasserry	C.V Devassykutty	1023500	972000	51500
36	Thrissur	Chalakudy	Kodasserry	Princy Wilson	225000	192000	33000
37	Thrissur	Chalakudy	Kodasserry	M.G Kumaran	164000	114200	49800
38	Thrissur	Chalakudy	Kodasserry	Shiji Johnson	984000	612000	372000
39	Thrissur	Chalakudy	Kodasserry	Shankuthala Valsan	117536	106900	10636
40	Thrissur	Chalakudy	Kodasserry	Ravi C.T	100250	99850	400
41	Thrissur	Chalakudy	Kodasserry	K. A Subrahmaniyan	122200	17540	104660
42	Thrissur	Chalakudy	Kodasserry	Ambili Suresh	95000	86300	8700
43	Thrissur	Chalakudy	Kodasserry	Anthony	33950	25600	8350
44	Thrissur	Chalakudy	Kodasserry	Subran	687500	591000	96500
45	Thrissur	Chalakudy	Kodasserry	I.M. Varghese	52000	49200	2800
46	Thrissur	Chalakudy	Kodasserry	Sudhan	276000	136000	140000
47	Thrissur	Chalakudy	Kodasserry	P.K david	642000	447000	195000
48	Thrissur	Chalakudy	Kodasserry	Biju K.S	710000	545000	165000
49	Thrissur	Chalakudy	Kodasserry	Gopi M.G	216000	123600	92400
50	Thrissur	Chalakudy	Kodasserry	Nisha Siju	36000	17000	19000
51	Thrissur	Chalakudy	Kodasserry	Mathew Sebastian	485325	465000	20325
52	Thrissur	Chalakudy	Kodasserry	Davis	245000	240000	5000
53	Thrissur	Ollukkara	Puthur	Jose K.V	58600	50500	8100
54	Thrissur	Ollukkara	Puthur	Babu M.K	125612	102000	23612
55	Thrissur	Ollukkara	Puthur	Chandrika Velukutty	92563	87600	4963
56	Thrissur	Ollukkara	Puthur	Shaju C.D	165350	155000	10350
57	Thrissur	Ollukkara	Puthur	Varghese	125632	100000	25632

58	Thrissur	Ollukkara	Puthur	Shobhana Ramakrishnan	785710	763700	22010
59	Thrissur	Ollukkara	Puthur	V. J Thankachan	165000	133000	32000
60	Thrissur	Ollukkara	Puthur	Kunjumon	485021	450000	35021
61	Thrissur	Ollukkara	Puthur	K.P Devassy	235000	220400	14600
62	Thrissur	Ollukkara	Puthur	P.K. Venugopalan	79000	26000	53000
63	Thrissur	Ollukkara	Puthur	Wilson K	133000	115800	17200
64	Thrissur	Ollukkara	Puthur	Isac E.P	300000	282000	18000
65	Thrissur	Ollukkara	Puthur	N.P Poulose	625000	600000	25000
66	Thrissur	Ollukkara	Puthur	P.M Venugopalan	104400	100000	4400
67	Thrissur	Ollukkara	Puthur	Thomas Elavumuttil	38700	15025	23675
68	Thrissur	Ollukkara	Puthur	K.V Paul	225666	200000	25666
69	Thrissur	Ollukkara	Puthur	Joseph	52698	46000	6698
70	Thrissur	Ollukkara	Puthur	M.K Mohanan	286584	246589	39995
71	Thrissur	Ollukkara	Puthur	Baby K.V	250000	192000	58000
72	Thrissur	Ollukkara	Puthur	Maya Poulose	68500	64800	3700
73	Thrissur	Ollukkara	Puthur	Subrahmanian	285634	270000	15634
74	Thrissur	Ollukkara	Puthur	Porinju	144500	120000	24500
75	Thrissur	Ollukkara	Puthur	Sajeev V.I	235500	227400	8100
76	Thrissur	Ollukkara	Puthur	Babu V.I	116400	110400	6000
77	Thrissur	Ollukkara	Puthur	Narayanan P.M	72000	22500	49500
78	Thrissur	Ollukkara	Puthur	Manojkumar T.T	52800	44700	8100
79	Thrissur	Ollukkara	Puthur	Santhosh	300000	228000	72000
80	Thrissur	Ollukkara	Puthur	Vasudevan P.I	210000	144600	65400
81	Thrissur	Ollukkara	Puthur	Mohandas	365210	356160	9050
82	Thrissur	Ollukkara	Puthur	T.S Anandhan	90000	89400	600
83	Thrissur	Ollukkara	Puthur	Jijo V.I	155896	144000	11896
84	Thrissur	Ollukkara	Puthur	Sasi P.A	98000	95000	3000
85	Thrissur	Ollukkara	Puthur	Sadasivan T.K	39200	38000	1200
86	Thrissur	Ollukkara	Puthur	George U.P	171000	125000	46000
87	Thrissur	Ollukkara	Puthur	Rema	90000	70000	20000
88	Thrissur	Ollukkara	Puthur	M.O Poulose	125000	117000	8000
89	Thrissur	Ollukkara	Puthur	Joseph	300000	256931	43069

90	Thrissur	Ollukkara	Puthur	Girija Kesavan	165500	133750	31750
91	Thrissur	Ollukkara	Puthur	Lonappan	240000	228000	12000
62	Thrissur	Ollukkara	Puthur	V.P Thomas	68500	62500	6000
93	Thrissur	Ollukkara	Puthur	Jeena Sebastian	533645	505000	28645
94	Thrissur	Ollukkara	Puthur	Shaju C.L	54250	41500	12750
95	Thrissur	Ollukkara	Puthur	George P.J	69000	50500	18500
96	Thrissur	Ollukkara	Puthur	Baby K.Y	46500	35200	11300
97	Thrissur	Ollukkara	Puthur	Damodaran	195698	183200	12498
98	Thrissur	Ollukkara	Puthur	Mathew C.P	538514	492000	46514
99	Thrissur	Ollukkara	Puthur	Jacob	358550	327600	30950
100	Thrissur	Ollukkara	Puthur	Biju V.A	82000	80000	2000

2.10. Priority thrust areas

Sl. No.	Thrust area
1	Integrated pest and disease management
2	Integrated weed management
3	Integrated nutrient management
4	Integrated farming system
5	Integrated crop management
6	Popularization of new high yielding varieties
7	Farm mechanization
8	Precision farming
9	Income generation through enterprises
10	Enhancing nutritional security of farm households
11	Scientific poultry rearing
12	Nutritional and feeding management in animals
13	Drought management
14	Animal production management

PART III - TECHNICAL ACHIEVEMENTS (2019)

3.A. Target and Achievements of mandatory activities

	t una meme venients of i	•								
		OFT			FLD					
		1			2					
	OFTs (No.)		Farmers (No.)		FLDs (No.)		Farmers (No.)			
Target Achievement		Target	Achievement	Target	Target Achievement		Achievement			
1	1	5	5	25	22	180	163			

		Training			Extension Programmes					
		3			4					
	Courses (No.)]	Participants (No.)		Programmes(No.) Participants (No.					
Target Achievement		Target	rget Achievement		Target Achievement		Achievement			
198	111	5450	4018	1709	1886	6525	315692			

Sec	ed Production (Q)		Planting material (Nos.)				
	5		6				
Target	Achievement	Target	Achievement				
4.3	3.86	56000	47534				

Livestock, poultry stra	ins and fingerlings (No.)	Bio-products (Kg)				
	7	8				
Target	Achievement	Target	Achievement			
35000	20613	12000	12051			

3.B1. Abstract of interventions undertaken

	Abstract of III						I	nterventions						
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	b	ply of io ducts
1.	Popularization of new high yielding varieties	Chilly	Lack of awareness on new varieties	Assessment of new varieties of chilli in Thrissur district		1			1		3000		No. 5	Kg 300
2.	IPDM	Rice	BLB		Ecofriendly management of BLB in rice	1			2	-	-	-	-	5
3	IWM	Rice	Severe weedy rice infestation		Integrated management of weedy rice in Kole lands of Thrissur District	1	-	-	1	-	-	-	-	-
4	Farm mechanization	Rice	Lack of farm mechanization		Demonstration of KAU Power operated pre- germinated paddy wet seeder	2	1							
5	INM	Rice	Micronutrient deficiency		Soil test based management of born deficiency in rice of kole areas	1			1					
6	Popularization of new high yielding varieties	Ragi	Lack of awareness on new high yielding varieties		Demonstration of millet ragi in Thrissur District	2			1	0.02				
7	ICM	Coconut	Lack of scientific management in coconut,		Integrated nutrient management in coconut	2			1					
8	Enhancing nutritional security	Pulses and leafy vegetables	Nutritional deficiencies		Nutritional garden for correctional and welfare institutions	1	1		2	0.06				
9	IPDM	Nutmeg	Severe Leaf fall and fruit rot in nutmeg after flood		Integrated management of leaf fall and fruit rot in nutmeg	2			3	-	-	-	-	20 kg
10	IPDM	Banana	Sigatoka leaf spot of banana		Organic management of Sigatoka leaf spot of banana	1			1	-	-	-	-	5 kg

