

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

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

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

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	Farm Officer	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.Infrastructure Development:

A) Buildings

Sl. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			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 Mushroom 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
Microwaveoven	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 Soil Testing Kit	2017	0.86	Not Working
Cleaner cum grader	2018	0.72	Good
Specific gravity separator	2018	0.88	Good
Multi Crop thresher-Tractor operated	2018	1.68	Good
Wire loop type multi crop thresher	2018	0.45	Good
Weighing machines	2018	0.20	Good
Continuous sealing 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	<ul style="list-style-type: none"> Strengthening of SAC of KVK by including various stakeholders including members from VFPC, 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 Kudumbasree Mission and provide necessary technical support in their activities in the form of trainings and other 	<p>The participation of different stakeholders will be ensured from next meeting onwards</p> <p>Included recommendations in the action plan of 2019-20</p> <p>Conducted farmer scientist interfaces bimonthly in different blocks of district in collaboration with DoA</p> <p>Included FLD for urban agriculture</p> <p>Conducted FLD on management of weedy rice in Kule lands</p> <p>Conducted 7 trainings of 1 to 3 days duration for Kudumbasree members</p>	Nil

		<p>follow -up activities, especially in areas such as value addition, mushroom cultivation and integrated farming</p> <ul style="list-style-type: none"> • 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 for the farmers 	<p>In the trainings on vegetable cultivation, information on the availability of vegetable seeds at NBPGR has been given</p> <p>Included sessions in the training programmes</p>	
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PART II - DETAILS OF DISTRICT

2.1 Major 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) 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 special reference to <i>kole</i>	Lies between 25'(7.62m) and 250'(76.2m) above MSL with banana, areca nut, rice, coconut, vegetables, livestock etc. as the major farming enterprises.
	(AES) II <i>Malayoram</i> (Highland)	Lies between 25'(7.62m) and 250'(76.2m) above MSL with plantation crops, spices, livestock etc. as the major farming enterprises.
B	(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 Thalappilly Taluk
2.	Sandy Loam	These soils are of marine origin with high water table seen along coastal plains.	Parts of Malappuram, Thrissur and Chavakkad Taluk
3.	Clayey soil	These soils are poorly aerated and ill drained with medium fertility status and high water holding capacity.	Back water area of Chavakkad and Mukundapuram Taluk
4.	Alluvial soil	These soils occur 20m below MSL. These are frequently flooded and submerged.	Portion of Chavakkad Taluk

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 (<i>Virippu</i>)	1865.31	4217.1	2261
2	Paddy (<i>Mundakan</i>)	13890.8	41509	2988
3	Paddy (<i>Puncha</i>)	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)	Temperature ° 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
May 2019	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
<i>Indigenous</i>	16128	8.5 lakh MT	2.55 l/day
Buffalo	1,21,455	4,33,652 Lt./day	3.57 Lt./day
Sheep			
Crossbred			
<i>Indigenous</i>	161		
Goats	1,25,783	14,25,090 kg Meat /year	11.33kg/animal
Pigs			
Crossbred	8441		
<i>Indigenous</i>	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			
<i>Desi</i>	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			
<i>Marine</i>			
<i>Inland</i>			
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
2	Thrissur	Ollukkara	Ollukkara Nadathara Puthur Mannamangalam Thrissur urban	1-5	Coconut	1.Low productivity 2.Micronutrient deficiency 3. Rhinoceros 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	1. Integrated Nutrient management 2.Farm Mechanization
					Vegetables	1. Lack of awareness about newly released varieties	1.Popularization of new varieties
					Diary	1.Summer heat stress in animals	1.Nutrition and feeding management
					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					

