ANNUAL REPORT 1996-'97



G 1077





KERALA
AGRICULTURAL
UNIVERSITY

ANNUAL REPORT 1996 - '97

March 1998

Copies: 300

Compiled and Edited by:

Publication Unit Directorate of Extension Kerala Agricultural University

· •

Published by:

Dr. K. Rajamohanan Director of Extension Kerala Agricultural University Mannuthy-680 651, Thrissur, Kerala

Printed at:

Kerala Agricultural University Press, Mannuthy-680 651 Thrissur, Kerala

CONTENTS

				Page
GE	NERA	L R	EPORT	1
Ch	apter	Ĭ.		
	GENE	ERA	L ADMINISTRATION	24
Ch	apter	II	• .	
•	EDUC	CAT	TION AND RESEARCH	
1.	Facul	ty c	of Agriculture	
	1.1	C	ollege of Agriculture, Vellayani	35
	1.2	C	ollege of Horticulture, Vellanikkara	39
	1.3	C	ollege of Agriculture, Nileshwar	47
	1.4	C	ollege of Forestry, Vellanikkara	48
	1.5		ollege of Co-operation and Banking,	
		M	lannuthy ,	48
	1.5.1	Sc	outhern Zone	51
	•	i)	Regional Agricultural Research Station, Vellayani	51
		ii)	Cropping Systems Research Centre, Karamana	59
		iii)	Coconut Research Station, Balaramapuram	61
	:	i v)	Farming Systems Research Station, Kottarakkara	63
	1.5.2	Sp	pecial Zone of problem areas	66
		i)	Regional Agricultural Research Station, Kumarakom	67
		ii)	Rice Research Station, Moncompu	70
	;	iii)	Rice Research Station, Kayamkulam	72
		iv)	Rice Research Station, Vyttila	75
		v)	Sugarcane Research Station, Thiruvalla	77
	7	vi)	All India Co-ordinated Research Project on Agricultural Drainage, Karumady	79
	v	(ii)		82

			Page
1.5.3	Се	ntral Zone	83
	i)	Regional Agricultural Research Station,	
		Pattambi Cachara Bassach Station Bushbassan	84
	•	Cashew Research Station, Anakkayam	91
	•	Agricultural Research Station, Mannuthy	92
	- /	Cashew Research Station, Madakkathara	. 96
,	v)	Banana Research Station, Kannara and Pineapple Research Centre, Vellanikkara	98
v	7i)	Agronomic Research Station, Chalakudy	101
v	ii)	Aromatic and Medicinal Plants Research Station, Odakkali	105
1.5.4	No	rthern Zone	107
	i)	Regional Agricultural Research Station, Pilicode	. 107
:	ii)	Pepper Research Station, Panniyur	111
1.5.5	Hic	ph Range Zone	113
	i)	Regional Agricultural Research Station,	
	•	Ambalavayal	114
	ii)	Cardamom Research Station, Pampadumpara	119
1.5.6	Ke	rala Horticultural Development Programme	122
Facult _i 2.1	•	f Veterinary and Animal Sciences bliege of Veterinary and Animal Sciences	
		nnuthy	126
2.2	Po	ultry and Duck Farm, Mannuthy	137
2.3	Ųn	iversity Pig Breeding Farm, Mannuthy	138
2.4	Се	ntre of Advanced Studies in Poultry Science	139
2.5	Се	ntre of Excellence in Pathology	140
2.6	Ve	terinary College Hospital, Mannuthy	141
2.7	Liv	vestock Research Station, Thiruvazhamkunnu	142
2.8	Ca	ttle Breeding Farm, Thumburmuzhi	144
2.9		ttle Infertility Scheme, Vellimadukunnu, zhikode	145
2.10	Un	iversity Veterinary Hospital, Kokkalai	146
2.11	Un	iversity Livestock Farm & Fodder research I development scheme, Mannuthy	147

		Page
,	3. Faculty of Fisheries	
	3.1 College of Fisheries, Panangad	149
	3.2 Fisheries Station, Puduveypu	152
,	4. Faculty of Agricultural Engineering & Technology	
	4.1 Kelappaji College of Agricultural Engineering and Technology, Tavanur	155
ı	5. KAU School, Vellanikkara	159
	Chapter III	
	EXTENSION	162
	Chapter IV	
	DIRECTORATE OF STUDENTS WELFARE	198
	Chapter V	
	ENGINEERING WING	199
Í	Chapter VI	
	KAU ESTATE AND CAMPUS DEVELOPMENT,	
	VELLANIKKARA	200
	Chapter VII	
	FINANCE AND ACCOUNTS	202
i	APPENDICES	
	I — Members of the Statutory Authorities	203
	II - Sub Committees of Executive Committee	213
	III — List of Staff at Headquarters	219
	IV — List of Staff in Various Campuses	2 32
	 V — List of Publications/Radio talks/ T. V. Programmes attended 	291
	VI — Research Schemes operated under Directorate of Research as on 31-3-97	318
	VII — Details of works executed during the year 1996-'97	345

General Report

The Executive Committee of Kerala Agricultural University presents to the General Council its Annual Administration for the report year 1996-97 (1-4-1996 to 31-3-1997)

The Report pertains to the General Administration, Education, Research, Extension, Works, Students Welfare, Estate, Finance and Accounts. The list of members of the Statutory authorities, Sub Committees, staff at the Headquarters and in various campuses, Publications, Projects financed by outside agencies, details of works executed etc. are appended.

Officers of the University

Vice-Chancellor	Dr. A. M. Michael	Throughout the period
Registrar (Sri, Anirudkumar Dharni, IFS.	.7, ,,
Comptroller	Smt. V. S. Bhanumathy Ammal	11
Director of Research	Dr.'N. Mohanakumaran	,
Director of Extension	Dr. E. Tajudin Dr. K. Rajmohanan i/c	upto 9-8-96 from 12-8-96 onwards
Director of Physical Plant-	Sri. P. O. Thomas	Throughout the period
Dean, Agriculture	Dr. C. Sreedharan	11
Dean, Veterinary	Dr. A. Rajan	11
Dean, Agrl. Engg.	Dr. K. John Thomas	
Dean, Fisheries	Dr. D. Manikantan Thampi Professor i/c of Dean	11 (1) (1) (1) (1) (1) (1) (1) (1) (1) (
் பிறுector of Students Welfare	Dr. T. G. Rajagopalan ' . Professor i/c of DSW	'upto 30-11-96
	Dr. U. Mohammed kunju	from 1-12-96

Associate Dean (Hort.)	Dr. A. I. Jose,	Throughout the period
Associate Dean, Co-operation, Banking and Management	Dr. M. Mohandas, Assoc. Professor i/c of Associate Dean	"
Associate Dean,	Dr. A. I. Jose,	**
College of Forestry	Associate Dean, i/c College of Horticulture	18
Associate Dean, College of Agriculture Nileswar	Dr. P. Abdul Wahid, Associate Dean,	D
Librarian	Sri. R. Raman Nair	
Director (Acad & PG Studies)	Dr. U. Mohammed Kunju	

EDUCATION

The following eight educational institutions functioned under the University during the period. Various courses offered in these institutions are given below.

	-		
Name of college	Course offered		
College of Agriculture Vellayani	B.sc. (Ag), M.Sc. (Ag), M.Sc. (Hort) and Ph. D., M.Sc. (Home Science) (FS & N)		
College of Horticulture Vellanikkara	B. Sc. (Ag), M. Sc. (Ag), M. Sc. (Hort) and Ph. D., M. Sc. (Home Science) (FS & N), M. Sc. (Ag. Stat).		
College of Agriculture, Nileswar	B. Sc. (Ag)		
College of Veterinary & Animal Sciences, Mannuthy College of Fisheries, Panangad	B. V. Sc. & A. H., M. V. Sc. and Ph. D B. F. Sc. and M. F. Sc.		
Kelappaji College of Agrl. Engineering and Technology, Tavanur	B. Tech. (Agrl. Engg) and M. Tech (Agrl. Engg)		
College of Co-operation, Banking and Management, Mannuthy	B. Sc. (C&B), M. Sc. (C&B) Ph. D		
College of Forestry, Vellanikkara	B. Sc. (Forestry) and M. Sc. (Forestry)		

Admission

Students were admitted to the U. G. courses of the University on the basis of ranks obtained by them in the Common Entrance Examination conducted by the Government of Kerala. For P. G. Courses selections were made by the Selection Committee constituted for the purpose. Semester system of instruction continued in the Colleges.

The number of students admitted for the different courses and the number passed out from the University during the period under report are furnished below:

Courses	Number admitted	Number passed out	
B. Sc. (Ag.)	162	: 59	
B.V. Sc. and A. H.	108	78	
B. F. Sc.	36_	37	
B. Sc. (C & B)	32	14	
B. Sc. (Forestry)	14		
B. Tech. (Agrl. Engg.)	20	18	
B. Sc. (D. Sc. and Tech.)	29	<u>-</u> -	
M. Sc. (Ag.)	39)) /	1. 46	
M. Sc. (Hort.)	23 🖟 🞾	6	
M. Sc. (Ag. Stat.)	2	1	
M. Sc. (Forestry)	8	3	
M. Sc. (C & B)	<u> </u>		
M. Sc. (Home Science) (FS & N)	14	7	
M. Tech. (Agrl. Engg.)	7.	7	
M. V. Sc.	35	23	
M. F. Sc.	2	1	
Ph. D. (Agri.)	30 /	24	
Ph. D. (Vety.)	4	· 6	
Ph. D. (Home Science)	1		

The number of students on the rolls of the University at the end of the year was as follows:

Courses	Total No. of students
(a) U. G. Courses	,
B. Sc. (Ag.)	1073 ′ ′
B. V. Sc. & A. H.	72 8 ·
B. F. Sc.	153
B. Sc. (C & B)	124
B. Sc. (Forestry)	9 6
B. Tech. (Agrl. Engg.)	105
B. Sc. (D. Sc. & Tech.)	89
b) P.G.Courses	
M. Sc. (Ag.)	163
M. Sc. (Hort.)	67
M. Sc. (Ag. Stat.)	7
M. Sc. (C & B)	3
M. Sc. (Forestry)	10
M. Sc. (Home Science) (FS & N)	23
M. Tech. (Agrl. Engg.)	20
M. V. Sc.	63
M. F. Sc.	15 ~
Ph. D. (Agriculture)	132
Ph. D. (Vety. & Ani. Sc.)	.28
Ph. D. (C & B)	3
Ph. D. (Home Science)	1

Extra curricular activities of the students and co-curricular activities were co-ordinated by the Director of Students Welfare through Physical Education teachers and other teachers of various Colleges. The Director of Students Welfare organised inter Collegiate tournaments for various games and sports during the year.

The Kerala Agricultural University continued to be a member of the Association of Indian Universities and Indian Agrl. Universities Association.

RESEARCH

The research programmes of the University have been drawn out with emphasis on solving location-specific, field oriented problems faced by the farmers of the state. In addition to State funds, the University received assistance from

ICAR, World Bank, Department of Electronics, FERRO, USDA, Hindustan Cocoa Products Ltd., Coffee Board, Department of Biotechnology, Department of Agriculture and Co-operation, Department of Science and Technology, Department of Soil Conservation, Department of Atomic Energy, Directorate of Cashew Development, Directorate of Cocoa, Arecanut and Spices Development, EEC, FACT, FAO, ICSSR, IFFCO and various other agencies.

Under the Kerala Agricultural University, five Regional Agricultural Research Stations continued to function at Vellayani (Southern Region), Kumarakom (Special region of Problem Areas), Pattambi (Central Region), Pilicode (Northern Region) and Ambalavayal (High Range Region). The technical and administrative control of these stations were vested with the respective Associate Directors under the overall control of the Director of Research.

The 22 project co-ordination groups in the Faculty of Agriculture, eight in the Faculty of Veterinary and Animal Sciences and one each in the Faculties of Agricultural Engineering and Fisheries continued to function. The Faculty Research Committee of Agriculture met once during the year and 25 projects/experiments were cleared for implementation. The Faculty Research Committee of Veterinary and Animal Sciences met twice and approved 35 projects/experiments. The FRC on Agricultural Engineering met once and approved five Projects/experiments.