11	IPDM	Bhindi	Cercospora	Foliar application of	1						
11	II DIVI	Dillingi	leaf spot	Trichoderma viride for	1						10
				integrated management			1				kg
				of Cercospora leaf spot in Bhindi							8
12	Farm	Banana	Lack of	Demonstration of KAU	2	1	1	5 units			
	mechanization		marketability	Banana Bunch covering				of			
			due to poor	device				banana			
			visual appeal of bunch					bunch covering			
			bunen					device			
13	INM	Banana	Micronutrient	Demonstration of	1		1				
			deficiency	secondary and micro							
				nutrient mix Ayar							
14	Popularization of	Turmeric	Lack of	Demonstration of short	2		1	-			
	new high		awareness on	duration Turmeric							
15	yielding varieties Precession	Vegetables	new varieties Insufficient and	variety Pragathy Demonstration of wick	1				Seedlings,		
13	farming	v egetables	untimely	irrigation units in urban	1				Growbags,		
			irrigation	vegetable gardens					Vermicompost,		
									coirpith		
									compost, sampoorna		
									nutrient		
1.5		a : .		5					mixture		
16	Enhancing nutritional	Spices and aromatic	Non availability of	Demonstration of vertical Kitchen garden	1		I		150	1	1
	security of farm	crops	cultivable land	for spicy leaves							
	households	•	and safe to eat								
			spicy leafy vegetables								
17	Nutritional and	Goat	Shortage of	Demonstration of No-	1						
	feeding		fodder	wastage Hexagonal							
	management in animals			Goat feeder							
18	Nutritional and	Fodder	Shortage of	Demonstration of	1						
	feeding		green fodder	Moringa oleifera as							
	management in		for cattle and non utilization	intercrop in coconut gardens as fodder							
	animals		of coconut	supplement in dairy							
			interspaces	cattle							
19	Nutritional and	Dairy	Environmental	Demonstration of	1						
	feeding		stress among	"ASWAS"-							
	management in animals		dairy cattle								
20	Nutritional and	Poultry	Unhygienic	Demonstration of	1						
	feeding		water supply in	Nipple Drinker System							
	management in animals		broiler farms	for Broiler Chicken							
	ammais										

21	Nutritional and feeding management in animals	Dairy	Lack of scientific management	Complete feed in growing kids under stall fed conditions	1								
22	Nutrition and feeding management in animals	Dairy	Fodder shortage	Demonstration of Little bag silage	2	-		2	-	-	-	-	-
23	Nutrition and feeding management in animals	Dairy	Fodder shortage	Demonstration of low cost hydroponic fodder technology in KVK	2			2	-	-	1	1	-
24	Nutrition and feeding management in animals	Dairy	Fodder shortage	Moringa olefera as fodder supplement to dairy cattle	2			1	0.03				
25	Nutrition and feeding management in animals	Dairy	Heat stress	Demonstration of automatic drinker assembly for dairy cattle	1	1		1	-	-	-	-	-
26	Animal production management	Duck	Lower income	Introduction of ducks in kole lands	2	1	-	1	-	-	800 nos, ducks		-

3.B2. Details of technology used during reporting period

					I	No.of programmes co	onducted
S.No	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Assessment of new varieties of chilli in Thrissur district	KAU	Chilly	1		1	
2	Eco friendly management of BLB in rice	KAU	Rice		1	1	
3	Soil test based nutrient management- Boron	KAU	Rice		1	1	
4	Weedy rice management	KAU	Rice		1	1	
5	Transplanter	KAU	Rice		1	3	
6	Ragi- variety- GPU 28	KAU	Ragi		1	2	
7	ICM – Coconut	KAU	Coconut		1	2	
8	Nutritional garden	KAU	Vegetables		1	2	
9	Integrated management of leaf fall and fruit rot in Nutmeg	KAU	Nutmeg		1	2	Method Demonstration – 1 No.

10	Organic management of sigatoka leaf spot of banana	KAU	Banana	1	1	Method Demonstration – 1 No
11	Demonstration on application of Secondary and micro nutrient mix Ayar in Banana	KAU	Banana	1	1	Method Demonstration – 1 No
12	Demonstration of short duration Turmeric variety Pragathy	IISR	Turmeric	1	2	
13	Wick irrigation	KAU	Vegetables	1	1	Method demonstration – 1 no.
14	Foliar application of <i>Trichoderma</i> viride for integrated management of <i>Cercospora</i> leaf spot of Bhindi	KAU	Bhindi	1	1	Method Demonstration – 1 No
15	Demonstration of vertical Kitchen garden for spicy leaves		Leafy vegetables	1	1	
16	Hexagonal goat feeder	KVASU	Dairy	1	1	
17	Feed- Dairy	KVASU	Dairy	1	1	
18	Fodder morringa- PKM1	TNAU	Fodder	1	1	
19	Automated Thermal Stress Alleviator for Livestock	KVASU	Dairy	1	1	
20	Nipple drinker	KAVASU	Poultry	1	1	
21	Banana bunch cover	KAU	Banana	1	1	
22	Little bag silage	KAU	Fodder	1	2	Method demonstrations -2
23	low cost hydroponic fodder technology	KAU	Fodder	1	2	Method demonstrations -2
24	Moringa olefera as fodder supplement t	KAU	Fodder	1	2	Method demonstrations -1
25	Automatic drinker assembly	KAU	Dairy	1	2	Method demonstrations – 1
26	Vigova ducks	KAU	Enterprise	1	3	Method demonstrations -2

3.B2 contd..

		No. of farmers covered														
			OFT			F	LD			Tra	ining			Others (Fiel	d programs)	
	General		SC/ST		General		SC/ST	SC/ST		General			General		SC/ST	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1.	5								5							
2.	-	-	-	-	4	-	1	-	13	7			13		8	
3.	-	-	-	-	4		1		18		2		56	10	2	1
4.	-	-	-	-	4		1		18	4	6	2	18	12	5	1
5.	-	-	-	-	5								3	18	2	5
6.	-	-	-	-	7	2			23	5	2		42	15	9	3
7.	-	-	-	-	6		3		80	15	6	2	12	21	3	1
8.	-	-	-	-	5								6	8		1
9.	-	-	-	1	5	5	-	ı	20	ı			15	17		
10.	-	-	-	-	5	-	-	1	10	ı			12	3		5
11.	-	-	-	-	5				8				7		1	
12.	-	-	-	-	5	•			4				9	4	3	
13.	-	-	-	-	5								8	7	3	
14.	-	-	-	1	5	-	-	ı	10	ı			23	12		3

15.	-	-	-	-	4				4				15	10	2	
16.	-	-	-	-	4				15	5	6		12	9	1	5
17.	-	-	-	-	3	2			12	8		3	12	16		
18.	-	-	-	-	3	2			22	12	5	2	16	12	3	4
19.	,	-	-	-	2				36	18	6		14	8	5	
20.	,	-	-	-	3				18	9			18	7		
21.	,	-	-	-	5				8	15		4	10	5	6	2
22.	-	-		-	8	6	2	4	42	35	10	5	42	35	10	5
23.	1	-	-	-	KVK farm	KVK farm	KVK farm	KVK farm	35	21	9	2	35	21	9	2
24.	-	-	-	-	15	5	-	-	33	15	10	4	12	8	2	3
25.	-	-	-	-	5	4	1	-	28	22	5	2	18	8	2	1
26.	-	-	-	-	18	5	2	-	69	42	18	11	28	13	11	8

PART IV - On Farm Trial (2019)

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

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

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

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

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

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

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

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

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all Technological Options in a farm)
Integrated Nutrient Management					
Varietal Evaluation	Chilly	Assessment of new varieties of chilli in Thrissur district	5	4	0.012
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
peed, I talk production					

Value addition			
Drudgery Reduction			
Storage Technique			
Mushroom cultivation			
Total		5	

4.B.2. Technologies Refined under various Crops (Nil)

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all Technological Options in a farm)
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production			<u> </u>		_

Value addition				
Drudgery Reduction		_	_	
Storage Technique				
Mushroom cultivation				
Total				

4.B.3. Technologies assessed under Livestock and other enterprises (Nil)

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

4.B.4. Technologies Refined under Livestock and other enterprises (NIL)

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

4.C1.Results of Technologies Assessed

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield	Gross Return Rs. / unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
chilli	Open cultivation	Lack of awareness about newly released varieties VellayaniThejas&Keerthi	Assessment of new varieties of chilli in Thrissur district	5	T.O.1 Farmers practice)	KAU	Ongoing		There was high incidence of pest (Thrips) attack leading to crop failure			
					T.O.2 - Keerthi							
					T.O.3- Vellayani Tejas							

4.C2. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

- 1. Title of Technology Assessed
- 2. Performance of the Technology on specific indicators
- 3. Specific Feedback from farmers
- 4. Specific Feedback from Extension personnel and other stakeholders
- 5. Feedback to Research System based on results and feedback received

4.D1. Results of Technologies Refined (nil)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Refined	Source of technology	Yield	Unit of yield	Observations other than yield	Gross Return Rs. / unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
					T.O.1 (Farmers practice)							
					T.O.2							
					T.O.3							

4.D.2. Details of Technologies refined: (Nil)

- 1. Title of Technology Refined
- 2. Performance of the Technology on specific indicators
- 3. Specific Feedback from farmers
- 4. Specific Feedback from Extension personnel and other stakeholders
- 5. Feedback to Research System based on results/feedback received

PART V - FRONTLINE DEMONSTRATIONS (2019)