	Chalakkudy	Kodakara	Amballor Chalakkudy Varakkara Pariyaram Kodaserry	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
					Nutmeg	1.Leaf fall and fruit rot	1.Integrated pest and disease management
					Turmeric	1.Lack awareness on improved varieties	1.Popularization of new high yielding varieties
					Ragi	1.Lack awareness on improved varieties	1. 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
4.	Thalappilly	Pazhayannur	Pazhayannur, Wadakkancherry Chelakkara, Thiruvilwamala, Panjal	4-6	Vegetables	1.Pest and disease infestation	1.Integrated pest and disease management
					Banana	1.Micronutrient deficiency 2. Pest and disease infestation	1. Integrated Nutrient management 2.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 Poullose	153000	108000	45000
32	Thrissur	Chalakudy	Kodasserry	V.I. Jose	558000	525000	33000
33	Thrissur	Chalakudy	Kodasserry	K.A Poullose	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 Poullose	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 Poullose	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 Poullose	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

OFT				FLD			
1				2			
OFTs (No.)		Farmers (No.)		FLDs (No.)		Farmers (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	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	Achievement	Target	Achievement	Target	Achievement
198	111	5450	4018	1709	1886	6525	315692

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

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

3.B1. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions												
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products			
1.	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 <i>kole</i> 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

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	-	-	-	-	-
24	Nutrition and feeding management in animals	Dairy	Fodder shortage		<i>Moringa oleifera</i> 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 <i>kole</i> lands	2	1	-	1	-	-	800 nos, ducks		-

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No.of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	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 moringa- 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	<i>Moringa oleifera</i> 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				FLD				Training				Others (Field programs)			
	General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
1.	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.	-	-	-	-	5	5	-	-	20	-			15	17		
10.	-	-	-	-	5	-	-	-	10	-			12	3		5
11.	-	-	-	-	5				8				7		1	
12.	-	-	-	-	5				4				9	4	3	
13.	-	-	-	-	5								8	7	3	
14.	-	-	-	-	5	-	-	-	10	-			23	12		3

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					

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					

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 Vellayani/Tejas&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

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									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% <i>Pseudomonas fluorescens</i> follo wed by fortnightly foliar spray with 2% <i>P. fluorescens</i> in 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 applicator	0.6	0.6		5	5	
4	Rice	Low land	Dec-march	Rice	Uma	-	Integrated nutrient management	Soil test based nutrient application	0.6	0.8		5	5	
5	Rice	Lowland	November- December to February - March	Rice	Uma		Farm mechanisation	KAU power operated pre germinated paddy wet seeder	2	2		4	3	1
6	Millets	Upland	Nov-feb	Ragi	GPU -28		Popularization of new varieties	GPU- 28	0.4	0.4	1	9	10	
7	Vegetables	Vertical garden	January-march	Leafy vegetables	Local		Urban horticulture	Demonstration of vertical kitchen garden	5 units	5		5	5	

								for spicy leaves						
8	Vegetables	Vegetable garden	January – March	Assorted vegetables			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 <i>Trichoderma viride</i> 2% thrice at fortnightly intervals	0.1	0.1		5	5	
	Flowers													
	Ornamental													
	Fruit													
10	Banana	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 disease	1.0	1.0		5	5	
11	Banana	Irrigated	March-Nov & Oct-June	Banana	Nendran	-	integrated nutrient management	Demonstration of Ayar micro nutrient mix in Banana: Soil application of 100 g/m ² 2 months after planting and 100 gram after 4 months after planting	0.2	0.2		5	5	
12	Banana	Irrigated	September – October to May-June	Banana	Nendran	-	Farm mechanization	KAU Banana bunch covering device	500	500		5	5	
13	Spices and condiments	Open cultivation	June-january	Turmeric	IISR Pragathy		Popularization 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	

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													
	Mussels													
	Ornamental fishes													
	Oyster mushroom													
	Button mushroom													
	Vermicompost													
	Sericulture													
	Apiculture													
	Implements													
	Others (specify)													
25	Nutrition garden	Uplands	Dec - Mar	Vegetables and local fruits	-	-	Enhancing nutritional security of farm households	Nutritional garden for correctional and welfare institutions	0.6	0.5	-	5 institutions		

* 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.)

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

5.B.3. Fisheries:Nil

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m ²)	Name of the parameter with unit	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./unit)			*Economics of check (Rs./unit)						
						Demo				Check if any	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR			
H	L	A																	
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.