Dr. N. Mohanakumaran, Director of Research attended important meetings/workshops which included Research Advisory Committee of CPCRI, Kasargod; Governing Body of the State Bank of Travancore; Governing Body of the Centre for Management Development; Meeting to review and highlight the achievements of NARP at New Delhi; General Council, meetings; FRC (Agri.) meeting at the College of Agriculture, Vellayani; Project Co-ordinators' meeting at the College of Agriculture, Vellayani; Agricultural Seminar, convened by Malayala Manorama Daily at Kollam; Seminar on "Peoples" Campaign for Planning" at Thiruvananthapuram; Discussions with Quinquennial Review Team at the Rice Research Station, Kayamkulam and AICRP Centre, Karumadi; State Seed Committee meeting at Thiruvananthapuram; Discussion with the Chairman, Governing Body and members of M/s Dinesh Beedi on transfer of technology on cashew apple, jack products and cultivation of mushroom; Plan Review meeting at Government Secretariat, Thiruvananthapuram; Task Force on Research,

Education & Training and Task Force on Field Crops at the State Planning Board: Meeting convened by FICCI on Agribusiness at FICCI, New Delhi; Five Year Plan discussions at the State Planning Board; Inauguration of Training on Electronics in Agriculture at CIFT. He visited the Cardamom Research Station, Pampadumpara during the occasion of visit of the Hon'ble Minister for Agriculture.

He visited USA to study the Agricultural University/Agribuisiness linkage in US from 19th October, 1996 to 12th November, 1996 and attended meetings and discussions at USDA, the University of Illinois, Mississippi State University, University of California, Davis and California State Polytechnic University.

Several dignitories visited the University/various research stations of the University which included Sri. Byre Gowda, Hon'ble Minister for Agriculture, Government of Karnataka; Dr. Maharaj Singh, Dr. N. N. Goswami and Dr. B. P. Ghildayal as members of the Quinquennial Review Team on AlCARP, Sri. J. P. Pronk, Hon'ble Minister for Development and Cooperation, the Netherlands; Dr. S. Shanmughasundaram, Director, International Co-operation Programme, Asian Vegetable Research and Development Centre, Taiwan; Dr. S.N. Tripathi, Training Officer, IGFRI, Jhansi; Dr. D. K. Das, Project Coordinator, AICRP on Tillage; Dr. Luis Sequeira, World Bank Dr. T. C. Jain, World Bank expert, New Delhi; Dr. H. P. Singh, Director, NRC on banana; Dr. K. V. Peter; Sri. M. R. Gopalakrishnan Nair, Director, IISR, Calicut; Chief Judicial Magistrate, Kalpatta; Justice Udaya Pratap Singh, Hon'ble Chief Justice, High Court of Kerala; Smt. K. Hema, District and Sessions Judge, Kalpatta, Justice N. Dhinkar, Hon'ble Justice, High Court of Kerala.

The Faculty-wise details of externally aided research projects/schemes implemented as on 31-3-1997 are given below:

ng. Fish		Total
0	_	
	- 5	35
0	1	2
'2	9	63
2	23	118
. 0	0	2 -
4	38	210
_	2 2	2 9 2 23 0 0

The Zonal Research-Extension Advisory Council meetings were held in two regions as follows:

Special Zone of Problem Areas: 16th January, 1997
Northern Zone: 30th January, 1997

Research achievements

Eighteen high yielding varieties evolved by KAU Scientist were approved for release by the State Seed Sub Committee on 17th September, 1996.

Crop.	Cultivars	Evolved at	Remarks
1	2	3	4
Rice	Vyttila-5 (KAU-655)	RRS, Vyttila	Mutant of Mashuri recommended for Pokkali and other flood prone areas. Average yield 3250 kg/ ha.
Rice	Ranjini (MO-12)	RRS, Moncompu	Average yield 5201kg/ha. Resistant to blast, sheath blight, sheath rot and BPH.
Vegetable . Cowpea	KMV-1 (VS-4)	RARS, Kumarakom	Selection from Manjeri Red Plain. Average yield 13.5 t/ha. High protein content. Dura- tion 90-120 days.
Winged beans	Revathy (PT-52)	CoH, Vellanikkara	Average yield 600-700 g/plant. Immature pods contained 2.5% protein.
Brinjal	,Swetha (SM-6-6)	CoH, Vellanikkara	Selection from SM-6. Cooking quality excellent. Tolerant to fruit borer. Yield potential 31.5 t/ha.
Chilli	Ujwala (CA-219)	CoH, Vellanikkara	Clustered wilt resistant variety. Average yield per plant 713 g. Resistant to bacterial wilt and free from leaf curl and mosaic diseases.

1	2	3	4
Bittergourd	Priyanka (Sel. 1010)	SRS, Thiruvalla	Average fruit yield 28 t/ha. Tolerant to downy mildew. Average fruit weight 300 g duration 4 to 5 months.
Bittergourd	Preethi (MC-84)	CoH, Vellanikkara	Average fruit weight is 310 g, Duration 4-5 months. Average yield 15 t/ha.
Snakegourd	Kaumudi (Accession- 2009)	SRS, Thiruvalla	Tolerant to downy mildew. Yield potential 61 65 t/ha.
Cassava	Kalpaka (KMC-1)	RARS, Kumarakom	Duration 6 months yield 42.5 t/ha under intercropped situation and 61.2 t/ha under pure crop situation.
Sugarcane	Madhurima (Cul. 627/85)		Cross from Co 740 x Co 7318. Tolerant to red rot disease. Average yield 125 t/ha.
Pepper	Panniyur-5 (Cul. 339)	PRS, Panniyur	Average yield 3070 kg/ha. Suitable for mono cropping and companion cropping.
Long . Pepper		CoH, Vellanikkara	Selection from Cheemathipalli. Average yield 317 kg/ha. Alkaloid content 2.83%.
Turmeric	Kanthi (VK 47)	CoH, Vellanikkara	Average yield 7.3 t/ha. Curcumin content 7.18%. Oleoresin content 12.13%.
Turmeric .	Sobha (VK-82)	CoH, Vellanikkara	Average yield 5.74 t/ha
Cashew	Dharasree (H-3-17)	CRS, Anakkayam	Flowers early, mean yield 15 kg/tree/year. Suitable for laterite and red loam soils.

1	. 2	3	4
Cashew	Sulabha (K-10-2)	CRS, Anakkayam	Bold nuts with high yield and superior kernel characters. Suited for export purposes. Mean yield kg/tree/year.
Oyster mushroom	Ananthan (Vellayani- P2)	CoA, Vellayani	Tolerant to Tricho- derma disease. Pure white in colour and fleshy.

Other salient findings of research conducted during the year are as follows:

Rice and Rice-based Cropping System

Three cultures of the popular rice cultivar 'Cheradi' viz... No. 16, 5 and 3 produced by mass selection and bulk progeny testing were ready for farmers field trials as pre-release cultures in lateritic areas. The cultures M-38-4-2 and M-42-6-3 (medium duration) and M-38-4-1 and M-45-20-1 (short duration) were in farm trial. The cultures M-59-29-2-1-2, M-61-6-1-1-1 and M-61-6-1-1-2 which were under multi-location trials have shown resistance to gall midge attack. Two medium duration semitall rice cultures, Cul. 23-92-1 and Cul. 10-15-1 and two short duration dwarf rice cultures, Cul. 4-57-2 and Cul. 7-7-1-1 were identified for MLT and farm trials. Twenty two rice varieties widely adapted in Kerala were tried under transplanted conditions. Among the short duration group, Kanchana was found to produce the highest yield followed by Kairali and Bhagya. Cul RM-7, with an yield of 6322 kg/ha, ranked first in the medium duration group. In the high ranges, evaluation of rice varieties showed that 'Edavaka' was superior to the other high yielding varieties with regard to grain and straw yield. This variety was found suitable for cultivation in the high ranges during the first and second crop seasons.

In the balanced fertilisation for maximising yield in rice under irrigated conditions, the NPK ratio of 4.0:2.5:1.0 gave higher yield than the ratio 4.0:2.0:1.0. A fertilizer dose of NPK 90:35:50 kg/ha and a split application of fertilizer half as basal and one-fourth each at active tillering stage and panicle initiation stage were found to give high yield for extra short duration rice cultivars for Kole lands. Nitrogen use efficiency

could be increased by coating urea with neem extract and shade drying for 1 to $1\frac{1}{2}$ hours. This can be applied to directive seeded puddled low land rice.

For the control of stem borer in rice, the new insecticides Marshal 5 G and Trelka 25 EG were found to be equally effective as the check insecticides Carbofuran 3 G and chlorpyriphos 20 EC. Against leaf folder attack, carbofuran, Trelka and RH 2485 were effective. Application of Quinalphos AF, Lindane 3% dust, Lindane 20 EC or Chlorphyriphos 20 EC @ 0.5-1.0 kg. a. i./ha at 30 and 45 days after planting did not leave any residue in the harvested paddy and hence could be applied for the control of various pests without any hazard of pesticide residues.

The fungicide formulations 'Opus' and 'Atemi' were found to be effective against sheath blight and sheath rot.

Experiments to study the terminal residues of Quinalphos AF, lindane, chlorpyriphos and mancozeb in rice following a scheduled application on 30 and 45 days after planting showed that the harvested produce viz., grain, bran, husk and straw were free from pesticide residues. Hence these chemicals can be recommended for control of pest infesting paddy in the early stage of crop growth.

Continuous application of cattle manure recorded significantly higher yield for dwarf indica rice variety Jaya, whereas combined application of cattle manure and chemical fertilizers at 1:1 ratio on N basis recorded higher yield for tall indica rice. The growth rate of Azolla was at its peak during August to September and minimum in November. Exotic strains of Azolla filiculoidis, however, maintained a steady growth throughout the year.

The studies conducted for two seasons in 1992 in two existing permanent manurial trials at Pattambi showed that in the grain, significantly higher contents of N, K and Mg were recorded in the second season. There was not much difference in the P content between the seasons. Similar trend was observed in the nutrient content of both tall and dwarf *indica* varieties, except for Ca. In the case of Ca, no uniform trend was shown in both the experiments.

Isachne miliaceae, a dominant weed in the rice of Onattukara could be controlled by the local practice of hoeing at 15 DAS and hand weeding twice at 25 and 40 DAS. Application of oxyflourfen @ 0.1 kg per ha as pre-emergence

followed by hand weeding at 30 DAS was on par with the local practice. In the farm trials conducted, the herbicide anilophos @ 0.4 kg ai/ha was found effective for weed control in wet seeded conditions. Pretilachlor was recommended as a broad spectrum pre-emergent herbicide for dry sown low land (semi-dry) rice, to be applied at the rate of 1.0 kg ai/ha.

Cowpea, raised as an intercrop in dry seeded low land rice by sowing @ 12.5 kg/seed/ha along with rice, could serve as an effective source of green manure. When the rice fields got submerged with the onset of SW monsoon, cowpea at the active vegetative stage decayed and got self incorporated in the soil adding substantial quantity of green manure. Such a system of concurrent growing of cowpea also reduced weed pressure in semi-dry rice.

Pulses and oil seeds

Four cultures of groundnut given to farm trials were found significantly superior to the standard and local cultivars. Cul. 3 and 4 are early maturing types (80-85 days). Four high yielding short duration green gram cultivars suitable for the summer rice fallow having good cooking quality, viz., Pusa 90-72, Pusa 90-32, W GG-2 and Pusa Baisakhi were selected and proposed for MLT and farm trials.

The survey on status of pulse production in the Central Zone revealed that cowpea accounted for more than 90% of area under pulses. Though red gram, green gram, bengal gram and black gram are the major pulses consumed in the State, the area devoted to these crops was negligible.

For augmenting the yield of sesamum, a fertilizer application schedule of 75% of the nitrogen and potash as basal dressing and the remaining 25% as foliar application at the time of branching was found to be significantly better than full basal or other combinations and methods of N and K application

Vegetable crops

The wild relatives of bhindi, Abelmoschus ficulneus, A. moschatus, A. tetraphyllus, A. manihot sp. tetraphyllus and Hibiscus huegelii were found to be resistant to yellow vein mosaic virus under the hot spot situations of the southern region of Kerala. Among the cultivated types, Arka Anamika, Parbhani Kranti and Vijai were found to be tolerant to the virus upto the harvest of 15th fruit from a plant.

The experiments on in vitro embryo rescue to overcome post-zygotic in compatibility revealed that culturing 12 and 15 day old embryos of A. esculentús cv. Kiran x A. moschatus and A. esculentus cv. Anakomban x A. moschatus was successful on MS medium supplemented with BA 0 5 ppm+CW 15%.

A selection from the F2 generation of the cross between Parbhani Kranti x Kiran was found to be free from the incidence of yellow vein mosaic. For getting quality seeds in bhindi, the seed collection must be started after two harvests of immature fruit as vegetable. It was also observed that vermi compost was better than FYM as an organic source in bhindi production.

Water melon cultivars Sugar Baby, Asahi Yamato, Fuken and Arka Manik were found superior for the rice fallows of the southern region of Kerala.

Application of more organic manures and less inorganic fertilizers increased the shelf life of fruits and seed viability in both cucumber and ashgourd. Sowing in the month of September and October was found to be the best to raise a mosaic free crop of pumpkin.

The pathogen causing foliar blight disease of amaranth was identified as Rhizoctonia solani.