5.A. Summary of FLDs implemented

S1.		Farming	Season				Thematic area	Technology		(ha)		ers (No.)	Farmer	
No.	Category	Situation		Crop	Variety/ breed	Hybrid		Demonstrated	Proposed	Actual	SC/ST	Others	Small/ Marginal	Others
1	Oilseeds	Upland	All	coconut	West coast tall	-	Integrated nutrient managemnt	Soil test based nutrient application	200 palms	200 palms		9	9	
	Pulses													
	Cereals													
2	Rice	Lowland	Feb- May	Rice	Uma	-	Integrated disease management	Seedling dip in 2% Pseudomonas fluorescensfollo wed by fortnightly foliar spray with 2% P. fluorescensin cow dung slurry supernatant. Application of Streptocycline @ 6 g/20 litre on symptom appearance	0.6	0.6	-	5	5	-
3	Rice	Low land	Dec- march	Rice	Uma	-	Integrated weed management	Stale seed bed preparation, Herbicide application, hand weeding, wick	0.6	0.6		5	5	
4		Low land	Dec-	Rice	Uma	-	Integrated	applicator Soil test based	0.6	0.8		5	5	
	Rice		march				nutrient management	nutrient application						
5	Rice	Lowland	Novemb er- Decemb er to Februar y - March	Rice	Uma		Farm mechanisatio n	KAU power operated pre germinated paddy wet seeder	2	2		4	3	1
6	Millets	Upland	Nov- feb	Ragi	GPU -28		Popularizati on of new varieties	GPU- 28	0.4	0.4	1	9	10	
7	Vegetables	Vertical garden	January- march	Leafy vegetabl es	Local		Urban horticulture	Demonstration of vertical kitchen garden	5 units	5		5	5	

								for spicy leaves					
8	Vegetables	Vegetable garden	January – March	Assorte d vegetabl es			Urban horticulture	Demonstration of wick irrigation units in urban vegetable gardens	3 units	3	3	3	
9	Vegetables	Homestead	July- Sept	Bhindi	Arka Anamika	-	Integrated disease management	Application of Trichoderma viride 2% thrice at fortnightly intervals	0.1	0.1	5	5	
	Flowers								1				
	Ornamental												
	Fruit											1	
10		Irrigated	March- Nov & Oct- June	Banana	Nendran	-	Integrated disease management	Application of turmeric powder and baking soda in 5:1 ratio four times in monthly intervals from the onset of	1.0	1.0	5	5	
	Banana							disease					
11	Banana	Irrigated	March- Nov & Oct- June	Banana	Nendran	-	integrated nutrient management	Demonstration of Ayar micro nutrient mix in Banana: Soil application of 100 grmayar 2 months after planting and 100 gram after 4 months after planting	0.2	0.2	5	5	
12	Banana	Irrigated	Septemb er – October to May-	Banana	Nendran	-	Farm mechanizati on	KAU Banana bunch covering device	500	500	5	5	
13	Spices and condiments	Open cultivation	Jun4 June- january	Turmeri c	IISR Pragathy		Popularizati on of high yielding variety	Demonstration of short duration Turmeric variety IISR <i>Pragathy</i>	0.20	4	4	4	
14	Nutmeg	Upland	Annual	Nutmeg	Local	-	Integrated crop management	Foliar application of Copper	50 plants per	100 plants per	10	10	

								hydroxide 0.2%	plot	plot				
								twice along with						
								soil application						
								of Trichoderma						
								enriched cow						
								dung and neem						
								cake mixture @						
								10 land tone						
	Commercial							10 kg/ tree	_	_				+
	Commerciai													
	Medicinal and													
	aromatic													
15		Stall fed	Year	Goat	Malabari	-	Nutritional	PKM-1 morringa	0.2	0.2		5	5	
	F 11		round				and feed	as intercrop in						
	Fodder						management	coconut gardens						
16		Stall fed	Summer	Dairy	Cross		Nutritional	Little bag silage	20	20	6	14	20	
					breeds		and feed		units	units	-			
							management							
17		Stall fed	Year	Dairy	All	-	Nutritional	Hydroponic	1 unit	1 unit		1		
			round				and feed	fodder						
							management	production						
18		Stall fed	Year	Dairy	All		Nutritional	PKM 1 in open	0.8	0.8		20	20	
10		Starr rea	round	2 unj	1		and feed	conditions	0.0	0.0		1 20	1 -0	
			Tourid				management	Conditions						
	Plantation						типидетен							
	Tiuntation													
	Fibre													
19		Stall fed	Year	Cattle	Cross	_	Nutritional	ASWAS	2 units	2		2	2	
			round		breeds		and feed			units				
	Dairy		Tourid		orecas		management			units				
20		Stall fed	Summer	Cattle	All breeds		Nutritional	Automatic	10	10	1	9	10	
20		Stair rea	Summer	Cuttie	7 III orceas		and feed	drinker	units	units	1		10	
							management	dillikei	units	units				
												1		
21		Caged	Year	Poultry	BV 380,	-	Nutritional	Nipple drinker	3 units	3	1	3	3	†
1			round		Grama sree		and feed	TT		units			-	
	Poultry		Tound		Grania siec		management			units				
	Rabbitry													
	Piggery													
											1			

														,
22	Sheep and goat	Stall fed	Year round	Goat	Malabari	-	Nutritional and feed management	No wastage hexagonal goat feeded	4 units	4 units		4	4	
23		Stall fed	Year round	Goat	Malabari	-	Nutritional and feed management	Custom made feed for kids	5 units	5 units		5	5	
24	Duckery	Open	Year round	Duck	Vigova	-	Animal production management	Vigova ducks	25 units	25 units	2	23	25	
	Common carps													
	Common curps													
	Mussels													
	Ornamental fishes													
	Oyster mushroom													
	Button mushroom													
	Vermicompost													
	Sericulture													
	Apiculture													
	Implements													
	Others (specify)													
25		Uplands	Dec - Mar	Vegetab les and local	-	-	Enhancing nutritional security of farm	Nutritional garden for correctional and welfare	0.6	0.5	-	5 insti tuti ons		
	Nutrition garden			fruits			households	institutions				OHS		

5.A. 1. Soil fertility status of FLDs plots, if analysed

Sl.	Category	Farming Situation	Season and	Crop	Variety/	Hybrid	Thematic area	Technology	Season and		Status of soi	1	Previous crop grown
No.	2 ,		Year	1	breed	,		Demonstrated	year	N	P	K	
1	Oilseeds	Upland	All	Coconut	West coast tall		Integrated crop management	Soil test based nutrient application and green manuring	All	Medium	High	Medium	Coconut
	Pulses												
2	Cereals	Low land	Dec- march- 2020	Rice	Uma		Integrated nutrient management	Soil test based nutrient application	Dec- march - 2020	High	Low	High	Rice
	Millets												
	Vegetables												
	Flowers												
	Ornamental												
3		Upland	All	Banana	Nendran		Integrated	Application of Ayar	All	Medium	High	High	Banana
	Fruit						Nutrient Managemnt						
4		Upland	All	Banana	Nendran		Integrated Nutrient Management	Application of Ayar	All	Medium	Medium	High	Banana
	Spices and						Ţ.						
	condiments												
	Commercial												
	Medicinal and												
	aromatic												
	Fodder												
	rouder							_					
	Plantation												
	Fibre												

5.B. Results of FLDs

5.B.1. Crops

5.B.1. Crop	S																
Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yie	eld (q/ha)		% Increase		s of demonst (Rs./ha)	ration		mics of che (Rs./ha)	eck
]	Demo		Check		Gross Return	Net Return	BCR	Gross Return	Net Return	BCR
							Н	L	Α								
Oilseeds																	
Coconut	Integrated crop management	West coast tall		Upland	10	200 palms		•				Ongoing					
Pulses																	
Tuises																	
Cereals																	
Rice	Eco friendly management of BLB in rice	Uma	-	Lowland	5	0.6						Ongoing					
Rice	Integrated management of weedy rice	Uma		Low land	5	0.6						Ongoing					
Rice	Soil test based boron managemnt	Uma		Low land	5	0.6						Ongoing					
Rice	Demonstration of KAU power operated pre germinated paddy wet seeder		-	Lowland	4	2.0						Ongoing					
Millets																	
Ragi	GPU-28 new variety	GPU- 28		Uplands	10	0.04						Ongoing	<u> </u>				
Vegetables	Demonstration of vertical kitchen garden for spicy leaves	local		Homestead	5	5 units						Ongoing					
Bhindi	Foliar application of <i>Trichoderma</i> viride for integrated management of <i>Cercospora</i> leaf spot of Bhindi	Arka Anamika	-	Homestead	5	0.1	79.18	71.4	72.2	65.3	10.56	2,27,827	1,62,947	3.625	1,63,250	98,250	2.51
Vegetables	Demonstration of wick irrigatin units for urban vegetable gardens	Assorted vegetables for kitchen garden		Urban horticulture	3							Ongoing					
Flowers																	
							İ										

Ornamental																	
Fruit																	1
Tunt				T]	1			
	Organic management of			Irrigated													
	sigatoka leaf spot	Nendran			5	1.0						Ongoing					
Banana	of banana																
	of Ayar micro			Irrigated													
	nutrient mix in																
	Banana: Soil application of 100																
	grmayar 2	Nendran			5	0.20						Omasina					
	months after	Nelidrali			3	0.20						Ongoing					
	planting and 100 gram after 4																
	months after																
Banana	planting																
	Demonstration of			Irrigated			Ongoing										
	KAU Banana	Nendran			5	500 nos.	Ongoing										
Banana	Bunch Covering Device						S. Ongoing										
Spices and	Demonstration of			Homestead			. Chigomig										
condiments,	short duration	IISR			5	0.20						Ongoing					
Turmeric	Turmeric variety	Pragathy			3	0.20						Ongoing					
Turmenc	IISR Pragathy																
	Integrated management of		-	Upland													
NT .	leaf fall and fruit	Local			10	100					Trial v	vas terminated o	due to flood				
Nutmeg	rot in Nutmeg																
Commercial																	
Fibre crops																	
like cotton																	
																	<u> </u>
Medicinal and													1	1			
aromatic													1	1			
Fodder																	
										-			-	-			-
DI				1									1	ļ			
Plantation																	
													1	1			
Fibre																	
													1				
				<u> </u>													1

Others												
(pl.specify)												
Nutrition garden	Nutritional garden for correctional and welfare institutions	-	-	Upland	5	0.5			Ong	oing		

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

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

	Data on other parameters in relation	n to technology demonstrated
Parameter with unit	Demo	Check
Banana – Reduction of percent disease severity (%)	76%	24%
Bhindi - Reduction of percent disease index (%)	25%	20%

5.B.2. Livestock and related enterprises

Type of	Name of the technology demonstrated	Breed	No. of	No. of	Name of the	Yi	ield (q/l	ha.)/kg/	. per bird	%	*Econon	nics of demon Rs./unit)	stration	*Econ	omics of c (Rs./unit)	heck
livestock	Name of the technology demonstrated	Diccu	Demo	Units	parameter with unit		Demo		Check if any	Increase	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						Н	L	Α			Return	Ketuiii	BCK	Return	Return	DCK
Dairy	Automatic drinker assembly		10					-	Ongoing							
	Demonstration of "Aswas"		2													
Poultry	Demonstration of Nipple Drinker System for Broiler Chicken		3						Ongoing							
Rabbitry																
Pigerry																
Sheep and																
goat	Demonstration of No-wastage Hexagonal Goat feeder		5						Ongoing							
	Complete feed in growing kids under stall fed conditions		5						Ongoing							
Duckery	Vigova ducks	Vigova	25			3.7	3.2	3.0			540	310	2.35	270	170	1.5
Fodder	High density Moringa olefera cultivation		20			500	200	300			NA	NA	NA	NA	NA	NA
	Low cost hydroponic fodder production		1			8	6	6.8			NA	NA	NA	NA	NA	NA
	Little bag silage		20			5	3.4	4.2			NA	NA	NA	NA	NA	NA
	Demonstration of Moringaoleifera as intercrop in coconut gardens as fodder supplement in dairy cattle		5						Ongoing							