** BCR= GROSS RETURN/GROSS COST

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

5.B.4. Other enterprises

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m ² }	Name of the parameter with unit	Yield			% Increase	*Economics of demonstration (Rs./unit) or (Rs./m ²)			*Economics of check (Rs./unit) or (Rs./m ²)			
						Demo				Check if any	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						H	L	A								
Oyster mushroom																
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
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.)

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

5.B.5. Farm implements and machinery

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Name of the operation with unit	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)		
						Demo	Check			Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR

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

** BCR= GROSS RETURN/GROSS COST

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

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

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	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 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

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)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	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										
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

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 Breeding Coimbatore

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Commercial floriculture	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

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		
		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						
KisanGhoshi	4									
Exhibition including pooram and VAIGA	8	73005	81135	154140						
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		
		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 Programme	11.09.2019	10	3	13				4		
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)						
Oilseeds	Sesamum			0.22	5500.00	
Pulses	Cowpea	Lola		0.44	87000.00	
	Cowpea	Anaswara		0.45	44850.00	
	Cowpea	Kanakamony		0.91	11460.00	
Commercial crops						
Vegetables	Bittergourd	Preethi		1.13	306625.00	
	Snakegourd	Manusree		0.31	27750.00	
	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	
	Drumstick Seedlings	PKM 1		1023	15345.00	
	Curry Leaf Seedlings			70	1050.00	
	Chaya manasa			51	1530.00	
Fruits	Papaya		Red Lady	813	24390.00	
	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

Bio Products	Name of the bio-product	Quantity (q)	Value (Rs.)	Number of farmers to 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				
Bio Agents	Pheromone Trap Mango (nos)	652	65200.00	
	Pheromone Trap Vegetable (nos)	509	76350.00	
	Mushroom Spawn (packets)	4462	178480.00	
	Mother Spawn (Nos)	9	1800.00	
Others (specify)	Tobacco Decoction Kit	161	8050.00	
	Fish Amino Acid (L)	5.6	2240.00	
	Jeeva (q)	1.31	2620.00	
	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				
Layers	BV 380	15238	228700.00	
	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	Title	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 Thrissur farmers	Krishijagaran	Akhil T. Thomas
4	Extension literature	1.Integrated crop management in banana	KAU	Akhil T. Thomas and Lizz J Mampally
		2.Integrated pest management in vegetables		Lizz J Mampally
		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	
	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 advised 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.

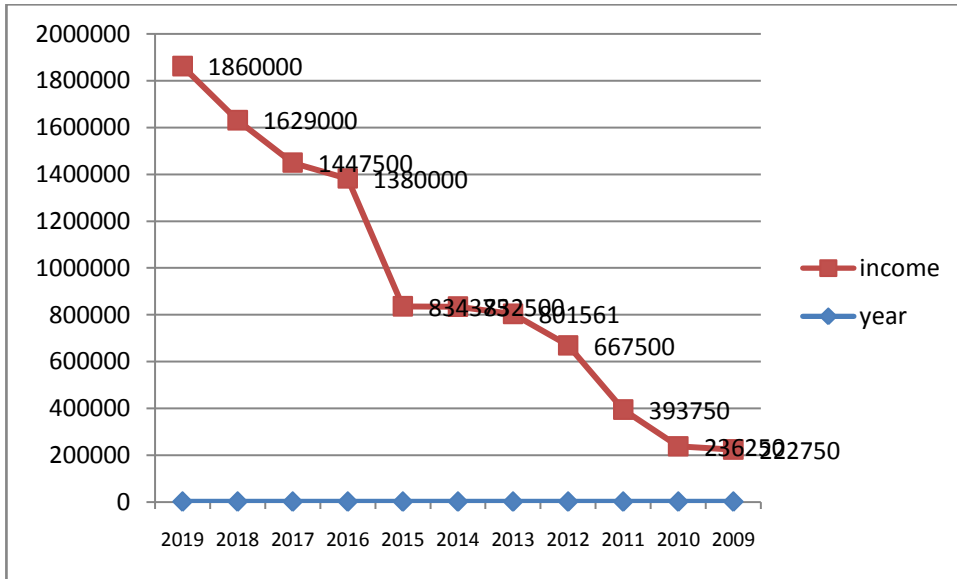
Process: Currently she cultivates 500 beds of milky mushroom and 1000 beds of oyster mushroom per batch. The average yield from one milky mushroom bed is 2.5 kg and that of oyster mushroom is 1.5 kg. She sells the fresh mushroom to a whole sale dealer at the rate of Rs 200/kg for milky mushroom and Rs.180/kg 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 Project at 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 17 groups (68 farmers) 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 pipe	Easy harvesting of pepper otherwise left unharvested due to high labor cost.	Use of pvc pipe whose height can be 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 Kuttianikkal, 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**11.1 Soil 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 Samples analyzed	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
Samples analyzed (No.)		
Farmers benefited (No.)		
Villages covered (No.)		