In cabbage, a spacing of 60 cm x 45cm and a nitrogen dose of 150 kg/ha plus 10 t/ha farm yard manure were found to give maximum yields.

Bacterial wilt resistant and high yielding white fruited brinjal SM 6-6 (Swetha) has been identified nationally as promising by the Work Group meeting on vegetables held at BHU, Varanasi. Two high yielding, bacterial wilt resistant, purple fruited F_1 hybrids in brinjal (Surya x SM-116 (Round) and Arka Kesav x SM-71 (long) were developed.

In sweet potato, it was observed that 50% of potassium could be substituted by sodium as NaCl without any adverse effect on yield and quality of the tuber. In Chinese potato, genotypes CP-79 and CP-74 were identified for Central region and advanced for farm trials.

Fruits

Banana

The fertilizer requirements for the plant crop and the ration crop of banana cultivar Palayamkodan grown in reclaimed alluvial soils of Kuttanad were standardised.

A new fungus was isolated from the cyst nematode attacking banana of Pananchery block area. The pathogenicity of the fungus is being ascertained.

For the control of banana pseudostem borer Odoiporus longicolis, carbaryl/chlorpyriphos 0.2% (4 g/litre) at monthly interval from the 4th month of planting till bunch emergence was found effective.

Assessment of nematode population in the root zone of banana reveated the predominance of the burrowing nematode, Radopholus similis. The rice nematode, Heterodera oryzicola was also seen. For the control of burrowing nematode Radopholus similis, paringithe banana suckers with 5% monocrotophos for 20 minutes and raising Crotalaria juncea as intercrop in banana garden were found to be highly effective.

The variety 'Grand Nain' introduced from Israel through the Jain Irrigation Company, Jalgaon was found to perform well under Kerala conditions.

Pineapple.

One pineapple type having fruit characters of cv. Kew and leaf characters of cv. Mauritius was identified at Vazhakulam.

Mango

The study to test the effectiveness of insecticides against the mango jassid revealed that Cypermethrin (50 ppm) and Endosulfan (0.05%) effectively controlled the hopper infestation on mango panicles and increased the number of fruits produced per panicle, when the chemicals were applied twice, once at the panicle initiation stage and again 15 days after the first application.

Spices

In black pepper, cv. Panchami was the highest yielder among the 14 cultivars tested under a multi-locational trial. In the evaluation of open pollinated and hybrid progenies of pepper, Cul. 4879 (Uthirankotta OP) recorded the maximum green berry yield. *Piper barberi*, an endangered species was added to the germplasm collection of *Piper*.

Spraying with 0.2% Akomin followed by spraying and drenching with 1% Bordeaux Mixture was effective in checking the foot rot disease of pepper in shaded conditions. Application of phorate (3 g ai/vine) and copper oxychloride (0.3%) reduced the slow wilt disease of pepper. The symptoms of the little leaf disease of pepper was described. The disease was observed in all age groups of plants and the intensity increased with

age. The variety, Karimunda was highly susceptible and Panniyur-1 tolerant. The etiology of the disease is due to MLO.

Viable protocol for large scale multiplication of black pepper was standardised. On vitro screening for Phytophthora foot rot tolerance could be isolated two variants with relatively good tolerance to the disease.

Introduction of variability in ginger using colchicine resulted in the isolation of two autotetraploids with 2n=44 and four morphological variants with high yield potential. Among the forty turmeric cultivars, "Sugandham" recorded [the highest yield of green rhizomes followed by "Amalapuram".

A survey revealed that in ginger and turmeric, the burrowing nematode and the root knot nematode were the major phytonematodes associated. Application of carbofuran (1kg ai/ha) or neemcake (1 t/ha) and application of carbofuran or neemcake at 45 days after planting significantly reduced the nematode population and increased the yield. Studies on soft rot disease of ginger indicated that seed treatment with captan 0.2% was effective in controlling the rhizome rot. The ginger cv. Eranadan recorded the lowest incidence of bacterial wilt and was free from the incidence of Phyllosticta leaf spot among the cultivars screened for resistance to pests and diseases. It also recorded the highest yield among the cultivars tested.

In ginger, studies on the impact of organic manures and Azospirillum indicated that application of farm yard manure alone @ 48 t/ha increased yields, net returns and cost benefit ratio. Soil inoculation of Aspergillus niger in combination with copper oxychloride 0.3% or Mancozeb 0.3% was effective in checking the incidence and severity of rhizome rot of ginger.

Studies on the effectiveness of soil solarization indicated that the treatment increased the soil temperature. Solarization was effective in controlling the soft rot of ginger. Solarisation had suppressing effect on weeds. Yield of ginger was also increased in solarised plots.

For the control of weeds of cardamom, paraquat 0.4 kg per ha (bimonthly) or glyphosate (0.8 kg per ha) were effective

Waiting periods of quinalphos and monocrotophos for cardamom were found to be 23 and 22 days, respectively while waiting periods for dimethoate and quinalphos for pepper were fixed as 5 and 12 days, respectively.

Arematic & Medicinal plants.

An experiment conducted on the effect of biofertilizers on N and P economy in Palmarosa (Cymbopogon martinii) involving Azotobacter, Azospirillum and P solubilising bacteria showed that they can substitute chemical fertilizers to the level of 20 kg/ha (each of N & P).

A study of morphoanatomical variations in Ocimum spp. revealed that the species O. tenuiflorum and O. gratissimum were related and O. basilicum and O. canum were related. The protein banding pattern obtained also supported this. Among the four species studied, O. basilicum and O. canum appears to be more advanced from an evolutionary point of view. A key for the identification of Ocimum spp. was developed.

A spacing to 50 x 50 cm with 20% organic manure and 30:30:60 kg NPK per ha produced the maximum dry spike yield in *Piper longum*.

Forage crops

In an evaluation trial, guinea grass variety PGG-519 recorded the maximum green fodder yield of 63 t/ha and dry fodder yield of 22.2 t/ha.

Coconut & coconut-based cropping system

Preliminary observations on coconut revealed that the hybrids released by the University were performing better than the elite cultivars planted in 1976. The hybrid Keraganga performed better than Lakshaganga, Kerasankara and Chandrasankara in cumulative out turn of copra per palm.

A multiple linear regression model was developed for predicting nut yield in coconut, seven months ahead based on agrometeorological indices. The actual and predicted coconut production were in good agreement.

The studies conducted so far revealed that 25% of the potassium requirement could be substituted with sodium, both in adult and young coconut palms. Burying coconut husks in coconut gardens conserved soil moisture and alleviated the ill effects of drought.

Neem cake @ 5 kg per palm/year plus soil drenching Calixin @ 25 ml/25 I. of water at four month interval checked the stem bleeding disease of coconut. A new disease of coconut "progressive chlorosis and crown rot" was observed in coconut. Timely control measures were recommended for the disease.

Studies on the methods for radiation exposure of coconutindicated that it was enough to keep brass capsules in three locations around the palm for a period of 30 days for getting measurable and consistent values. Maximum root activity was observed at 30 cm depth the pure and mixed stands of coconut. The lateral spread of roots was up to 275 cm in both the stands. In cocoa, the active roots were found distributed upto 60cm and lateral spread, upto 175cm.

Commercial crops

Cocoa

In cocoa, top worked plants came to bearing in about an year and as much as 44% of pre-experimental yield could be recovered after 17 months. The extent of yield advantage after yield stabilisation was 92%.

Calixin spray at the rate of 0.1% was found to be effective in preventing the incidence of Vascular Streak disease in cocoa seedlings.

Cashewnut

The hybrid H 1600 was found to be superior in cashew nut yield, followed by MDK-1. The MDK-1 were superior for juice purposes. A hybrid, H-1597 was found to be promising. Two cashew hybrids 41-7-6 and H-8-1, highly suited for export oriented cashew cultivation, were evolved at the Cashew Research Station, Anakkayam.

Two cultivars from Tamil Nadú, M 26/2 and M 44/3 and one from Maharashtra, Vengurla-5 were found promising for Kerala.

Sugarcane

The culture Co 88017 gave higher cane yield than all the other cultivars released from the SRS, Thiruvalla including 'Madhuri'. The culture 527/85 was identified as superior for the Thiruvalla tract. This out-yielded Madhuri in quality characters.

For jaggery production, the cultivar Co 88017 was found to be highly suitable and having high jaggery production compared to the other cultivars released by KAU and SBI, Coimbatore.

Atrazine @ 2 kg ai/ha, applied three days after planting as pre-emergent herbicide, was found very effective in controlling the weeds in sugarcane fields.

Floriculture

Floral description of 10 hybrids of *Dendrobium* revealed that in all the hybrids, anthesis occurred during the day time and the stigma receptivity was maximum between 4-6 days after anthesis. Studies on pollen morphology showed that the pollen grains were agglutinated in masses called pollinia. Pollen size varied from 27.91-48.52/a. Pollen fertility ranged from 4.42-73.98 percent. *Dendrobium* was found to be self incompatible with few exceptions.

The growth of anthurium was better under 80% shade. Application of BA 750 ppm increased the suckering of the plants. A shade level of 50% was preferred by *Philodendron wendlandi*.

Integrated farming

Studies were conducted on integrated system models involving crops, livestock and fish under Kuttanad conditions. The interspaces available under coconut palms can be utilized for growing banana, yams etc. Fodder grass can be grown on the fringes of the bunds. In addition to the crops, a cow can be maintained @ 2500 m² area of coconut garden which can provide cowdung sufficient for manuring 88 coconut palms, 200 banana, 1000 m² fodder plot and 400 yams. The intervening channels offer immense potential for growing fish and fresh water prawns. When compared to monoculture of coconut, this integrated system resulted in 157 percent increase in the net profit.

Post harvest technology

Among the mango harvesters designed and fabricated, KAU Mango Harvester III was found superior to the traditional harvester in terms of harvesting efficiency, retention of pedicel and collection of fruits in the net. Handling of mangoes in rectangular plastic crates was superior in terms of number of marketable fruits, minimum physiological loss in weight, and less incidence of diseases. Dipping fruits in warm water (52°C) containing carbendazim 0.05% showed minimum physiological loss in weight, less spoilage in terms of shrinkage, discolouration and disease tolerance.

Soils and agronomy

The major wetland soil series of Thiruvananthapuram district, viz., Kuttichal, Marukil and Amaravila series were identified and two types locations for each series selected for work under AICRP (Tillage).

Partial substitution of muriate of potash by common salt in cassava was found highly beneficial. Spilt application of urea considerably reduced the N loss through ammonia volatilization.

Results from the permanent manurial experiments for both tall and dwarf indica series clearly validated the manifold beneficial effects of the combined application of organic and inorganic manure on soils and crops.

Vermicompost

The earthworm species Eudrillus eugineae was found to be an effective agent for vermitechnology in Kerala. Vermicompost @ 12 t/ha, along with NPK @ 50:8:25 kg/ha, was found to give twice the yield in bhindi compared with cattle manure plus the same dose of NPK. Release of earthworms @ 50 worms/ m^2 two weeks after the basal application of fertilizers recorded $1\frac{1}{2}$ times yield as against the Package of Practices Recommendation of cattle manure and NPK, in bhindi.

A local earthworm species *Perionyx sansibaricus* was tested for its composting efficiency and found useful for vermicomposting.

Enrichment of vermicompost was found possible by inoculating with beneficial microbes such as N fixing organisms P solubilising organisms etc. Azospirillum treated composts had a higher N content while both Azospirillum and P solubilising organisms treated composts had the maximum N and P content. Microbial enrichment, in general, had no significant effect on the level of micro nutrients in the compost.

Food and nutrition

A ready to mix food was developed based on rice and soya. The selected combination was rice 20%, soya 50%, milk powder 20% and wheat flour 10%.

An extruded product 'Sev' was developed with rice, soya and maida in the ratio of 60:20:20. With 'sev', 15 recipes were standardised.

NWDPRA

The Government of Kerala sanctioned a sum of Rs. 64.52 lakhs (in addition to Rs. 14.19/- sanctioned during 1995-96) during 1996-97 for the conduct of 32 replicable research projects in selected water sheds in the five agro-climatic zones of the State. The experiments progressed. The University has laid out 314 approved experiments in the farmers' fields:

Veterinary & Animal Sciences

Animal Production Management

A study on the draught efficiency of Asian elephants revealed that elephant at 10 per cent draft can work for 3 hr. continuously without becoming fatigued. At 20% draft, elephants started showing fatigue signs. At 30% draft, elephants became fatigued after 2 hrs of continuous work.

Studies of comparative draught performance of cattle and buffaloes revealed that dry land ploughing caused significantly higher increase in respiration, pulse and rectal temperature coupled with behavioural signs of extreme heat stress in buffalo compared to cattle. Splashing of water and mud and evaporation of the same from the body surface under wet land ploughing seemed to aid the buffaloes in thermolysis and maintenance of homeothermy.