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

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

					•			•	

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

** BCR= GROSS RETURN/GROSS COST

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

J		rouse in concerting race, meer curting period every										
	Data on other parameters in relation to technology demonstrated											
Parameter with unit	Demo	Check if any										

5.B.3. Fisheries:Nil

Type of	Name of the technology	Breed	No. of	Units/ Area	Name of the parameter with unit	Yield (q/ha)				%	*Econo	mics of demonst (Rs./unit)	ration	*Economics of check (Rs./unit)		
Breed	demonstrated	Breed	Demo	(m ²)		I	Demo		Check if any	Increase	Gross	Net Return	** BCR	Gross	Net	** BCR
						Н	H L A		-	Return			BCK	Return	Return	BCK
Common carps																
Mussels																
Ornamental																
fishes																
Others																
(pl.specify)																

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

H-High L-Low, A-Average

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

Data on additional parameters other than jr	ela (vizi, readerion of percentage asseases, en	zetive use of land etci) fin								
Data on other parameters in relation to technology demonstrated										
Parameter with unit	Demo	Check if any								

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

5.B.4. Other enterprises

	Name of the technology		No. of	Units/ Area {m²}	Name of the			Yie	eld	%	*Economics	of demonstration or (Rs./m2)	(Rs./unit)		*Economics of check (Rs./unit) or (Rs./m2)		
Enterprise	demonstrated	Variety/ species	Demo		parameter with unit	Demo)	Check if any	Increase	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR	
						Н	L	Α									
Oyster																	
mushroom																!	
Button																 	
mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																1	
Others																	
(pl.specify)																	
	Value addition of passion fruit	Passion fruit – Yellow & violet type	2	-	-	-	-	-	Ongoing								

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

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

\mathbf{r}		some generation, quantum or rarm resources reej erea ever,									
Data on other parameters in relation to technology demonstrated											
Parameter with unit	Demo	Local									

5.B.5. Farm implements and machinery

Name of the	Cost of the implement in	Name of the technology	No. of	Area covered	Name of the		equirement andays	0/ covo	Savings in labour	*Econom	ics of demons (Rs./ha)	stration	*Eco	nomics of che (Rs./ha)	eck
implement	Rs.	demonstrated	Demo	under demo in ha	operation with unit	Demo	Check	% save	(Rs./ha)	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
										Keturn	Return	DCK	Return	Return	DCK

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

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

Data on additional parameters other than laboursaved (viz., reduction in drudgery, time etc.)

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

.B.6.Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	4	79	
2	Farmers Training	38	881	
3	Media coverage	2		
4	Training for extension functionaries	1	30	
5	Others (Please specify)			

PART VI – DEMONSTRATIONS ON CROP HYBRIDS(2019) (NIL)

Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)		Yie	eld (q/	ha)	% Increase	*Economic	s of demonstration	n (Rs./ha)	*Economics of check (Rs./ha)		
• •		,				Dem	O	Check		Gross		**	Gross	N-4 D-4	**
					Н	L	Α			Return	Net Return	BCR	Return	Net Return	BCR
Cereals															
Bajra															
Maize															
Paddy															
Sorghum															
Wheat															
Others (pl.specify)															
Total															
Oilseeds															
Castor															
Mustard															
Safflower															
Sesame															
Sunflower															
Groundnut															
Soybean															
Others (pl.specify)															
Total															
Pulses															
Greengram															
Blackgram															
Bengalgram											·				
Redgram															
Others (pl.specify)															

Vegetable crops	Total								
Botle gourd Capsicum Others (pl.specify) Cotal Cucumber Fromato Fromato Others (pl.specify) Cotal Cucumber Tomato Cotal Cucumber Total									
Capsicum Others (pl.specify) Total Cucumber Cucu									1
Others (pl.specify)				-					
Total	Capsicum								
Cucumber Conato Brinjal Okra Onion Potato Field bean Others (pl.specify) Total Commercial crops Sugarcane Cocont Chers (pl.specify) Total Cothers (pl.specify)									
Tomato									
Brinjal									
Okra	Tomato								
Onion Potato Image: Commercial crops Image: C	Brinjal								
Potato	Okra								
Field bean Others (pl.specify) Total Commercial crops Sugarcane Coconut Others (pl.specify) Total Cothers (pl.specify) Total Others (pl.specify) Total Others (pl.specify) Total Fodder crops Maize (Fodder) Sorghum (Fodder) Others (pl.specify)	Onion								
Others (pl.specify)	Potato								
Total <td>Field bean</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Field bean								
Commercial crops Sugarcane	Others (pl.specify)								
Sugarcane	Total								
Sugarcane	Commercial crops								
Coconut </td <td>Sugarcane</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Sugarcane								
Others (pl.specify)	Coconut								
Total	Others (pl.specify)								
Maize (Fodder)	Total								
Maize (Fodder)	Fodder crops								
Sorghum (Fodder)	Maize (Fodder)								
Others (pl.specify)	Sorghum (Fodder)								
	Others (pl.specify)								
	Total								

H-High L-Low, A-Average *Please ensure that the name of the hybrid is correct pertaining to the crop specified

PART VII. TRAINING (2019)

7.A. Training of Farmers and Farm Women including sponsored training programmes (On campus)

	No. of					No. of Participa	nts			
Area of training	Courses		General			SC/ST			Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification	1	10	22	22	2		2	12	22	34
Integrated Farming	2	52	60	112	8	5	13	60	65	125
Micro Irrigation/Irrigation	2	72	28	100	2	1	3	74	29	103
Seed production										

Nursery management										
Integrated Crop Management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	3	49	30	79	2	21	23	51	51	102
Off-season vegetables										
Nursery raising	1	17	13	30				17	13	30
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										

Export potential of ornamental plants										
Propagation techniques of Ornamental Plants	1	-	25	25	-	4	4	-	29	29
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers	1	40	42	82	6	5	11	46	47	93

Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	5	140	45	185	19	9	28	159	54	213
Poultry Management	1	21	7	28	1	-	-	22	7	29
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	-	16	-	-	=	-	-	165	16
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen 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	5	100	65	165	13	5	18	113	70	183
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	7	68	129	197	5	5	10	73	134	207
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance	1	80	14	94	11	-	11	91	14	105
Installation and maintenance of micro irrigation systems										

	1	1	1	1		T	1		1	,
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)- Pesticide spraying	1	8	8	16	5	3	8	13	11	24
Plant Protection										
Integrated Pest Management	3	6	40	46	4	3	7	10	43	53
Integrated Disease Management	1	3	12	15	10	3	13	13	15	28
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify) safe use of pesticides	1	10	11	21	3	-	3	13	11	24
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										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site Seed Production										

Planting material production										
Bio-agents production										
Bio-pesticides production	1	4	3	7	-	-	-	4	3	7
Bio-fertilizer production	1	8	15	23	2	5	7	10	20	30
Vermi-compost production										
Organic manures production	1	-	12	12	-	6	6	-	18	18
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	6	75	29	104	16	10	26	91	39	130
Apiculture	1	12	4	16	4	12	16	16	16	32
Others (pl.specify)										
CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies	1	40	19	59	3	1	4	43	20	63
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	48	815	649	1438	116	98	213	931	896	1678

7.B Training of Farmers and Farm Women including sponsored training programmes (Off campus)

	No. of				N	lo. of Participa	nts			
Area of training	Courses		General			SC/ST			Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems	4	38	50	88	7	5	12	45	55	100
Crop Diversification	1	22	15	37	5	-	5	27	15	42
Integrated Farming	1	8	10	18	5	5	10	13	15	28
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	4	60	80	140	22	14	36	82	94	176
Off-season vegetables										
Nursery raising	2	19	61	80	6	10	16	25	71	96
Exotic vegetables										
Export potential vegetables										
Grading and standardization	1	4	14	18						18
Protective cultivation										
Others (pl.specify)										
b) Fruits										

Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	2	48	51	99	6	6	12	54	57	111
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology	2	48	12	60	4	3	7	52	15	67
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										

Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	3	88	40	128	6	6	12	94	46	140
Poultry Management	2	31	130	161	9	20	29	40	150	190
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	32	38	70	3	2	5	35	40	75
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet		1								
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
	l		<u> </u>		l				<u> </u>	1

Processing and cooking	1	11	20	31				11	20	31
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1		18	18		4	4		22	22
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance	1	25	38	63	4	3	7	29	41	70
Installation and maintenance of micro irrigation systems	1	3	25	28	-	2	2	3	27	30
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)										
Plant Protection										
Integrated Pest Management	2	30	14	54	2	2	4	32	16	98
Integrated Disease Management	3	65	62	127	7	5	12	72	67	139
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
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										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
		T	T	1	· · · · · ·	•				T
Production of Inputs at site Seed Production										
Planting material production										
Bio-agents production	1	32	12	44	8	3	11	40	15	55
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Hy and Higerings 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)										
CapacityBuilding and Group Dynamics										
Leadership development	2	12	48	60	-	12	12	12	60	72

Group dynamics	1	-	18	18	-	12	12	-	30	30
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	36	576	756	1342	94	114	208	666	856	1590

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

	No. of				No. o	f Participants				
Area of training	Courses		General			SC/ST			Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										

Value addition	1	12	12	4	4	16	16
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	1	12	12	4	4	16	16

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

	No. of				No. of	f Participants						
Area of training	Courses											
		Male	Female	Total	Male	Female	Total	Male	Female	Total		
Nursery Management of Horticulture crops												
Training and pruning of orchards												