11.3 Details of soil health cards issued based on SWTL & Mobile Soil Testing Kit during 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 participated (No.)	Soil health cards issued (No.)	VIPs (MP/Minister/MLA attended (No.))	Other Public Representatives participated	Officials participate (No.)	Media coverage (No.)
1	25	-	-	-	-	-

PART XII. IMPACT**12.A. Impact of KVK activities (Not restricted for reporting period).**

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

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. VFPC	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

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

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	April 2018	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 Kodeserry 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

Pulses									
Cowpea	14-15/11/2018	16-23/04/2019	0.1	Lola	Seed	0.44	4500.00	87000.00	
Cowpea	05-07/12/2018	09-17/05/2019	0.16	Anaswara	Seed	0.45	2800.00	44850.00	
Cowpea	12-14/12/2018	24-30/05/2019	0.2	Kanakmony	Seed	0.91	2000.00	27360.00	
Oilseeds									
Sesamum	24/10/2018	12-15/02/2019	0.12		Seed	0.22	2500.00	5500.00	
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Bittergourd	16-19/08/2018	19-24/11/2019	0.5	Preethi	Seed	1.3	13000.00	306625.00	
Snakegourd	12/11/2018	15-20/04/2019	0.1	Manusree	Seed	0.31	3200.00	77750.00	
Amaranthus	13-17/12/2018	23-26/03/2019	0.1	Arun	Seed	0.09	2500.00	17150.00	
Bhindi	10-13/10/2018	17-21/01/2019	0.12	Varsha Upahar	Seed	0.21	3200.00	30675.00	
Others (specify)									

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	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	

2.												
3.												
4.												
5.												

15.2 District Agriculture Meteorological Unit (DAMU):NIL

Agro advisories				Farmers awareness programmes	
SI 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/programme Organised	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

15.4 Seed Hub: NIL

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

15.5 CFLD 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 (General)			No. of farmers SC / ST			No. of extension personnel		
		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. of extension personnel		
		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 (General)			No. of farmers SC / ST			No. of extension personnel		
		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 code	Account Name	Account Number	MICR Number	IFSC 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. Recurring 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
B	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
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
H	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. Non-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)			
TOTAL (B)		1.00	1.00	1.00
C. REVOLVING FUND				
GRAND 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. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	127.00	10.59	72.88
3	Traveling allowances	1.00		0.62
3	Contingencies			
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
B	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
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
	<i>EDP</i>	0.30		0.27
	<i>Soil & water testing</i>	0.25		0.15
	<i>Nutri garden</i>	0.25		0.15
H	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. Non-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)			
TOTAL (B)		0		
C. REVOLVING FUND		0		
GRAND 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 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April 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 propagation 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	16.09.2019-20.09-.2019
Smt. Arathy Balakrishnan	Asst. Professor, Agrl. Extension	Orientation Training Programme for new recruits at KVK	ICAR-KVK, Mysuru	16.09.2019-20.09-.2019
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)