Analysis of management practices and economics of goat rearing under homestead farming system showed that fixed and variable cost were lower in Palakkad than in Malappuram district; but the gross income was more in Malappuram than in Palakkad. The major constraints faced by farmers were in feeding and availability of labour.

A comparative study on the effect of PMSG and FSH-P on superovulatory response was conducted and PSH-P was found to be superior. Methods were standardised for the freezing of embryo.

Diseases/Health cover/vaccines

In dogs, two techniques of anastomosis were done viz; coaptation anastomosis and marlex mesh prosthesis and anastomosis. Coaptation anastomosis produced rapid healing with very little complications. But marlex mesh prosthesis and anastomosis was accompanied by stenosis of tracheal lumen. Partial Keratectomy with and without conjuctival plasty was adapted in the correction of corneal lesions in dogs. The techniques were found to be satisfactory.

Comparative study of crushing and modified gambee techniques for intestinal anastomosis was conducted in dogs. It was seen that the techniques were satisfactory; but crushing sutures were easy to perform and simple. However, the healing was rapid in modified gambee technique and luminal stenosis and adhesion were minimal.

Studies on intra-uterine infusion of homologus plasma in the treatment of Endometritis in cows revealed that homologous plasma drawn from cow at the time of oestrus has significant bactericidal or bacteriostatic property. Infusion of plasma into the uterus was found to hasten the clinical recovery from endometritis and better conception rates.

Bacteriological quality of raw milk samples from three different sources such as University Livestock Farm, Mannuthy; Ollukkara Ksheera Vyavasaya Co-operative Society and Pananchery Milk Producers Co-operative Society was compared. Significant difference was observed in various bacterial counts.

Acuria spiralis and Strongyloides avium were reported for first time in India. The life cycle of Ornithostrongylus quadriradiatus was worked out.

Urea and ammonium sulphate 1% were found to have highest ovicidal property when mixed with dung. Quick lime was found to have the highest larvicidal property when mixed with dung. Prasiquantel (Cestonil) was found to be very effective against cestodiasis in elephants at 2mg/kg body weight.

During the period under report, mortality among duck-lings and adult ducks were reported from various parts of the state. Pasteurella organism and duck plague virus were isolated and identified. A new vaccine prepared from the isolate was under trial.

The studies on mastitis showed that yeast and yeast like fungi played a major role in mastitis, especially chronic cases. The prevalence of subclinical form of mastitis was observed. Streptococci, Staphylococci and E. coli were isolated from the milk samples.

A combination of xylazine and thiopentone sodium provided smooth induction, analgesia and satisfactory plane of surgical anaesthesia for a period 30-45 min. in dogs. Xylazine as a premedicant reduced the dose of thiopentone required for general anaesthesia in dogs.

Result of the experiment on the effect of bacterial starter culture in reducing aflatoxin M1 in milk by different bacterial culture revealed that incubation with 2% bacterial culture (irrespective of the bacterial culture type) reduced the AFMI level significantly.

For the diagnosis of Rabies, a modified seller's straining technique was developed, perfected and recommended for field application.

Ochractoxin was demonstrated to cause suppression of cell-medicated immune response.

Livestock Production Technology

Coconut-based ice cream products were developed and recommended for commercial exploitation.

A method of vacuum condensing whey solids was standardised. It was found that cheese could be used in a condensed form for the preparation of yoghurt.

Basic research

DNA of three strains of duck plague virus was subjected to restricted indo nuclease analysis to identify various strains of duck plague virus isolated from Alleppey district.

Fisheries

LC 50 values of two widely used pesticides of Kuttanad, monocrotophos and phosphamidon have been arrived at on Channa marulius, H. fossillis and A. testudineus.

Experiments on broodstock development of the priced ornamental fish, sucker cat fish (Hypostomus plecostomus) showed that the fish preferred the compounded feed prepared with clam meat, ground nut oil cake and wheat bran as the main ingredients compared to clam meat alone. The compounded feed, given @ 10% body weight of the fish, showed a consumption rate of 42-63%.

In order to find out an effective substitute for live feed such as Artemia nauplii for the hatchlings of ornamental fishes, experiments were conducted where Angel fish hatchlings were fed only on formulated feed having Spirulina, egg. yolk etc. as ingredients.

A combination of locally available food ingredients viz., copra, rice, bran and clam meal was found to be a very good composite feed for giant freshwater prawn.

Agricultural Engineering & Technology

A novel Jackfruit Harvesting Tool was developed and demonstrated. A garden transplanting tool was developed and field tested. A tractor operated helical blade puddler has been fabricated.

EXTENSION

The Directorate of Extension is responsible for the extension education activities of the Kerala Agricultural University. The Communication Centre, the Central Training Institute and the Information Cum Sales Centre which form the main constituents of the Directorate of Extension spearhead the front line extension activities of the University. The extension activities of the University are implemented through constituent research stations and educational' Institutions under KAU.

The Krishi Vigyan Kendras (KVK) sponsored by the ICAR and the Village Adoption Programme are other Transfer of Technology programmes implemented by KAU.

Information Communication through various media is the major activity of Communication Centre which comprises the Farm Advisory Service, the Information Unit, Exhibition and Graphic service and the Publication Unit.

The Farm Advisory Service Unit participated in 43 Agricultural Seminars organised at Thrissur, Palakkad, Kozhikode, Idukki, Alappuzha and Thiruvananthapuram districts in which 3300 farmers were benefitted. 592 farmers were given advice in person in various problems confronted by them in the field of agriculture, animal husbandry and fish culture. Replies were also sent to 290 letters seeking information on agriculture and allied subjects through mail. Besides, several diagnostic field visits were also conducted in Thrissur, Palakkad and Ernakulam districts during the period under report.

The Publication unit brought out several technical publications which included books and Kalpadhenu-the quarterly Malayalam magazine—from the centre.

The Exhibition and Graphic service unit conducted 12 exhibitions in and around Thrissur District. Colour transparencies, photographs and blow-ups were also prepared by the unit.

WORKS

The provision for the Engineering works for the year 1996-97 was 30.200 lakhs under plan and 35.182 lakhs under Non-plan. The total expenditure incurred during the period under report was Rs 2 crores 80 lakhs.

KAU ESTATE.

Out of the total area of 391.44 hectares of the Estate, 253.30 ha were allotted to other schemes. A total quantity of

30956.87 kg latex was produced during the year. The total receipt and expenditure during the year were Rs. 1114481 and Rs. 3613135 respectively.

KAU SCHOOL

A total number of 832 students were in the roll during the period. The strength of teaching staff was 17 and that of the non teaching staff 6. The school won the 1st prize in Maths Exhibition at Thrissur Educational District during the School year 1996-97.

FINANCE

The University had adopted a budget estimate for Rs.7151 lakhs for 1996-97 anticipating a grant-in-aid of Rs. 4700 lakhs from the State Government (3200 lakhs under Non-plan and Rs. 1500 lakhs under Plan), ICAR assistance of Rs. 457 lakhs and specified scheme tide assistance of Rs. 241 lakhs from other sources like DBT, DST EEC etc., internal resources of Rs. 526 lakhs and Rs. 1227 lakhs from pension fund, loans and advances, income from investment, opening balance etc. The total expenditure incurred during the period under report for various functions of the University was Rs. 5557.671 lakhs against actual receipts of Rs. 5381.088 lakhs.

General Administration

The Kerala Agricultural University came into existence on 24th February, 1971 under the KAU Act 1971 (Act 33 of 1971).

The Main Campus of the University at Vellanikkara is 13 km east of Thrissur town on the Thrissur-Palakkad highway (NH 47). The College of Horticulture and College of Forestry are located at the Main Campus. The University has six other teaching campuses, viz., College of Veterinary and Animal Sciences, Mannuthy; College of Co-operation, Banking and Management, Mannuthy; College of Fisheries, Panangad, College of Agriculture, Vellayani, Kelappaji College of Agricultural Engineering and Technology, Tavanur and College of Agriculture, Nileshwar. In addition to this the University has 28 major research stations distributed throughout the State. Some of the stations are also recognised as centres for PG research of the University. When the NARP was implemented in the University five of these stations were recognised as Regional Agricultural Research Stations. They are located at Pilicode, Ambalavayal, Pattambi, Kumarakom and Vellayani.

The University received financial assistance mainly from the State Government and ICAR. Financial assistance was also received from outside agencies like the NARP, the Department of Science and Technology, the Department of Environment, Government of India, Department of Electronics, Government of India, FERRO, USDA, Coffee Board, ICSSR, Hindustan Cocoa limited etc.

Officers of University and Administrative set: up

The officers of the University are the Chancellor of the University (Governor of Kerala), the Pro-Chancellor (Minister of Agriculture) and the Vice-Chancellor who is the Chief Executive and Academic Officer of the University.

The Vice-Chancellor is also the ex-officio Chairman of the General Council, Executive Committee and Academic Council. The Vice-Chancellor is a full time Officer of the University and has the immediate overall control of the University. The other Officers of the University are the Deans of Faculty, the Director of Research, Director of Extension, the Director of Physical Plant, the Registrar, the Comptroller and the Director of Students Welfare.

The general administrative control is vested with the Registrar, while the Comptroller is responsible for budgetting, finance, statements of accounts and audit. The Co-ordination, direction and administration of research activities in the University are vested with the Director of Research. The Director of Extension is responsible for extension education and public relations. The Deans and Associate Deans of the various colleges are in charge of resident teaching and instruction in the respective colleges. The Director of Physical Plant is in-charge of the construction and maintenance of buildings, roads, vehicles and machinery.

Authorities of the University

The statutory authorities of the University are the General Council, The Executive Committee, The Academic Council, the Faculties and the Board of Studies of each faculty. The list of members of these bodies are appended.

General Council

The supreme authority of the University is the General Council. The Council is reconstituted every three years. The term of the General Council constituted on 31/1/1995 continued through-out the period under report.

Ordinarily the Council meets once in four months. The General Council met three times during the period under report.

The Executive Committee

The Executive Committee is the Chief Executive authority of the University. The Committee consists of thirteen members with Vice-Chancellor as the Chairman. The 13 members are, 3 ex-officio members (Secretaries to Government Department of Agriculture, Rural Development and Finance); one ICAR representative in the General Council; one from among the women members, one from among the Scheduled caste/

Scheduled Tribe members, one student representative, one from among the teachers, one from among the deans and three other non-official members (list of members appended).

During the report period, the executive committee met

Academic Council

The Academic council of Kerala Agricultural University was reconstituted for a period of (three years from 28.12.1996 (list of Academic Council members appended).

The Academic Council is responsible for the maintenance of standards of teaching in different faculties of the University. The Academic council shall exercise such other powers and perform such other functions as may be conferred or imposed upon it by statutes. During the year 1996-97 two meetings 71st and 72nd were held.

Important decisions taken by the Academic council were the following.

71st meeting of Academic Council held on 9.7.1996

Approved the P. G. prospectus for the Academic year 1996-97.

Approved the proposal for the deputation of KAU teachers/ Scientists for higher studies during the year 1996-97.

Revised the syllabus for the B. Sc. (Ag.), B. Sc. (Forestry) and B. Sc. (C & B) course.

Approved the proposal for strengthening of full fledged department of Plant Physiology and initiation of P. G. programmes.

72nd meeting of Academic Council held on 18.10.1996

Prescribed statutes for Associate Dean, College of Horticulture/ Agriculture, Associate Dean, College of Co-operation, Banking & Management.

Approved the proposal for starting P. G. Diploma in Food Science & Nutrition and Diploma in Nutrition and Dietetics.

Prescribed qualifications for Assistant Professors, Associate Professors and Professors in the Department of Veterinary Bio-chemistry in the Faculty of Veterinary and Animal Sciences.

Prescribed qualifications for the post of Assistant Professors, Associate Professors and Professors in the Department of Livestock Products Technology in the Faculty of Veterinary and Animal Sciences. Decided to propose amendment of Statutes SRO No. 70/72, SRO No. 264/72, SRO No. 1112/79 and SRO No. 1245/86 for the post of Deans, Director of Research, Director of Extension Education, Professor and Associate Professor.

Decided to reserve one seat for M. Sc. (Hort.) course for the nominee of Union Territory of Lakshadweep.

Sub Committee 🧓

The Chairman and Convenor of various Sub Committees of General Council and Executive Committee are given below. Names of the members of the Committees are appended.

Sub Committees of General Council

i) Assurance Committee

Chairman Sri. C. Haridas, Ex-M. P.