	I	1	T			I		I	1
1	11	18	29	2	5	7	13	23	36
	1		1 11 18	1 11 18 29					

Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	1	11	18	29	2	5	7	13	23	36

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

	No. of				No.	of Participants				
Area of training	Courses		General			SC/ST			Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	5	90	82	172	10	8	18	100	90	190
Integrated Nutrient management	1	25	34	59	5	6	11	30	40	70
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										1
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization	1	10		10	2		2	12		12
Information networking among farmers										
Capacity building for ICT application	1	3	2	5				3	2	5
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify), Integrated Disease management	4	-	32	32	-	18	18	-	50	50
Total	12	128	150	278	17	32	49	145	182	327

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

	No. of				No.	of Participants				
Area of training	Courses		General			SC/ST			Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	1	20	12	32	5	3	8	25	15	40
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology	1	12	9	21	3	3	6	15	10	25
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	2	99	35	134	6	7	13	105	42	147
Livestock feed and fodder production										
Household food security										
Any other (pl.specify) Value addition	2	18	34	52	4	4	8	22	38	60
Total	6	149	90	239	18	17	35	167	105	272

7.G. Sponsored training programmes conducted

	onsored training programmes conducted	No. of Courses				N	o. of Participar	nts			
S.No.	Area of training	0.0000000		General			SC/ST			Grand Total	
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Increasing production and productivity of crops	1	88	10	98	2	-	2	98	2	100
1.b.	Commercial production of vegetables	3	38	48	86	3	3	6	41	51	92
2	Production and value addition										
2.a.	Fruit Plants										
2.b.	Ornamental plants	1	-	22	22		7	7		29	29
2.c.	Spices crops										
3.	Soil health and fertility management										
4	Production of Inputs at site	1	6	5	11	4	2	6	10	7	17
5	Methods of protective cultivation										

6	Others (pl.specify)										
7	Post harvest technology and value addition										
7.a.	Processing and value addition										
7.b.	Others (pl.specify)										
8	Farm machinery										
8.a.	Farm machinery, tools and implements	1	20	3	23	6		6	26	3	29
8.b.	Others (pl.specify)										
9.	Livestock and fisheries										
10	Livestock production and management										
10.a.	Animal Nutrition Management	1		82	82		18	18		100	100
10.b.	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Others (pl.specify) Fodder	1		13	13		3	3		16	16
11.	Home Science										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
	Processing	5	4	99	103	3	23	26	7	122	129
12	Agricultural Extension										
12.a.	CapacityBuilding and Group Dynamics										
12.b.	Others (pl.specify)										
	Apiculture	1		15			1	1		16	16
	Mushroom	1		35			4			39	39
	Integrated farming system		8	13	21	2	2	4	10	15	25
	Agroforestry	1	40	19	59	3	1	4	43	20	63
	Spices	1	26	4					26	4	30
	Total	18	230	368	518	23	64	83	261	424	685

Details of sponsoring agencies involved

- 1. ATMA-Thrissur
- 2. Department of Agriculture and Farmers welfare
- 3. Coconut development board 4. Kudumbasree mission –Thrissur
- **5. Institute of Forest Genetics and Tree BreedingCoimbatore**

7.H. Details of Vocational Training Programmes carried out by KVKs for rural youth

S.No.	Area of training	No. of Courses				N	o. of Participar	nts			
		Courses		General			SC/ST			Grand Total	
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Commercial floriculture	3	35	42	77	5	8	13	40	50	90
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management	2	28	16	44	3	4	7	31	20	51

1.e.	Organic farming										
1.f.	Others (pl.specify)										
2	Post harvest technology and value addition										
2.a.	Value addition										
2.b.	Others (pl.specify)										
3.	Livestock and fisheries										
3.a.	Dairy farming										
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl.specify)										
4.	Income generation activities										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides,										
	bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery										
	and implements										
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
5	Agricultural Extension										
5.a.	Capacity building and group dynamics	2	8	10	20	1	1	2	9	12	21
5.b.	Others (pl.specify)	_	1								
	Grand Total	7	71	68	141	9	13	22	80	82	162

7.F. Details of Skill Training Programmes carried out by KVKs under ASCI- NIL

S. No.	Name of Job Role	Date of Start	Date of Close	Total Participants		No. of Participants					Date of Assessment	No of Participants passed assessment			
110.		of Start		1 articipants		General			SC/ST		G	rand Tot	tal		
					Male	Female	Total	Male	Female	Total	Male	Female	Total		
1															
2.															

PART VIII – EXTENSION ACTIVITIES (2019)

8.1. Extension Programmes (including extension activities undertaken in FLD programmes)

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No.of extension personnel		
<u> </u>		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	4	40	21	61	5	7	12	3	3	6
KisanMela	1	180	150	330						
KisanGhosthi	4									
Exhibition including pooram and	8	73005	81135	154140						
VAIGA										
Film Show										
Method Demonstrations	21	52	72	124	8	6	14	5	4	9
Farmers Seminar	5	138	112	250	12	8	20	4	2	6
Workshop	1	160	20	180	25	-	25	3	1	4
Group meetings	22	168	216	384	6	8	14			
Lectures delivered as resource persons	33	532	630	1162	28	23	51	11	18	29
Newspaper coverage	15									
Radio talks	3									
TV talks	2									
Popular articles	4									
Extension Literature	4									
Advisory Services	685	425	260	685						
Scientific visit to farmers field	25									
Farmers visit to KVK	1019									
Diagnostic visits	16									
Exposure visits	6	110	50	160	10	10	20	8	4	12
Ex-trainees Sammelan	1	12	8	20						
Soil health Camp										
Animal Health Camp	1	6	8							
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
MahilaMandals Conveners meetings										
Celebration of important days (specify)										
World Environmental day	1			25						
World food safety day	1			30						
RashtriyaSankaldhiwas	1			32						
World disability day	1			53						
World soil day	1			32						
World Coconut day	1			100						
Swachhthapakhwada campaign	1			450						
Any Other (Specify)										
Total	1886	74828	82682	158218	94	62	156	34	32	66

8.2 Special Extension Programmes

Nature of Extension Programme	Date(s) conducted	No. of farmers (General)			No. of farmers SC / ST			No.of extension personnel		
Nature of Extension Programme	Date(s) conducted	Male	Female	Total	Male	Female	Total	Male	Female	Total
Jal Shakti Abhiyan										
Fertilizer Use Awareness Campaign	22.10.2019	124	23	159	12	-	12		2	2
National Animal Disease Control	11.09.2019	10	3	13				4		
Programme										
Tree Plantation Campaign	17.09.2019	50	16	63				1		
Any other, Pl.specify										

PART IX - PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL (2019)

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Name of the Variety	Name of the Hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)		Variety	Trybrid	(4)	(Ius)	whom provided
Oilseeds	Sesamum			0.22	5500.00	
	Cowpea	Lola		0.44	87000.00	
Pulses	Cowpea	Anaswara		0.45	44850.00	
	Cowpea	Kanakamony		0.91	11460.00	
Commercial crops						
	Bittergourd	Preethi		1.13	306625.00	
X7 (. 1.1	Snakegourd	Manusree		0.31	27750.00	
Vegetables	Amaranthus	Arun		0.09	17150.00	
	Bhindi	Varsha Upahar		0.21	30675.00	
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others (specify)						
Total						

9.B. Production of planting material by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Commercial	Bush Jasmine			2114	21140.00	
Vegetable seedlings	Onion, Cabbage, Cauliflower, Tomato, Chilli, Brinjal, Carrot, Beetroot			33365	66730.00	
v egetable seedings	Drumstick Seedlings	PKM 1		1023	15345.00	
	Curry Leaf Seedlings			70	1050.00	
	Chaya manasa			51	1530.00	
	Papaya		Red Lady	813	24390.00	
Fruits	Mango Graft	Kalliketty, Kalpadi, Benet Alphonso, Amrutham, Kolumbu, Black and Rose, Chandrakkaran, Priyur		3880	324750.00	
Ornamental plants	Flowering Plants			241	4820.00	
Medicinal and Aromatic	Mint			596	5960.00	
Plantation	Coconut	COD		50	8750.00	
Spices	Pepper Cuttings	Panniyur 1		5031	50310.00	
Tuber						
Fodder crop saplings	Hybrid Napier		CO-4	300	300.00	
Forest Species						
Others(specify)						
Total						

9.C. Production of Bio-Products

	Name of the bio-product	Quantity		Number of farmers to
Bio Products		(q)	Value (Rs.)	whom provided
Bio Fertilizers				
Bio-pesticide	Nanma (L)	566	316960.00	

	Menma (L)	141.5	111077.50	
	Shreya (L)	450.8	225400.00	
Bio-fungicide				
	Pheromone Trap Mango (nos)	652	65200.00	
	Pheromone Trap Vegetable (nos)	509	76350.00	
Bio Agents	Mushroom Spawn (packets)	4462	178480.00	
	Mother Spawn (Nos)	9	1800.00	
	Tobacco Decoction Kit	161	8050.00	
	Fish Amino Acid (L)	5.6	2240.00	
	Jeeva (q)	1.31	2620.00	
Others (specify)	Ayar (q)	97.81	489050.00	
	Sampoorna Banana (q)	5.29	121670.00	
	Sampoorna Paddy (q)	2.64	60605.00	
	Sampoorna Vegetable (q)	13.46	309580.00	
Total				

9.D. Production of livestock

Particulars of Livestock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)	Goat – Malabari	97 kg	33950.00	
Poultry				
Broilers				
Lovors	BV 380	15238	228700.00	
Layers	Gramasree	4084	408400.00	
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks	Vigova	1287	172050.00	
Others (Pl. specify)	Vigova Eggs	50	500.00	

Piggery		
Piglet		
Others (Pl.specify)		
Fisheries		
Fingerlings		
Others (Pl. specify)		
Total		

PART X – PUBLICATIONS, SUCCESS STORY, INNOVATIVE METHODOLOGY, ITK, TECHNOLOGY WEEK

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

(A) KVK Newsletter:

Date of start: 2005 Periodicity: Yearly Copies printed in each issue: 500

(B) Literature developed/published

Sl.no	Item	Tittle	Publication	Author
1	Research paper:			
2	Technical report:			
3	Popular articles	1.Goose berry park	Kalpadhenu	Akhil T. Thomas
		2.KVK Thrissur a boom to	Krishijagaran	Akhil T. Thomas
		Thrissur farmers		
4	Extension literature	1.Integrated crop	KAU	Akhil T. Thomas and Lizz J
		management in banana		Mampally
		2.Integrated pest		Lizz J Mampally
		management in vegetables		
		3. Hand book on DAESI	KAU	All KVK staff

10.B. Details of Electronic Media Produced

S. No.	Type of media	Title	Details
	CD / DVD		
	Mobile Apps		
	Social media groups with KVK as Admin	KuttikoottamKrishiyilekku, KVK FLD Muringa	Total 23 members, participants of summer camp conducted at KVK. Group promotes agriculture among children. Total 11 members. Part of FLD on Muringa
	Facebook account name	KVK Thrissur	Total 11 members, 1 art of 1 LD on Maringa
	Instagram account name		

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

Title: Fadhil Mushrooms: Success story of a woman entrepreneur

Background: Mrs. Bashitha Rahim, Valiyadath house, Chettuva in Thrissur District is a successful woman entrepreneur involved in mushroom cultivation and its value addition. She initiated the cultivation of mushroom 10 years back to provide mushroom for her sick child as adviced by a doctor and she started including mushroom in the daily diet of her child which eventually helped to cure the acute diseased condition of her child. Later she started cultivation of mushroom in a larger scale and cultivates milky and oyster mushrooms.

Interventions: She gained knowledge in various aspects of mushroom production and value addition through trainings imparted by KVK Thrissur and flourished her enterprise with a strong technical support from scientists of KVK.

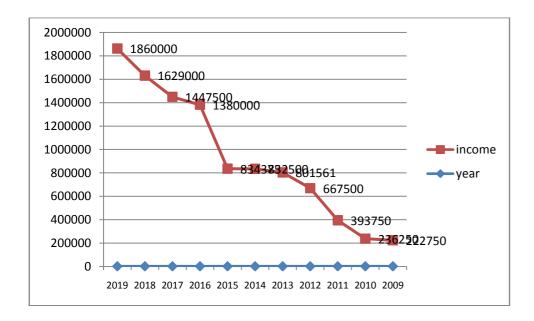
Process: Currently she cultivates 500 beds of milky mushroom and 1000 beds of oyster mushroom per batch. The average yield from one milky mushroom bed is 2.5 kg and that of oyster mushroom is 1.5 kg. She sells the fresh mushroom to a whole sale dealer at the rate of Rs 200 kg for milky mushroom and Rs.180/ kg for oyster Mushroom. She is also doing value addition of mushrooms since 2016 and prepares a variety of products like Burger, Cutlet, Shawarma, mushroom roll, mushroom pickles and dried mushroom powder. She also prepares compost using spent mushroom waste and is used for casing the milky mushroom beds and the excess quantity sells to other mushroom growers.

Technology: Technologies and recommendations of KAU is followed for cultivation of mushroom and value addition.

Impact: She is the major distributor of mushroom in shops at Chettuva. The value added products are also sold through bakery in Chettuva. Actively participates in exhibitions conducted by Governmental and Non-Governmental organizations. She also provides mushroom biriyani and other dishes as per order for social as well as household functions. She also sells ready to harvest mushroom beds for those who want to harvest fresh mushrooms at home.

Horizontal Spread: She provides technical guidance for those who want to start mushroom cultivation and value addition and so far trained nearly 200 persons in mushroom cultivation.

Economic gains: Her gross income from a batch comes around Rs. 5.2 lakh in 2 to 3 month. The net profit comes around Rs.4.65 lakh. She enjoys great level of financial independence and contentment from this enterprise. The graph depicts annual income from mushroom enterprise over 10 years is shown below:



Employment Generation: The unit is run by their own with the involvement of family members.

Success story: 2 Goat Village Project at Amballur: A Sustainable Model

Background: Goat Village Projectat Amballur is funded by NABARD and the technical support for the project is given by KVK. Initially the programme was started under Natural Resource Management Project of NABARD, which is now functional under area development scheme of NABARD. The project envisaged establishment of small scale integrated farming system models in farm households with special reference to goat farming. Earlier in 2015, NABARD has funded for a goat village programme in which each farmer individually got four goats and started rearing goats. After 2 to 3 years the programme was dissolved as the farmers resorted to sell their goat as and when they need money. Even though it was a good programme it could not achieve its target. Later the NABARD officials requested KVK Scientists to intervene. KVK scientists analyzed the situation and came out of the solution of rearing under JLG system with more number of animals.

Interventions: Capacity building programmes were organized in the field of scientific goat rearing, Scientific cultivation of Banana, Turmeric, fodder, composting and enterprise management. Krishi Vigyan Kendra, Thrissur gave four days skill training initially and conducted regular follow-up and monitoring as and when required..

Process: Two crore rupees were (to be disbursed as loan) transferred to Amballur Service Co-operative Bank by District Co-operative Bank and another 15 lakhs was given as assistance. Joint Liability group of four members were formulated and given 4 lakhs as loan for each group for establishing Hi-tech goat farm with 19 females and 1 male goat. Farming activities like banana cultivation, tumeric cultivation, fodder cultivation and roof top rain water harvesting were also undertaken. The Project started in 2019 March .Already 17groups (68farmers) are successfully involved in the project.

Technology: Technologies and recommendations of KAU is followed for Scientific goat rearing and Scientific cultivation of different crops.

Impact: Amballur Service Co-operative Bank initiated goat market to sell out the breeds reared under the scheme. Under the FLD programme of KVK farmers initiated cultivating moringa as fodder. The farmers have entered an agreement with *Oushadhi* (Ayurveda drug manufacturer under the Govt. of Kerala) to supply goat urine on a weekly basis and farmers are fetching additional income from this. Amballur Service Co-operative Bank also established a goat manure pulverizing machine and farmers are fetching additional income through the sale of goat manure to the pulverizing unit. The Bank is planning to establish a bio mass pelleting unit based on moringa. The goat farm villa is a sustainable model and KVK is planning to demonstrate this model in other DFI villages under KVK

Horizontal Spread: Within one year of the project, 68 farmers in Amballur village are successfully running their goat farms. KVK is planning to demonstrate this to other operational villages with the financial support of NABARD.

Economic gains: Within one year after implementation of the project, farmers could able to repay a good portion of the loan amount and in the coming years, they are expecting substantial profit from this project.

10.D. Give details of Innovative Methodology or Innovative Approach of Transfer of Technology developed and used during the year:

Button mushroom cultivation: Cultivation of button mushroom in Kerala is restricted only to the hilly tracts. KVK initiated cultivation of button mushroom under SHM project in a climate controlled chamber designed by KVK scientists. The cropping room was constructed with an inner lining with puff panel and provided air coolers to reduce and maintain the room temperature at 15 to 18°C. Two units with a capacity to accommodate 450 beds started cultivating button mushrooms with technical guidance of KVK in the district and could fetch good yield of above 750 kg per batch.

10.E. Give details of Indigenous Technical Knowledge 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	Scientific Rationale
1.	Black Pepper	Pepper harvesting device using pvc	Easy harvesting of pepper otherwise	Use of pvc pipe whose height can be
		pipe	left un harvested due to high labor cost.	adjusted accordingly

10 F. Technology Week celebration during 2019: NIL

Period of observing Technology Week: From to

Total number of farmers visited

Total nu

mber of agencies involved :

Number of demonstrations visited by the farmers within KVK campus:

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies			
Lectures organized			
Exhibition			
Film show			
Fair			
Farm Visit			
Diagnostic Practicals			
Supply of Literature (No.)			
Supply of Seed (q)			
Supply of Planting materials (No.)			
Bio Product supply (Kg)			
Bio Fertilizers (q)			
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited the technology week			

10 E. Recognition and Awards: Please give details about National and State level recognition and awards

Jose Kuttiyanikkal, a farmer from Thrissur district received recognition for participating in 107th Indian Science Congress held in Bangalore. He invented a pepper plucker using PVC pipe in which the height can be adjusted to pluck pepper from different heights. . KVK Thrissur supported the farmer for participation in the programme.

PART XI – SOIL AND WATER TEST

11.1Soil and Water Testing Laboratory

A.Status of establishment of Lab: Laboratory not yet established in KVK

1. Year of establishment:

2. List of equipments purchased with amount:

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

B. Details of samples analyzed since establishment of SWTL: NIL

Details	No. of Samplesanalyzed	No. of Farmers benefited	No. of Villages
Soil Samples			
Water Samples			
Plant samples			
Manure samples			
Others (specify)			
Total			

C. Details of samples analyzed during the 2019:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages
Soil Samples	30	30	3
Water Samples	Nil		
Plant samples	Nil		
Manure samples	Nil		
Others (specify)			
Total			

11.2 Mobile Soil Testing Kit: NIL

A. Date of purchase and current status

Mobile Kits	Date of purchase	Current status
1.		
2.		

B. Details of soil samples analyzed during 2019 and since establishment with Mobile Soil Testing Kit: NIL

_	Progress during 2019	Cumulative progress
Samplesanalyzed (No.)		
Farmers benefited (No.)		
Villages covered (No.)		

11.3 Details of soil health cards issuedbased on SWTL &Mobile Soil Testing Kitduring 2019: NIL

Particulars	Date (s)	Villages (No.)	Farmers (No.)	Samples analyzed (No.)	Soil health cards issued (No.)
SWTL					
Mobile Soil Testing Kit					

11.4 World Soil Health Day celebration

Sl. No.	Farmers	Soil health cards	VIPs (MP/	Other Public	Officials participate	Media coverage
	participated (No.)	issued (No.)	Minister/MLA	Representatives	(No.)	(No.)
			attended (No.)	participated		
1	25	-	-	-	-	-

PART XII. IMPACT

12.A. Impact of KVK activities (Not restricted for reporting period).