Convenor Registrar

ii) Accounts Committee

Chairman Sri. M. A. Wahid Convenor Comptroller

iii) Statute Sub Committee

Chairperson Prof. Savithri Lekshmanan

Convenor Registrar

Sub Committees and Executive Committees

i) Establishment Committee

Chairman Sri. K. C. Joseph, MLA

Member-Convenor Registrar

ii) Research Review, Committee

Chairman Vice-Chancellor

Member-Convenor Director of Research

iii) Finance Committee

Chairman Vice-Chancellor

Member-Convenor Comptroller

iv) Planning and Development Committee

Chairperson Smt. Saraswathy Kunhikrishnan

Member-Convenor Director of Research

v) Student's Welfare Committee

Chairman Sri. K. Gopalan

Member-Convenor Director of Student's Welfare

vi) Works Committee

Chairman Sri. K. M. Soopy (upto 13.8.'96)

Sri. Johny Nelloor, MLA

continued as Chairman for rest

of the period.

Member-Convenor Director of Physical Plant

Research Council

The Research Council (Research Advisory Committee) reconstituted as per the decision of the Executive Committee held on 16.5.90 is continuing. The main responsibility of the Research Advisory Committee is to advise the University on formulation of the research programmes.

Extension Advisory Committee

The Extension Advisory Committee renders advice in extension education activities with are organised through the Directorate of Extension.

Faculty Research Committee

The main duties of the Faculty Research Committees are to scrutinise the research proposals received from the different co-ordinators and to review the progress of research in Kerala Agricultural University periodically.

Co-ordination Groups

The various Project Co-ordination groups organised are authorised to critically examine the research proposal received from Project Leaders, Principal Investigators and to review the progress in the concerned group.

Faculty improvement

The members of the academic staff were provided with opportunities to acquire higher qualifications by granting deputation, study leave or leave for study purposes. They were also sent for short term training courses, summer institutes etc, in different specialised centres and for participating in seminars, symposia, workshops etc., organised by different scientific agencies/ICAR institute or other Universities.

Student's Admission

Admission for undergraduate courses in the University was made on the basis of a common entrance examination conducted by the Government of Kerala. Admission to the various post-graduate courses was given on the basis of marks obtained in the qualifying examination, experience, number of research papers published and the performance at the interview. Few seats were reserved for ICAR nominees and SC/ST candidates.

Labour

Farm labourers constitute a major category of personnel in the University. Two categories of workers—Casual and

Permanent—exist in the farms and research stations under the Kerala Agricultural University. In respect of service conditions and wages, generally, the University follows Government orders applicable to the labourers of the Departments of Agriculture and Animal Husbandry.

Important Engagements of Vice-Chancellor, Kerala Agricultural, University during 1996-97

Dr. A. M. Michael continued as Vice-Chancellor of the University during the period under report.

The Vice-Chancellor chaired the meetings of the different Committees of the University including General Council, Executive Committee, Finance Committee, Academic Council, Officers' Meeting, P.G. Committee, Research Review Committee, Faculty Research Committees, KHDP Review meeting. He also chaired the Selection Committee meetings.

The other important meetings and functions attended by the Vice-Chancellor are the following:

He attended the Vice-Chancellors' meeting held at Indian Council of Agricultural Research, New Delhi during the period 2-7-96 and 17-9-96. Participated as Chief Guest of Annual Day celebrations of Chamber of Commerce of Thrissur. Attended meeting with the Panchayat Presidents of nearby Panchayats of Fisheries Research Station, Puduvaipu, regarding the implementation of Wasteland Development Programme on 26-6-96. He chaired the Working Group meeting of the Planning Commission at New Delhi on Command Area Development Programme on 22-5-96. Attended the executive meeting of Indian Society of Agricultural Engineers at Punjab Agricultural University, Ludhiana on 22-5-97 and 23-5-97. Participated in the workshop to review and highlight the achievements of the National Agricultural Research Project at Krishi Anusandhan Bhavan, New Delhi on 3-7-96. Attended the meeting of Cauvery water dispute tribunal-Special Committee to deal with Kerala's case before the tribunal—at Chief Minister's Office on 11-7-96. Attended the inaugural function of Karshika mela and exhibition organized by Malayala Manorama in connection with the Award giving ceremony of Karshakasree on 8-8-96. Participated in the discussion meeting held with Executive Committee members and Officers of the Department of Agriculture and local leaders regarding the take over of the Soil Conservation Research Station at Konni on 9-8-96. Participated in the inaugural function of the Central Auditorium by the Hon'ble Minister for Agriculture on 16-8-96. Inaugurated the farmers' day and Agricultural Implements show at Agricultural Research Station, Mannuthy on 17-8-96.

Dr. Michael attended the Organizing Committee meeting of the 56th Annual Conference of the Indian Society of Agricultural Economics at University Headquarters on 19-8-96. Participated in the inaugural function of the symposium on Technological advancement in Banana plantation production and processing - India—International and the inauguration of the FAO/CPC/World Bank aided Banana Improvement Project on 21-8-96. Inaugurated the Onam Bazaar at Sales Centre, Mannuthy on 21-8-96.

The Vice-Chancellor delivered the Raveendranath Tagore Memorial lecture on the topic 'Agricultural Engineering in the 21st Century-Challenges 'and strategies at Agricultural Engineering College, Dharwad, Karnataka state on 6.9.96.

Attended meeting convened at Tamil Nadu Agricultural University, Coimbatore, on a joint proposal of Kerala Agricultural University and Tamil Nadu Agricultural University on 'sustainable agricultural research and development centre for South India' with the assistance from Government of Japan on 30-10-96.

Dr. A. M. Michael chaired the meeting of the Task Force for Research, Education and training under the Steering Committee for Agriculture of State Planning Board on 15-11-96. Attended the first meeting of the Expert Committee to provide guidance, modalities and initiation of IXth Plan Research programmes under the ICAR on 2-12-96, 3-12-96 and 4-12-96. Attended the meeting of the Task Force on Agricultural Research, Education and Training at State Planning Board, Thiruvananthapuram on 18-12-96. Participated in the foundation stone laying function of Pineapple Research Station, Vazhakkulam on 20-12-96. Participated in the Annual Day Convention of Vidhyadhi Raja Vidhya Mandir, Ankamaly as Chief guest on 21-12-96. Attended the kissan mela at Cherupuzha on 23-12-96. Attended the inaugural function of the Sales Centre of Kerala Agricultural University in Fisheries Sub Centre, Calicut on 28-12-96. Attended the Task Force meeting of Agricultural Research, Education and Training at State Planning Board, Thiruvananthapuram on 1-1-97. Participated in the inauguration of the 56th Annual Conference of the Indian society of Agricultural Economics at Kerala Agricultural University Headquarters, Vellanikkara, by Dr. Y. K. Alag, Hon. Union Minister for Planning. Chaired the Research Advisory Committee of the Central Agricultural Research Institute, Andaman and Nicobar Islands, Port Blair on 7-1-97. Participated in the Accreditation Committee meeting of Indian Council of Agricultural

Research on 13-1-97 at New Delhi. Attended the meeting of the state Award Committee for selecting the awardees for the year 1995-96 in different fields of Agriculture on 5-2-97. Attended the meeting of State Planning Board regarding the Nineth Five year plan and Annual Plan of the University on 5-2-97.

Attended the meeting on Inter-State Water Dispute and Cauvery Water in particular scheduled to be held at Office of the Chief Minister on 25.2.97 at Thiruvananthapuram. Attended the meeting convened by the Hon'ble Minister for Agriculture regarding the starting of a Vety. College at Wayanad on 19.3.1997.

The Vice-Chancellor served as a member of the Governing Body of ICAR, New Delhi, Kerala Forest Research Institute, Peechi, Centre for Water Resources and Management, Kozhikode, Science & Technology and Environment Committee, Thiruvananthapuram, Tropical Botanical Garden and Research Institute, Palode, Thiruvananthapuram, and State Institute of Languages, Thiruvananthapuram.

The Vice-Chancellor visited the Indian Council of Agricultural Research, New Delhi in connection with University work on 16.4.96, 17.4.96, 18.4.96, 19.4.96, 21.5.96, 16.9.96, 17.9.96, 10.2.97, 11.2.97, 12.2.97 and 13.2.97.

The Vice-Chancellor visited College of Fisheries, Mangalore, University of Agricultural Sciences, Dharwad, Tamil Nadu Agricultural University, Coimbatore, Tamilnadu Vety. & Animal Sciences University, Madras, Central Plantation Crops Research Station, Kasaragod and Regional Centre of Central Plantation Crops Research Institute, Kayamkulam, Centre for Water Resources Development and Management, Kozhikode, Central Food Technological Research Institute, Mysore. He visited the Central Agricultural Research Institute, Port Blair, Andaman & Nicobar Islands.

Dr. A. M. Micahel, Vice-Chancellor, served as member of the Selection Committee for higher posts constituted by the Agricultural Scientists Recruitment Board, New Delhi. He had also served as member of the Selection Committee constituted for selection of higher posts by the University of Agricultural Sciences, Bangalore during the period. He served as expert member on the selection committee of the Central Tuber Crops Research Institute, Sreekaryam, Thiruvananthapuram.

The Vice-Chancellor visited the Krishi Vigyan Kendra, Manjeswar, Regional Agricultural Research Station, Pilicode, College of Agriculture, Pilicode, College of Agricultural Engineering & Technology, Tavanur, College of Vety. & Animal Sciences, Mannuthy, College of Horticulture, Vellanikkara College of Forestry, Vellanikkara, Directorate of Extension, Mannuthy, Central Training Institute, Mannuthy, College of Co-operation, Banking and Management, Mannuthy, Agronomic Research Station, Chalakudy, College of Fisheries, Panangad, Banana Research Station, Kannara, Medicinal and Aromatic Plants Research Station, Odakkali. He visited the Pineapple Research Station, Vazhakkulam, Cattle Infertility Centre at Calicut.

The Vice-Chancellor met and discussions were held on University matters with the Hon'ble Pro-Chancellor and Minister for Agriculture and the Hon'ble Chief Minister of Kerala during the period under report.

Education and Research

1. FACULTY OF AGRICULTURE

1.1. COLLEGE OF AGRICULTURE, VELLAYANI

College of Agriculture was established in the year 1955 at Vellayani, about 12 km. south of Government Secretariat Thiruvananthapuram on the banks of Vellayani lake. College campus has a total area of 243 hectares including 165 hectares of 'Kayal' land.

- Dr. C. Sreedharan continued as Dean of the Faculty of Agriculture and Head of the Institution.
- Dr. K. M. Rajan, Professor has continued as the Research Co-ordinator of F. R. C.

The College functioned with following 14 departments carrying out teaching, research and extension activities.

Department of Agronomy

Department of Plant Physiology

(Department of Agrl. Botany has been merged in the Department of Plant Breeding)

Department of Plant Breeding & Genetics

Horticulture

,,

- ., Soil Science and Agrl. Chemistry
- , Plant Pathology
- " Agrl. Entomology
- ., Agrl. Extension
- .. Home Science
- ., Agrl. Economics
- ., Agrl. Statistics
- ,, Animal Husbandry
- ,, Agrl. Engineering
- " Physical Education

Staff position

a) Scientific staff

Department and	Sanc-		
Designation.	tioned	In position	Vacant
	2	3	4
Agronomy		The second second	
Professor	1354	2	4 <u>44</u> 1
Assoc. Professor	3	5	_
Asst. Professor	2	1	_
Agrl. Chemistry	1815	, t _i	> 5
Professor	3	4	
Assoc. Professor	. 2 ,	٠. 3	<u>_</u> -
Asst. Professor	. 6	4 🔻	<u>, —</u>
Plant Breeding and Gen	etics	* * * * * * * * * * * * * * * * * * *	, T
Professor	4	3	** ** ** *****
Associate Professor	2	4	. —
Assistant Professor	'9 '	4_	-
Plant Physiology			
Professor	2	<u> </u>	. 2
-	v.)—	1 4	<u> </u>
Asst. Professor	1		
Horticulture			•
Professor	2	i	1
Associate Professor	-	- 6	*. _
Assistant Professor		4	3
Agrl. Entomology		-	
Professor	6 ~	6	
Assoc. Professor	3	r 4	. '2
, Asst. Professor	3	11 10	·2
Plant Pathology		7	
	· , 6	6 -	
Assoc. Professor	,, c, 5	+ 1 7 2*	
Asst. Professor	_	2 .	3
Agrl. Extension		□ ,.	U
Professor	1.	2	
Assoc. Professor	4	4* 5. •	_
Asst. Professor	3	9 1 9.	_ 2
	-	1 (*)	4
Agrl. Economics	_	.fa.n	
Professor	1.	1	
Assoc. Professor	1		1
Asst. Professor	3	- 3	· —

1 1 5 1 2 8 2 1 2 3 14			1 1 1 2 8 2 1 2 2 2		Tress	1 4
1 2 8 2 1 2 3			1 1 2 8			
1 2 8 2 1 2 3			1 1 2 8			
1 2 8 2 1 2 3		· ·	1 1 2 8		Territoria	
1 2 8 2 1 2 3		٠.	1 1 2 8			
1 2 8 2 1 2 3		٠.	1 1 2 8			
1 2 8 2 1 2 3		٠.	1 1 2 8			
1 2 8 2 1 2 3	115	··.	2 8 .			
2 8 2 1 2 3 3	115		2 8 .			
2 8 2 1 2 3 3	11.50	٠.	2 8 .			
2 8 2 1 2 3 3	11.00	er ,	2 8 .			
2 1 2 3 3	11.50		2	•		
2 2 3	11.00	<u>.</u>	2	•	, . 	
1 2 3	11.5.	.·· .	1		, . •	
1 2 3	115.	** .	1	e e e e e e e e e e e e e e e e e e e	· * *.	_, -
3	115.	era .	1 2 2	* . *		<u> </u>
3	1/2		·2 2	** a		
3	1, 4		2	-		
	4		4	-		1 7 7
14	1					1 -
14				·	,	er rest
* <u>*</u>			10	, 0° 0	47.5	4 -
12			8	****	, ;	4
24	_		20 , o		٠. :	4
ng st	aff			** . * <u>*</u> *	1	974
				T0 11 45	. ••	• .
1			1		;	^ -
9			9	$y_{2} \in {}^{r}$	- (
24.	1		21		٠.	3 .
-			5	٠.	-,	·-
6			6		2	
9.	,		-8			1
26			26	, .	i . Sagara	<u>-</u> .
18			15.			3 ~ .
					-	· *¿,
	, s	· ` · · · · · · · · · · · · · · · · · ·	111 5.1	, ,	:	11 L
		N	Vil _		. ,	
iff/D	e p utat	tion	of s	taff fo	r h	ighe
	9 24 5 6 9 26 18	9 24.55 6 9 26 18 gramme:	9 24.5 5 6 9 26 18 gramme:	9 9 24 21 5 5 5 6 6 6 9 8 26 26 18 15 gramme: Nil Nil Nil Nil	9 9 24 21 5 5 5 6 6 8 9 8 26 26 18 15 yramme: Nil Nil nff/Deputation of staff for	9 9 24 21 5 5 5 6 6 6 9 8 26 26 18 15

Details of participation of scientist in seminars/workshop/training/symposia/summer institute etc.

Name and Designation	Type of course	Venu	e Period
Dr. P. B. Usha, Asst. Professor,	Summer Institute	J.N.K.V	.V.November ur 1996
Soil Science & Agrl. Chemistry			•
Dr. Ushakumari, Asst. Professor, Soil Science.	do `	đo	do
Dr. Prabhakumari,	National work	T.N.A.U	July, 1996
Asst. Professor, Soil Science & Agrl. Chemistry.	shop	Coimba	
Dr. V. L. Geethakumari Assoc, Professor of Agronomy	Summer Institute	do	. do
Dr. P. Santhakumari Assoc. Professor of Plant Pathology	do	do	do
Dr. V. K. Girija Asst. Professor of Plant Pathology	do	do	do
Dr. A. Naseema, Assoc. Professor of Plant Pathology	do	, do	đo
Dr. K. M. Abdul Khade: Asst. Professor of Plant Breeding	r do	do	6/11/1996 to 20/11/1996
Smt. C. Lekha Rani Asst. Professor of Plant Breeding	do .	` đo	do
Dr. R. Gopimony, Professor & Head, Plant Breeding	National Ban Seminar	galore	, 3 dayş

Involvement of staff in Academic Programmes

Sixty one regular courses were offered to the UG and the PG students. Three students were awarded Ph.D. Degree and 10 students were awarded M.Sc. (Ag.) degree during the period under report.

Farm Revenue

Year	Receipts	Expenditure
•	(in lakhs)	(in lakhs)
1996-97	39,60087	1,96,54,310
Important visitors		
Name & address	Purpose of visit	Date of visit
Sri. V.K. Rajan	For inagurating	31/7/1996
Hon. Minister for Agriculture	the Students Union	•
Sri. P. J. Joseph	For inagurating/	16/10/96
Hon. Minister for	the Kisan Mela	į.
Education & Revenue	'Nirapara'	*

1.2 COLLEGE OF HORTICULTURE, VELLANIKKARA

The College of Horticulture was established in the Mannuthy Campus on 28.10.1972. The College was shifted to the main campus in November, 1977. The college has an Instructional Farm for imparting practical training to students and also for undertaking faculty research activities.

To start with, only 20-students were admitted for the four year B. Sc. (Hort) degree programme (12 trimesters). student admissions for this programme number of increased to 30 from 1976-77 and again to 40 from 1979-80. The B. Sc. (Ag) programme was introduced from the academic year 1977-78 with an intake of 50 students. The curricula of the B. Sc. (Ag) and B. Sc. (Hort) programmes were unified in 1980-81 and the latter course discontinued. The intake for the B. Sc. (Ag) programme was consequently increased to 75. Master's Degree programme was started in 1976-77 in six disciplines, namely, Horticulture, Agronomy, Agricultural Botany, Agricultural Chemistry, Agricultural Entomology and Plant Pathology. From 1979-80, Ph. D. programmes in Horticulture in these six departments were started. In addition. Masters' programmes in Agricultural Economics and Agricultural Engineering were also commenced during this year. The P. G. Diploma Course in Natural Rubber Production was started in 1979-80 and offered upto 1982-83. After a break of 7 years, the programme was revived in 1990-91. The M. Sc. (Ag. Stat.) was started during the year 1978-79. A programme for M. Sc. in Agricultural Economics was commenced during The M. Sc. programme in Food Science and Nutrition was started during the year and two students were

admitted. The World Bank funded Kerala Agricultural Development Project was launched in April, 1977 to conduct fundamental, applied and adaptive research in coconut, cashew, cocoa and pepper. The project was terminated in March 1986. The Radio Tracer Laboratory came into existence in June, 1982 under the KADP.

There are at present 15 departments in the College, namely Pomology and Floriculture, Plantation Crops and Spices, Olericulture, Processing Technology, Agronomy, Agricultural Botany, Soil Science and Agricultural Chemistry, Agricultural Entomology, Plant Pathology, Agricultural Economics, Agricultural Extension, Agricultural Engineering, Agricultural Statistics, Agricultural Meteorology and Physical Education.

An instructional Farm having an area of 95.35 ha was established in February, 1988 to provide facilities for intensive on-farm practicals and work experience for students and faculty staff.

Staff poistion

a. Scientific staff

Dept./Scheme/Designation	No. of posts			
	Şançtioned	In position	Vacant	
1	. 2	,3 -	4	
Associate Dean	: -1	1 -2	<u> </u>	
Agronomy	•		•	
Professor and Head	1	_	1	
Professor	1	1		
Asst. Professor	5	3	2 `	
AICRP on Weed control		•		
Assoc. Professor	1.	1.	′	
Asst. Professor	2	- 2	— `	
Agrometeorology				
Professor and Head	1 '	ì		
Asst. Professor	2	1	-	
AICRP on Agrometeorology	_			
Assoc. Professor	1	. 1	•	
Agrl. Extension		-	•	
Assoc. Professor	, 1	1	— ,	
Asst. Professor	3	1 2	1.	
Agrl. Economics				
Professor and Head	1	1	_	
Assoc. Professor	1	1	<u>. </u>	
Asst. Professor	5	1 -	4	

1	, 2	3	4
Agrl. Engineering			
Professor and Head	r 1 ·	_	1
Asst. Professor	3	2	1
Agrl. Entomology		3 * *	
Professor and Head	1	1.	
Professor (Nem.)	1	***	1
Assoc. Professor	. 1	1	_
Asst. Professor	3	2	J
AICRP on BCCP & W			
Assoc. Professor	1	1.	
Asst. Professor	1	1	A
Agrl. Statistics		••	-
· Professor and Head	1	1	
Assoc. Professor	1	1.	
Asst. Professor	6	3	3
Home Science			
Asst. Professor	4 .:	3.	1
Plantation Crops & Spices	- (1	
Professor and Head	1	1.	
Asst. Professor	7	7.	_
PG Dip NRP	_ _	,	
Asst. Professor	1	1.	_
	•	•	
Manpower Devpt. Scheme of Asst. Professor	l Conee	1.,	·
	1	1,,	
Plant Pathology	_	•	
Professor and Head	. 1	1	_
Assoc. Professor	. 4	1 ·	3
Asst. Professor	· 6	2	4
Pomology & Floriculture	Ç 2	,	
Professor and Head	, 1		1
Asst. Professor	- 7	7	_ ,
AICFIP		• •	
Assoc. Professor	. 1	1.	_
Asst. Professor	· 2	2,	
Processing Technology		4.	
Professor and Head	1	1	
Asst. Professor	, <u>3</u>	2 .	<u>ן</u>
	:	•	Γ,
Plant Breeding & Genetics Professor and Head	. 1		1
Asst. Professor		2 .	· · 3
10149201		· · · · · · · · · · · · · · · · · · ·	

· 1	2	3	4
Physical Education			
Asst. Professor	1.	. 1	—
Olericulture			
Professor and Head	1	1 .	
Assoc. Professor	1	1	_ .
Asst. Professor	6	4 ,	2
Vegetable Seed Production Co	omplex		
Asst. Professor	1	1	<u>.</u>
AICVIP		•	
Asst. Professor	3	3	
Soil Science & Agrl. Chemistr	ý		
Professor and Head	1	_	1
Assoc. Professor	4	4-	
Asst. Professor	5	5	· • •
Coconut Nutrition & Physiolog	ical Disor	ders	٠.
Asst. Professor	1	I	
Asst. Engineer	i	1	· · · <u></u>
Instrumentation			
Assoc. Professor	1	1	"
Radio Tracer Laboratory	•	-,	
Professor	1	_	1.
Assoc. Professor (Safety).	1	1.	<u> </u>
Officer)			
Assoc. Professor	1	1	
Asst. Professor	2	2	
AICRP on Medicinal & Aromati	c plants		
Assoc. Professor	1	1.	
Asst. Professor .	2	2	
Cadbury's Cocoa Research pr	oiect		
Professor	1	1	
Assoc. Professor	1	1	_
Asst. Professor	1	1.	<u>·</u>
AICRP on Ornithology			
Asst. Professor	1	1.	
Technical Staff	_		-
Technical Asst.	2		> 1
Junior Programmer	~ <u>4</u>	ii 2	
Proc. Tech. Asst.	1	√ · · · · · · · · · · · · · · · · · · ·	¥.
Technician Sr. Gr.	1	, 1	_
Technician Gr. I	1	, <u>*</u> 1	<u>-:</u>
Technician Gr. II	1	•	

1	2	3	4
Farm Supervisor Gr. I	7	7	
Farm Supervisor Gr. II	2	2	_
Farm Asst. Sr. Gr.	1	1	- .
Duplicator Operator	2	2	. <u>-</u>
Lab. Asst Gr. I	1	2	- .
Lab. Asst. Gr. ll	8 `	ʻ' 8	<u> </u>
Lab. Asst. Gr. III	11	11	 ,
Administrative & Supporting sta	ff		
Administrative Officer	1 ,	1	
Section Officer	5	5	_
Asst. Sel. Gr.	1	1	·
Asst. Sr. Gr.	7	7	
Asst. Gr. I	5	5 ·	_
Asst. Gr. II	3	1	2
Sr. Office Superintendent	` 2	2	
Office Superintendent	1	1	. —
Typist Sel. Gr.	1	1 ,	_
Typist Gr. I	-2	2	_
Typist Gr. II	2	, 2	
Peon Hr. Gr	1	1	
Peon	8	·	
Driver (LDV)	4	4	
Driver (HDV)	2	2	_
Matron	1	1	
Hostel Manager Collich	- 1.	1	,
Hostel Manager Coll. Who	1	<u> </u>	. '
Ref. Asst.	. 1	- • 1	 .
Technical & Administrative staff	attached	to schemes	
AICRP on weed centrol			
Farm Asst. Gr. I	2	2	
Driver (LDV)	1	1	
Class IV	l	l	_
AICRP on BCCP & W			
Sr. Tech. Asst.	_1	1	
Technical Asst.	1	1	_
Farm Asst.	2	2	
AICRP on Medicinal & Aromati	c plants		
Farm Asst. Gr. I	2	2	
Field Man	1	1	
Lab. Asst.	1	1	
Class IV	1	1	, —
Clerk-cum-Typist	1	- [1	والمنهابة المالا