Name of specific technology/skill transferred	No. of	% of adoption	Change in income (Rs.)	
	participants		Before	After
			(Rs./Unit)	(Rs./Unit)
The ASCI training on Scientific training on gardening	20	30	15000/ month	35000/month
and nursery management				
The demo unit on Egger Nursery- Selling of 45 days old	800	45	16500/ month	20250/ month
chicks				

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

12.B. Cases of large scale adoption (Please furnish detailed information for each case with suitable photographs)

12.C. Details of impact analysis of KVK activities carried out during the reporting period:NIL

PART XIII - LINKAGES

13A. Functional linkage with different organizations

Name of organization	Nature of linkage
1. Dept. of Agriculture	Training, diagnostic visit, ATMA- Exhibitions
2. Nationalized Banks	Training, seminars.
3.Other developmental Departments	Participation in trainings & seminars
4. Soil and Water conservation department	Seminars. Farm trials, demonstrations
5. RATTC	Training
6. VFPCK	Joint trainings & seminars
8. Kudumbasree	Training, seminars, farm trials, demonstrations, Consultancy
9. Department of VHSE	Training & demonstrations
10. Ministry of Agriculture	Trainings
11. Department of Animal Husbandry	Animal health camp
12. District &Block Panchayath	Surveys, Training, seminars, exhibitions
13. Kerala State SC / ST Development Corporation	Training

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

13B. List of 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. in lakhs)
Commercial Mushroom cultivation	April2018	ATMA	1.45
Model Vegetable Demonstration Plot	May 2018	GoK	1.58
Crop Health Management Scheme 2017-18	April 2018	GoK	3.8
Strengthening Organic Manure Production Capacity of KVK	June 2018	Gok	5.0
Project Participatory Technology Development need based programmes for doubling farmer's income	April 2018	GoK	5.0
Onfarm trial of cassava biopesticide against borer pests of banana in Kerala	July 2018	CTCRI	1.0
Model Mushroom Production centre at KVK Thrissur	February 2019	SHM, Kerala	18.50
Establishment of high density fruit orchard	September 2018	MGNREGS KVK	1.50
Establishment of Integrated Mushroom unit for production, value addition, marketing, composting and training	December 2019	GoK	2.00
Participatory Egger nursery production programme	December 2019	GoK	2.00
Mass production of bio pesticides	October 2019	Gok	2.00
Strengthening organic manure production capacity of KVK Thrissur	October 2019	GoK	1.2

13C. Details of linkage with ATMA

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	MTA meeting, Management committee meeting, Governing board meeting, Project meeting	5	2	
		DAESI Valedictory	3		100 participants
02	Research projects				
03	Training programmes	1.Crop health management trainings	5	5	
		2.SCPSC Training, Malampuzha block			
		3.Fruit and vegetable processing at Kodaserry Krishibhavan			
		4. Vegetable production and food processing- Vellangallor			

04	Demonstrations			
05	Extension Programmes			
	KisanMela			
	Technology Week			
	Exposure visit	1.40 Farmers of Adatkrishibhavan		
		2. 22 farmers of Perambra block		
	Exhibition			
	Soil health camps			
	Animal Health Campaigns			
	Others (Pl. specify)			
	Farmer scientist interface	60 farmers participated		
06	Publications			
	Video Films			
	Books			
	Extension Literature			
	Pamphlets			
	Others (Pl. specify)			
07	Other Activities (Pl.specify)			
	Watershed approach			
	Integrated Farm			
	Development			
	Agri-preneurs development			

13D. Give details of programmes implemented under National Horticultural Mission :NIL

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

13E. Nature of linkage with National Fisheries Development Board :NIL

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

13F. Details of linkage with RKVY: NIL

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

13G. Kisan Mobile Advisory Services:

Month	Message		•	SMS/voice	calls sent (No.	.)	•	Total	Farmers benefitted (No.)
	type (Text/Voice)	Crop	Livestock	Weather	Marketing	Awareness	Other enterprises	SMS/Voice calls sent (No.)	
January		13	70				15		98
February		11	65				114		190
March		10	78				77		165
April		12	75				145		232
May		11	80				52		143
June		13	75				20		108
July		30	70				40		140
August		24	5				15		44
September		68	4				30		102
October		40	5				28		73
November		15	4				88		107
December		14	4				35		53
Total		261	535				659		1455

PART XIV- PERFORMANCE OF INFRASTRUCTURE IN KVK

14A.Performance of demonstration units (other than instructional farm)

GL M	D 11.1.	Year of A	Area	Details of production			Amoun		
Sl. No.	Demo Unit	establishment	(ha)	Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks

14B. Performance of instructional farm (Crops) including seed production

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

14-15/11/2018	16-23/04/2019	0.1	Lola	Seed	0.44	4500.00	87000.00	
05-07/12/2018	09-17/05/2019	0.16	Anaswara	Seed	0.45	2800.00	44850.00	
12-14/12/2018	24-30/05/2019	0.2	Kanakmony	Seed	0.91	2000.00	27360.00	
24/10/2018	12-15/02/2019	0.12		Seed	0.22	2500.00	5500.00	
	_							
n crops				<u>-</u>				
							<u> </u>	
							<u> </u>	
16-19/08/2018	19-24/11/2019	0.5	Preethi	Seed	1.3	13000.00	306625.00	
12/11/2018	15-20/042019	0.1	Manusree	Seed	0.31	3200.00	77750.00	
13-17/12/2018	23-26/03/2019	0.1	Arun	Seed	0.09	2500.00	17150.00	
10-13/10/2018	17-21/01/2019	0.12	Varsha Upahar	Seed	0.21	3200.00	30675.00	
•		•	· ·					
	05-07/12/2018 12-14/12/2018 24/10/2018 16-19/08/2018 12/11/2018 13-17/12/2018	05-07/12/2018 09-17/05/2019 12-14/12/2018 24-30/05/2019 24/10/2018 12-15/02/2019 n crops 16-19/08/2018 19-24/11/2019 12/11/2018 15-20/042019 13-17/12/2018 23-26/03/2019	05-07/12/2018 09-17/05/2019 0.16 12-14/12/2018 24-30/05/2019 0.2 24/10/2018 12-15/02/2019 0.12 n crops 16-19/08/2018 19-24/11/2019 0.5 12/11/2018 15-20/042019 0.1 13-17/12/2018 23-26/03/2019 0.1	05-07/12/2018 09-17/05/2019 0.16 Anaswara 12-14/12/2018 24-30/05/2019 0.2 Kanakmony 24/10/2018 12-15/02/2019 0.12	05-07/12/2018 09-17/05/2019 0.16 Anaswara Seed 12-14/12/2018 24-30/05/2019 0.2 Kanakmony Seed 24/10/2018 12-15/02/2019 0.12 Seed	05-07/12/2018 09-17/05/2019 0.16 Anaswara Seed 0.45 12-14/12/2018 24-30/05/2019 0.2 Kanakmony Seed 0.91 24/10/2018 12-15/02/2019 0.12 Seed 0.22 n crops	05-07/12/2018 09-17/05/2019 0.16 Anaswara Seed 0.45 2800.00 12-14/12/2018 24-30/05/2019 0.2 Kanakmony Seed 0.91 2000.00 24/10/2018 12-15/02/2019 0.12 Seed 0.22 2500.00 16-19/08/2018 19-24/11/2019 0.5 Preethi Seed 1.3 13000.00 12/11/2018 15-20/042019 0.1 Manusree Seed 0.31 3200.00 13-17/12/2018 23-26/03/2019 0.1 Arun Seed 0.21 3200.00 10-13/10/2018 17-21/01/2019 0.12 Varsha Seed 0.21 3200.00	05-07/12/2018 09-17/05/2019 0.16 Anaswara Seed 0.45 2800.00 44850.00 12-14/12/2018 24-30/05/2019 0.2 Kanakmony Seed 0.91 2000.00 27360.00 24/10/2018 12-15/02/2019 0.12 Seed 0.22 2500.00 5500.00

14C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl.	N. C.I. D. I.		Amoun	nt (Rs.)	Pomerks
No.	Name of the Product	Qty	Cost of inputs	Gross income	Remarks
1	Pheromone Trap Mango	652 nos	46944.00	65200.00	
2	Pheromone Trap Vegetable	509 nos	63625.00	76350.00	
3	Mushroom Spawn	4462 packets	122705.00	178480.00	
4	Mother Spawn	9 nos	275.00	1800.00	
5	Nanma	566 L	268850.00	316960.00	
6	Menma	141.5 L	990500.00	111077.50	
7	Shreya	450.8 L	175812.00	225400.00	
8	Ayar	97.81 q	283649.00	489050.00	
9	Sampoorna Vegetable	5.29 q	71417.00	309580.00	
10	Sampoorna Banana	2.64 q	35640.00	121670.00	
11	Sampoorna Paddy	13.46 q	181710.00	60605.00	

14D. Performance of instructional farm (livestock and fisheries production)

Sl.	Name	D	etails of production	,	Amou	nt (Rs.)	
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1	Chick	BV 380	45 days old	15238 nos	1478086.00	2285700.00	
2	Cilick	Gramasree	45 day old	4084 nos	318552.00	408400.00	
3	Duck	Vigova	45 day old	1287 nos	126126.00	172050.00	
4	Goat	Malabari	-	4 nos	-	33950.00	

14E. Utilization of hostel facilities

Accommodation available (No. of beds): 20

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January	18	2	
February	25	2	
March	-	-	
April	-	-	
May	-	-	
June	-	-	
July	30	2	
August	30	2	
September	30	2	
October	35	2	
November	56	4	
December	30	2	

14F. Database management

S.No	Database target	Database created	
1	180 Farmer details from DFI villages	140 farmer details from DFI villages	
		created	

14G. Details on Rain Water Harvesting Structure and micro-irrigation system- Nil

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

PART XV -SPECIAL PROGRAMMES

15.1 ParamparagathKrishiVikasYojana (PKVY)

	ParamparagathKrishiV											
Sl	Name of cluster village	Initial soi				Facilities	Name of	Variety	Organic inputs	Yield	Economics	
No.				er village)		created for	Crops		applied	(q/ha)		
		Aval. N	Aval.	Aval. K	OC	organic	cultivated		including bio-		Cost of	Net
			P		%	source of			agents and		cultivation	returns
						manure			botanicals		(Rs/ha)	(Rs/ha)
									treatment			
1	 Thiruvilwamala 	Medium	High	medium	1.07	1.	Rice,	Sreyas	1.Application of	On- goi	ng	
						Vermicompost	Banana	Nendran	neem cake and			
						2. Production	and		vermicompost			
						of Fish amino	Vegetables	Brinjal,	as major source			
						acid		Bhindi,	of manures			
						3. Production		Cucumber,	2.Jeevamrutham			
						of		Ashgourd	as a growth			
						Trichoderma,			booster			
						neem cake,			3.Fish amino			
						cow dung			acid as pest			
						mixture			repellent and			
						4.Production			growth			
						of			stimulant			
						jeevamrutham			4.Trichocards			
						5. Trichocard			for the control			
						installation			of borers			
						6. Application			5.Application of			
						of			caasava leaf			
						Pseudomnas			extracts Nanma			
									and sreya for			
									sucking pest			
									control			
									6. Trichoderma			
									enriched cow			
									dung for disease			
									control			
									7.			
									Pseudomonas			
									spray			
	2.											
	3.											
	4.											
<u> </u>	5.											
2	1.											