1		1	2	3	4
AlCVIP		,		1	
Farm Asst.	Gr. I	•	2	; ` ż	_
PG Dip NRP				7	
Farm Super	rvisor Gr.	Ĭ	1	1	<u>′</u>
Coconut nutriti	on & ph y si	oloģic	al disc	orders	
Lab. Asst. (1	1.	, - <u>u</u>
Lab. Asst. (Gr. II		2	2	_
Driver	_	,	1	. 1	· · · · ·
Vegetable seed	d production	on cor	nplex	1	No. of the second
Farm Supe: Farm Asst.	rvisor		I	1	_ _
raim Asst.	-		3	1	2
Faculty Impro-	vement Pr	ogram	me		o ·
New posts sand		_			a di salah
				<u> </u>	, , , ,
Post created/ shifted	Discip	line		Place to wlin which c	nich shifted/ reated
Shifted) ' + ' * ' [
	Departm Economi		11911.	iFFCO Chair (Professor) a of Horticultu 15-7-96.	at College
Assistant Professor	Agrl. Eco	nomic	s	College of .	Agriculture,
Scholarships av	varded to				7
studies : Nil		stativate	putan	on or stair for	nigner
Details of summ attended by stat Summer institute	fi-	s/semi	nárs/s	ymposia/Trair	ing
Workshops				ty is the	
Name of Scienti	st	Top	ic & v	enue	Period
1			-		3'''
Dr. K. Mukunda	n	Integr nutrie			21-24 September
Dr. K. T Prasant Dr. A. Augustin Sri A. S. Anilkur		on Me plants	dicina , Raja:	a workshop al & Aromatic sthan College re, Udaipur	8-11 July 1996

1	2	3
Dr. A. V. R. Kesava Rao	Workgroup meeting of AICRP on Agrometeorolog HAU, Hissar	24-25 y July 1996
Seminars/Symposia Dr. P. B. Pillai	National Seminar on 1 climate variability and	8-19 Sept. 1996
Dr. P. B. Pillai & &	predictability at CUSAT Conference on the challenges for banana production and utilization in 21st century, NRCB, Thiruchirapally	- - - 1
Dr. K. Pushkaran	International Symposium on banana, KAU	
Dr.P.V. Balachandran	National Symposium on Agronomy, organised by ISA, HAU, Hissar	11-13 Dec. 96
Sri.P.V.Prabhakaran	Natl. Symp. on Technological advancement in rice production, KAU	17-19 June 96
Dr.P.V.Prabhakaran Dr. P. A. Valsala Dr.R.Kesavachandran	Symp. on Plantation Crops (PLACROSYM-XII) RRII,	27-29 Nov. 96
Dr. P. A. Nazeem Smt. Indira Devi, P.	Seminar on networking Seminar on 'rediscovery co-operation' organised by Institute of Rural Management, Anand	26 July 96 19-21 Nov. 96
Dr. D. S. Rao	Pan Asian Ornithology Congress, TNAU, Coimbatore	11-12 Nov. 96
Dr. Alice Kurian	National Seminar on Augmenting biomass production for mulching in ginger, UAS, Bangalore	9-11 Oct. 96
	n National Symposium on Horticultural Biotechnology Bangalore	28-30 Oct. 96
Dr.P.K.Valsalakumari Dr.C.K. Geetha	•	27-29 Jan.97

, 1	2	3
Dr.V. Indira	Seminar on cardiovascular diseases and nutrition, at Little Flower Research Centre, Angamaly	12-1-97
Dr. A.V.R.Kesava Rao	Optimising management for precision farming— A system approach, University of Florida, USA	10-15 Mar . 97
Trainings		
Dr. P. K. Rajeevan	Computer application in Agriculture, NAARM, Hyderabad	15-27 July 96
	6th Shah Alarm Internationa Orchid exhibition	1 17-24Aug.95
Dr.N.K.Parameswaran	Training on recent advances in Agrl. research management at NAARM, Hyderabad	3-22June 96 1
Smt.Lissamma Joseph Dr. V. K. Mallika & Dr. P. A, Nazeem	Training on Molecular Biology, BARC, Bombay	12-24 Aug.96
Smt. M. R. Bindu	Training on breeding for quality produce, TNAU, Coimbatore	6-20 Nov. 96
Dr.Sally K. Mathew Dr. T. N. Vilasini	Biological control in plant disease management at IARI, New Delhi	Mar-April 97
Sri. Surendra Gopal	Agricultural Electronics at Central Institute of Fisheries Technology	12-20 Feb. 97
Dr.V.S. Sujatha	Recent techniques in Plant Molecular Biology at NRCPB, IARI, New Delhi	25 Feb. to 12 Mar. 97

Involvement of staff in Academic Programmes

Regular classes were held for the undergraduate and postgraduate students as per the programme. The total number of undergraduate students on the rolls were 328 (172 men and 156 women), out of which 69 have completed their degree programme. During the period, there were 66 M.Sc students

and 39 Ph. D. students on the rolls. Twenty six students successfully completed their postgraduate programmes (20 for the Masters and 6 for the Doctorate degree programme) during the period.

RESEARCH

Apart from the PG and departmental research projects there were 44 externally aided projects functioning in the College, four exernally assisted projects were during the period.

Farm Revenue

Planting materials of fruit plants (11689), spice plants (2500), cocoa seedlings (100), hybrid cocoa seedlings (1095), cocoa budded plants (57,299) medicinal plants (22,095) and vegetable seeds (1942 kg) were distributed.

The mushroom unit produced 4592 packets of spawn of 250 g each and 1755 packets of fresh mushroom of 200 g each for distribution through the Information & Sales Centre, Mannuthy.

A variety of processed fruit and vegetable products costing Rs. 1,84,139 were produced in the Department of Processing Technology.

1.3. COLLEGE OF AGRICULTURE, NILESHWAR, PILICODE

College of Agriculture, Nileshwar started functioning on 2.6.1994.

Mandate of the institution

To undertake teaching, research and extension activities in agriculture.

U. G. Studeuts on the rolls as on 31.3.97

1994 - 24

1998 - 29

1996 - 23

Research projects in operation

The evaluation of the efficiency of applied nitrogen in cashew, coconut and cocoa using N-15 technique (ICAR)

Civil Works

The construction works of academic block and two hostel blocks are in progress. A total amount of Rs. 230 lakhs is allocated for the current year. Both the constructions are likely to be completed in another 5 months time. Beautification

works of the adjoining landscape is also in progress. A crop museum demonstrating various crops is also being laid out. Perennial fruit crops were planted in the instructional farm and both hybrid and local varieties of coconut seedlings were produced and distributed to farmers.

Total expenditure : Rs. 54,719 lakhs
Total receipts : Rs. 14,212/-

1.4 COLLEGE OF FORESTRY, VELLANIKKARA

The College of Forestry was formally inaugurated on 27th October, 1986 along with the inception of four year B.Sc. (Forestry) programme. The College is presently functioning at Vellanikkara. Sri. Nagesh Prabhu took over as Special Officer on 16/8/1993 and continued upto 20/4/94. Dr. S. Chinnamony was the Special Officer from 20/6/94 to 16/11/94. Dr. P. A. Wahid took over as Special Officer on 16/11/94 and continued upto 15/4/95. Dr. A. I. Jose took over as Associate Dean i/c on 16/4/1995 and continued for the rest of the period under report.

Academic position as on 31/3/97

Designation	Sanc- tioned	In position	Vacant
Scientific staff			
Associate Dean i/c	,1	1.	_
Associate Professor	2	2	<u> </u>
Associate Professor (NC)	4	4	
Assistant Professors	7	5.	2
Administrative & Supporting	staff		•
Administrative Officer	1.	i=1:	
Section Officer	1	1	_
Gr. II Assistant	3	2	1
Sr. Office Supdt.	1	1	_
Office Supdt &			
Steno to Assoc. Dean	1	1	

1.5 COLLEGE OF CO-OPERATION, BANKING & MANAGEMENT, MANNUTHY

The Co-operation and Banking programme with an intake capacity of 50 students was started on 16th November 1981, at the Radio Isotope laboratory in the Main Campus, Vellanik-kara, under the control and supervision of Associate Dean,

College of Horticulture. The venue was shifted to Directorate of Extension in May 1982, keeping the administrative control still with Associate Dean, College of Horticulture. The programme was delineated from the College of Horticulture and started to function as a separate College under the name 'College of Co-operation and Banking', Mannuthy from Ist April 1985 onwards. The intake capacity of the undergraduate programme was reduced to 25 from 1989 batch onwards. Now the college is offering one under-graduate programme, B.Sc. (C & B) and three post graduate programmes with specialisation in Rural Marketing Management, Rural Banking and Finance and Co-operative Management.

Dr. M. Mohandas, Associate Professor continued to function as the Associate Dean i/c.

Academic position as on 31/3/97

Department & Designation	Sanc- tioned	In position	Vacant
Associate Dean	1.	<u> </u>	1
Rural Marketing Managemen	nt `		•
Professor	l·		· ´ı
Associate Professor	2.	1.	1
Assistant Professor	5.4	5.	
Development Economics		•	
Professor	t r		1
Associate Professor	1.	ľ.	_
-do-			
(Quantitative Methods)	1	1	_
Assistant Professor	5	5 ,	
-do- (Ag. Stat)	. 1	1	<u> </u>
Co-operativè Management		,	
Professor	1.	<i>'</i> —	1
Assoc, Professor	2-	1	1*
		(*upgrad	ed as Prof.)
Asst. Professors	5	5 .	- -
Rural Banking & Finance Ma	anagement	** '	
Assoc Professor	1		1
Assistant Professor	5 (, 4	1

Changes in Academic position during the period.

One Assistant Professor in Computer Science joined and one Assistant Professor in Rural Banking left the service.

Para-technical/Administrative/Ministerial/Supporting Staff/positions

Name of post	Sanctioned	In position	Vacant
Administrative Officer	1	' 1	
Section Officer	2	. 2 -	. `—
Senior Office	5	_	
Superintendent	7 1	. 1	
Assistants	6 -	6	
Typists	3,	. 3	
Reference Assistant	Ī.	1	· . —
Duplicator Operator	1	: 1	— · · · · · · · · · · · · · · · · · · ·
Driver	i	1	- · · · · · · · · · · · · · · · · · · ·
Peons	2 ·	2	. '
Hostel Manager	· 1	1	· · : <u> · ·</u> · ·

Education

Students Statistics

i) U. G. Programme (on rolls)

Year of Admn.	Men	Women	Total
1992	14	8	. 22
1993	17	9	[*] _ 26
1994 _:	11	. 8	. 19
1995	· 13	14	27
P. G. Programme (on table)			
1992	0	1	. 1
1994	2		2.
1995	1	1	. 2
Ph. D. Programme (on table)		,1*	i i
1995	1	·	1500 I .
Students who completed the c	ourse d	luring the pe	eriod
B. Sc. (C & B)	6	6	12
M. Sc. (C & B)		_	_

Research

Besides the project work done by the undergraduate/postgraduate students, the colleges has also undertaken a number of sponsored research projects during the period under report.

Research projects in operation

- i. Externally funded projects: 2 (3 more projects sanctioned)
- ii. P. G. projects : 6
- iii. Ph. D. projects : 3

Details of Scientists participated in Seminars / Workshops/ Summer Institutes:

Dr. M. Mohandas submitted papers at 56th Annual Conference of the Indian Society of Agricultural Economics held at KAU from 2 to 4 January, 1997.

Dr. M. Mohandas and Dr. K. P. Mani presented paper at National Workshop on Banana held at KAU.

Dr. M. Mohandas - 'Food Intake and Poverty' paper sent to the International Conference in Development of Kerala at India International centre, Delhi in December '97.

- Dr. N. Ravindranathan presented paper and attended World Poultry International Seminar from 2 to 5 September '97 at New Delhi.
- Dr. N. Ravindranathan presented paper on Stockastic Process in International seminar at Cochin University of Science and Technology in December, '97.

Summer Institute/Orientation programme

Sri. Philip Thomas and Miss Sunanda attended Summer Institute at JNU. Dr. Molly Joseph attended 3 weeks Orientation programme on women at Tata Institute of Social Science Research Institute.

Works-Progress of works:

Civil works : Rs. 75 lakhs (approx)

Farm development : Not applicable

Procurement of equipment: Rs. 4.26 lakhs (LAN Server,

Multimedia System, Nodes

Pentium) of which Rs. 3.83 lakhs

paid during the period.

Miscellaneous:

Radio talks/Doordarshan

': 2

2. Procurement of Library books : 425

: 5

3. Procurement of journals :

Total expenditure Rs. 17.2384 lakhs.

1.6.1 Southern zone

i) REGIONAL AGRICULTURAL RESEARCH STATION, VELLAYANI

The Regional Agricultural Research Station for the Southern Zone has been functioning at Vellayani since February, 1982. Apart from the continuing research activities under the NARP Phase I and Phase II (and the re-prioritised thrust areas), the station implemented 32 externally aided research projects

comprising five All India Co-ordinated Research Projects, six ICAR ad hoc schemes, eight STED projects, one DBT project, one International project on soil reference collection and data base aided by ISRIC, Wageningen, one Potash Research Institute project, one Pilot project on Tissue Culture funded by Department of Agriculture, Government of Kerala, one NWDPRA project, one SEARCA project, one Employment generation programme for SC women funded by Government of Kerala, one Food processing project funded by Ministry of Food processing Industry, Government of India, one continuous training on technical and income generating activities for women funded by DST, Government of India, one CDS project, one KAU RRII project, one Emeritus Scientist's project and one DST project on Agro meteorological advisory services.