2.						
3.						
4.						
5						

15.2 District Agriculture Meteorological Unit (DAMU):NIL

	Agro advisories	. ,		Farmers awareness programmes			
Sl No.	No of Agro advisories generated	No of farmers registered for agro advisories	No of farmers benefitted	No of programmes	No of farmers benefitted		
1							
2							
3							
4							

15.3 Fertilizer awareness programme 2019

State	Name of KVK	Details of Activities/programmeOrganised	Number of Chief Guests	No. of Farmers attended program	Total participants
Kerala	Thrissur	Seminar was organized on, New fertilizers and fertilizer application methods	4	155	159

15.4Seed Hub: NIL

Crops	Variety	Year of release		Production						
		release	Target (q)	Area (ha.)	Actual Production (q)	Category (FS/CS)				

15.5CFLD on Oilseed: NIL

15.6 CFLD on Pulses: Ongoing: Black gram Vamban 8 in 10 ha and cow pea DC-15 in 10 ha.

15.7 Krishi Kalyan Abhiyan: NIL

Type of Activity	Date(s) conducted	No.	of farmers (Gene	eral)		No. of farmers SC / ST		No.o	f extension perso	onnel
Type of Activity	Date(s) conducted	Male	Female	Total	Male	Female	Total	Male	Female	Total

15.8 Micro-Irrigation

Type of Activity	Date(s) conducted	No. of farmers (General)			No. of farmers SC / ST			No.o	No.of extension personnel		
Type of Activity	Date(s) conducted	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Training	10.11.2019 and 23.11.2019	72	28	100	2	1	3	-	-	-	

15.9 Nutrition garden

Type of Activity	Date(s) conducted	No	of farmers (Gen	eral)	No. of farmers SC / ST			No.o	No.of extension personnel		
Type of Activity	Date(s) conducted	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Training	14.12.2019	2	16	18	3	4	7				
Plot visits and data collection	28.12.2019	2	16	18	3	4	7				

PART XVI - FINANCIAL PERFORMANCE

16A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch	Account Name	Account Number	MICR	IFSC
			code			Number	Number
With Host Institute							
With KVK	State Bank of India	Ollukkara	70210	Associate Professor, KVK, Thrissur	57036555642	680002908	SBIN0070210
	State Bank of India	Ollukkara	70210	Associate Professor, KVK, Thrissur	57036603154	680002908	SBIN0070210
	Kerala State Treasury	Thrissur Additional Sub Treasury	1303	KrishiVigyan Kendra, Thrissur	799011400003427	-	-
	Kerala State Treasury	Thrissur Additional Sub Treasury	1303	KrishiVigyan Kendra, Thrissur	799012700001815	-	-

16B. Utilization of KVK funds during the year 2018-19(Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Rec	curring Contingencies			
1	Pay & Allowances	105.08	105.08	105.08
3	Traveling allowances	1.35	1.35	1.35
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on			
	office running, publication of Newsletter and library			
	maintenance (Purchase of News Paper & Magazines)	3.10	3.10	3.10
В	POL, repair of vehicles, tractor and equipments	1.50	1.50	1.50
C	Meals/refreshment for trainees (ceiling upto			
	Rs.40/day/trainee be maintained)	1.07	1.07	1.07
D	Training material (posters, charts, demonstration material			
	including chemicals etc. required for conducting the			
	training)	0.50	0.50	0.50
\boldsymbol{E}	Frontline demonstration except oilseeds and pulses			
	(minimum of 30 demonstration in a year)	4.12	4.12	4.12
F	On farm testing (on need based, location specific and			
	newly generated information in the major production			
	systems of the area)	0.47	0.47	0
G	Training of extension functionaries	0.25	0.25	0.25
Н	Maintenance of buildings	0.56	0.56	0.56
I	Establishment of Soil, Plant & Water Testing Laboratory	0.25	0.25	0.25
J	Library	0.08	0.08	0.08
k	Extension activities	0.50	0.50	0.50
	TOTAL (A)	119.28	119.28	119.28
B. Nor	n-Recurring Contingencies			
1	Works			
2	Equipment including SWTL & Furniture Photocopier			
3	Vehicle (Four wheeler/Two wheeler, please specify)	1.00	1.00	1.00
4	Library (Purchase of assets like books & journals)			
TOTA	` '	1.00	1.00	1.00
C. RE	VOLVING FUND			
GRAN	ND TOTAL (A+B+C)	120.28	120.28	120.28

Utilization of KVK funds during the year 2019-20, up to December 31st (Rs. in lakh)

S.	ation of KVK funds during the year 2019-20, up to D	,		
No.	Particulars	Sanctioned	Released	Expenditure
	curring Contingencies	<u> </u>		
1	Pay & Allowances	127.00	10.59	72.88
3	Traveling allowances	1.00		0.62
3	Contingencies	•		1
A	Stationery, telephone, postage and other expenditure on			
	office running, publication of Newsletter and library			
	maintenance (Purchase of News Paper & Magazines)	2.00	7.57	1.74
В	POL, repair of vehicles, tractor and equipments	1.50		0.99
C	Meals/refreshment for trainees (ceiling upto			
	Rs.40/day/trainee be maintained)	1.00		0.99
D	Training material (posters, charts, demonstration material			
	including chemicals etc. required for conducting the			
	training)	0.50		0.40
\boldsymbol{E}	Frontline demonstration except oilseeds and pulses			
	(minimum of 30 demonstration in a year)	2.52		1.62
F	On farm testing (on need based, location specific and			
	newly generated information in the major production			
	systems of the area)	0.19		0.17
G	Training of extension functionaries	0.25		0.07
	EDP	0.30		0.27
	Soil & water testing	0.25		0.15
	Nutri garden	0.25		0.15
Н	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library	0.08		0.04
k	Extension activities			0.24
	TOTAL (A)	137.09		
B. Noi	n-Recurring Contingencies			
1	Works			
2	Equipment including SWTL & Furniture Photocopier			
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTA	· /	0		
	VOLVING FUND	0		
GRAN	ND TOTAL (A+B+C)	137.09		80.09

16C. Status of revolving fund (Rs. in lakh) for the last three years

Year	Opening balance as on 1st	Income during the year	Expenditure during the	Net balance in hand as on 1st April	
	April		year	of each year	
April 2016 to March 2017	631152	2036212	2017301	650063.00	
April 2017 to March 2018	650063	3221234	3228288.50	643008.50	
April 2018 to March 2019	643008.50	4967746	4695655.50	915099.00	
April 2019 to December 2019	915099.00	3862709 (12.00 invoices pending)	4477316.75	299166.25 Fixed deposit - 1131764	

17. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. Deepa James	Asst. Professor, Plant Pathology	Five day training programme on "Pesticide Application Techniques and Safety Measures"	NIPHM, Hyderabad	01.04.19 to 05.04.19
Dr. Suma Nair	Asst. Professor, Agrl. Engineering	Training Programme on "Geospatial Technologies"	Dept. of Architecture, NIT, Calicut	10.06.19 to 30 .06.19
Smt. Shameena S	Asst. Professor, Horticulture	Training on Plant propogation methods Budding grafting and layering	Communication Centre, Mannuthy	17.07.2019
Dr.Suma Nair	Asst. Professor, Agrl. Engineering	Orientation Training Programme for new recruits at KVK	ICAR-KVK Mysuru	16.09.2019-20.092019
Smt. Arathy Balakrishnan	Asst. Professor, Agrl. Extension	Orientation Training Programme for new recruits at KVK	ICAR-KVK, Mysuru	16.09.2019-20.092019
Dr. Deepa James	Asst. Professor, Plant Pathology	Orientation Training Programme for new recruits at KVK	ICAR-KVK Kasargod	23.09.2019 -27.09.2019
Smt. Shameena S	Asst. Professor, Horticulture	Orientation Training Programme for new recruits at KVK	ICAR-KVK Kasargod	23.09.2019 -27.09.2019
Smt. Arathy Balakrishnan	Asst. Professor, Agrl. Extension	Winter school on 'Agricultural Education and Skill Development'	UAS, Dharwad.	06.11.2019 - 26.11.2019
Smt. Shameena S	Asst. Professor, Horticulture	ICAR- CTCRI &MANAGE training on "Innovative Extension Approaches for Horticultural crops with special reference to Tuber crops"	ICAR- CTCRI, Trivandrum	19.11.2019 to 22.11.2019
Smt. Arathy Balakrishnan,	Asst, Professor, Agrl. Extension	International conference on "Extension for Strengthening Agricultural Research"	ICAR-KVK, Mysuru	14/12/2019 to 16/12/2019

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