Mandate

Conduct of location-specific research on the field problems relating to tuber crops as well as development of suitable technology for the farming system (s) in the different agroecological situations of the zone and multitier cropping systems suited to the different homesteads were the main research responsibilities, in addition to testing and verification of research results on pulses, oil seeds, cereals (rice), coconut, banana, pepper etc.

The mandate was re-examined and the thrust areas of research re-prioritised.

Lead functions

Research on crops for partial shade conditions.

Export-oriented vegetable and cut flower production.

Staff position as on 31/03/1997

Name and address of Head of Station: Dr. P. D. Vijayagopal, Associate Director of Research.

Scientific

Cadre	Sanc- tioned	In position	Vacant	Date from which vacant
1	2	3	4	5
NARP Phase I				
Associate Director	1	1		1,
Assoc. Professor	3	2*	1	
Asst. Professor	6	4**&	1	Post shifted to RARS, Kumarakom vacant from 17-12-96

1	2	3	4	5	·
NARP Phase II	-	 -		<u> </u>	
Asst. Professor	4	. 3@	i `	Study le	ave
AICRP (Forage crops)	•	111	_	-,.uu, 10	
Assoc. Professor	1	.1 .,			
Asst. Professor	4	4	_		
AICRP (Nematode pests)		- •			
Assoc. Professor	1	1			
Asst. Professor	2	2&			
AICRP (Pesticide residue	_				
Assoc. Professor	1	1&			
Asst. Professor	3	. 10		_	
AICRP (Honey Bees)	•	٠.			
Assoc. Professor	I	1	•	Y	
Asst. Professor	1	1,			
ICAR adhoc scheme on H					
Research Associate	omest 1	ead agroid	restry		
,			_		
ICAR adhoc scheme on e	pidem	norogy of p	oney ib	ee disease	in
Kerala and its manageme Research Associate	_	Ó			
Apiculture Assistant	2	2 ·			
	1	. 1 ,	_		
ICAR adhoc scheme on A Research Associate				ి. జీ. -	
	1	I .	_	•	
ICAR adhoc scheme on D	eveloj	pment of so	oya rice	blended for	ood
recipes	~0 .	_ ′			
Research Associate	2	2:	-		-
DBT Project on rhizobium	-pulse	e associati	on	•	
Jr. Res. Fellow	1	1,	_	•	
STED Project on recyclin culture Technology:	g of	vegetable	garbag	e by Ver	mi-
Research Associate	1	1.	_		
STED project on identity	of Phy	tophthora	affectine	coconut a	and
pepper and their biologic	al cor	atrol	,	,, ·	
Research Fellow	1	1		0	
AICRP on Soil Tillage					
Asst. Physicist	1	l.,	J		
Research Associate	1	_	1		
Employment generation p	rogra	mme for S	C wome	n	
Research Assistant	1	1.	520		
DST Project on contin u ous	trair	ning on to	echnical	and Inco	me
generating activities for w	nman		- Janii Cai	and mico	711C
denerating activities for w					

1	2	3	4	5
KAU-RRII project on copper fungicides on ec tracts of Kerala and Tam	osysten			application of ober growing
Res. Associate	3	3	<u></u>	1
Res. Assistant	1		1	
# One post held by * Two posts held by ** One post held by (NC)	Profes Prof. a	sor ind rema		•
 @ After the shift of & Assoc. Prof. (NC) — One post provision 	holding	one post		
b) Technical staff (sche	me-wise)		
NARP Phase I				
Farm Assistant (Agri.) Gr. I	3	3	 1 (C	F. S. Gr. I F. S. Gr. II ne WA in IF.)
Lab Assistant Gr. I	1	1		(Gr. II)
Photographer	1		, 1	
Duplicator Operator	· 1	1		(H. Gr.)
Other schemes		Ç. Ç.		
Providing Information ba (Data base system) — Pl	an`			
Technical Assistant	1	1 '		
Farm Assistant Gr. II Lab. Assistant Gr. II	1	1 ·	<u>,</u> 1	
AICRP (Pesticide residue Lab. Assistant Gr. III		2		
AICRP (Forage crops) Farm Assistant Gr. I Farm Assistant Gr. II Lab. Asst. Gr. III	1 2 1	1 2	_ _ 1	Sr. Gr. F. A. Gr. I
AICRP on honeybees Farm Assistant Gr. I Lab. Assistant Gr. II	1 1	. 1	 — —	Sr. Gr.
AICRP on soil tillage Lab Assistant Gr. III	1	'n		- r

Administrative & Supporting	ng staff	(Scheme	e-wise)		
NARP Phase I		•			
Administrative Officer	1 .	1 '			
Section Officer	2	2	_		
Sr. Office Supdt.	1	1			
Typist Grade I (Steno)	1.	. 1	_	Office	Supdt.
Typist Grade I	2	2	- '	2 Gr.	
Assistant Grade I	2	2		Gr. I &	Sr. Gr.
Assistant Grade II	2	. 2	_	2 Sr. (
Driver (LDV) Grade II	3 .	.3	_	2 Hr.	
Class IV	1	1	_	A	
•	-	-			**.
NARP phase II	,	1	-	ma	
Assistant Gr. I	1	1		The po	
					r. I & II
$\mathbb{Z}^{(n)} = 0$	ı	•	•		been
				shifted	•
Registert Cu II	1			Phase	1
Assistant Gr. II	<u>1</u>	_			
Other Schemes			3 1 ⁷ ,		
San	ctioned			acant Re	emarks
		pos	ition		
AICRP (Forage crops)				•	
Assistant Grade II	310		1 -	Sr. G:	r. Asst.
Typist Grade II	v1		1 -	_	
Peon	1	,	1 -	Class	IV
AICRP on soil tillage					
Peon	1		1 -	_	1 4
Faculty Improvement Pro	gramm	ie ;			
New post sanctioned/crea	-				*
Details	Scheme	Project		Rema	rks
Assistant Professor	NARP	Phase-I	Po	st, shift	ed to
(Soil Sci. & Agrl. Chem.)				RS,	
-				marakon	n
		•		om 17/12	
Class IV Employee	AICRP	on Soil		st create	
= -	Tillage				6/1996)
	AICRP		•	st create	•
	Riokr Soil Til				•
		_		om 19/6	
•		roject (pr			
	_	ormation	•	rom 3/10	n(1886)
		r the rec			
	Jata, ba	se syste	m) 		

Scholarship awarded to staff/Deputation, of staff for higher studies:

- a. Scholorship awarded to staff Nil
- b. Deputation of staff for higher studies

Name & Designation	Institution to which `deputed	Remarks
Smt. N. Anitha Assistant Professor Department of Entomology, College of Agriculture, Vellayani.	Kerala Agricultural University	For undergoing Ph.D. programme from 30/12/1996
Smt. P. C. Jessykutty Assistant Professor Department of Horti- culture, College of Agricultur Vellayani.	Kerala Agricultural University e,	For undergoing Ph.D. programme
Details of seminars/sy	mposium/training atten	ded by staff
Name of scientist	Seminars/Symposia, venue to which deputed	Period of Deputation
(1)	(2)	(3)
Dr. Abraham Jacob Prof. of Entomology & Sri S. Devanesan Asst. Professor Dept. of Entomology	National Bee keeping Experience-exchange conference organised by ICAR, Punjab Agrl. University, Ludhiana	
Dr Abraham Jacob Prof. of Entomology & Asst. Professor, Dept. of Entomology	Annual workshop on AICRP on Honey bee Research and Training, Punjab Agrl. University, Ludhiana	lst June 1996
Dr Naseema Beévi. S Assoc. Professor Dept. of Entomology	Summer Institute on ''Résearch Manage- ment'' NAARM, Hyderabad	3rd to 22nd June, 1996

(1)	(2)	(3)
Smt Anitha, N Asst. Professor Dept. of Entomology	Summer Institute on "Biocontrol of Insect Pests, Diseases and Weeds", TNAU, Coimbatore	5th to 26th June 1996
Dr Sheela, K. R. & Smt Girija devi, L. Asst. Professors Dept. of Agronomy	Summer Institute on "Advances in weed management in an Agro-ecological context" TNAU, Coimbatore	10th to 19th June, 1996
Dr P. Manju, Dr D. I. Suma Bai Assoc. Professors (NC) Dept, of Pl. Br. and Gen.	Summer Institute on "Rice Genetics & Breeding towards 21st Century in India" RARS, Pattambi	10th to 29th June 1996
Dr L. Rajamony Assoc. Prof. (Hort.)	Technological advance- ments in Banana/plantain production and processing India—International KAU, Vellanikkara	21st to 24th Aug. 1996
Dr M. Achuthan Nair Assoc. Prof. (Agron.)	Agro-forestry group meeting organized by ICAR and TNAU, Colmbatore	26th to 28th August 1996
Dr M. S. Sheela Assoc. Prof. (Ent.)	Recent advances in the Integrated Management of pests and diseases of coconut; CPCRI, Kayamkular	10th to 30th October, 1996 m
Dr K. M. Abdul Khade Asst. Prof. (Pl. Br. & Gen.) and Smt Lekha Rani Asst. Prof. (Pl.Br. and Gen.)	r Breeding for quality produce TNAU, Coimbatore	6th to 20th November, 1996
Dr T. Nalinakumari Assoc. Prof. (Ent.) Dr S. Naseema Beevi Assoc. Prof. (Ent.) and Dr Thomas Biju Mathew Asst. Prof. (Ent.)	7th workshop of All India Co-ordinated Research Project on Pesticide Residues Horticultural and Forestry College, Solan, Himachal Pradesh	29 to 30th November, 1996

Assoc. Prof. (Ent.) and Dr Thomas Biju Methew Asst. Prof. (Ent.)

Involvement of staff in academic programmes
Teaching

The Scientists attached to the Regional Station handled 3s courses with 80 credit hours in various disciplines.

The Scientists attached to the Station also served a: Major Advisors/members of the P. G. Student's Advisory Committees besides offering UG/PG courses.

Farm revenue

Farm revenue for 1996-97 : Rs. 85,480 (upto 31.3.97)

Important visitors

Name and address	Purpose	Date
Dr. H. K. Handa Co-ordinator AICRP on Pesticide Residues	Visit to the scheme AICRP on Pesticide Residues, Vellayani Centre	22.4.96
QRT consisting of four members from ICAR	Monitoring and evalua- tion of AICRP on Forage Crops, Vellayani Centre	21.6.96
Dr. Hazra (Project Co-ord., FC) Dr. Gupta Dr. Kaul Dr. Desai	•	

1	2	3
Dr. Ramanathan	Guest lecture at Vellayani	10.7.96
Dr. S. N. Tripathi Training Officer IGFRI, Jhansi and three Officer trainees	Training for three days	20.3.97 to 22.3.97

ii. CROPPING SYSTEMS RESEARCH CENTRE, KARAMANA

The Cropping Systems Research Centre (CSRC) is located at Nedumcaud, Karamana, 3.0 km South-East of Thiruvananthapuram Central railway and bus stations, easily accessible by road. The station has 7.65 ha land, of which 7.25 ha is double cropped wet land and 0.4 ha garden land.

The centre, formerly known as the Model Agronomic Research Station, was established in 1955 with the objective of conducting simple fertiliser use trials and soil fertility investigations, under the 'fertilizer use and soil fertility project' sponsored by the Indian Council of Agricultural Research. New schemes and projects were started from 1968 onwards under the All India Co-ordinated Agronomic Research Project (AICARP) of the ICAR. From October, 1983 onwards, the station was upgraded as the Headquarters of the AICARP in Kerala, with a unit for conducting Experiments in Cultivators' Fields (ECF).

Mandate

The lead function of the Station is research on rice and rice-based cropping system. The testing and verification functions include multilocational trials and integrated production trials with fish/livestock, poultry; bio-energy conversion and organic recycling, and water requirement of crops.

Staff position

Scientific

Cadre	Sanctioned	In positio	n Vacant
Non-Plan			
Professor (Ag. Bot.)	1 .	_	1
			From 22.12.95
Asst. Professor	2	1	1
•	Assoc.	Prof. (NC)	(Throughout the period)

1	2	3	4
AICARP (ICAR)			
Professor (Agron.)	· 1	1	
Asst. Professor		-	
Soil Sci.	1	1 4	
Statistics	1	1	·
Technical staff (Scheme-wise)	1	- 1	
Non-Plan			
Lab. Assistant	1	. 1.	,
AICARP (ICAR)	•	1	, –
Technical Assistant	. 2		· .
Farm Asst. (Sr. Gr.)	2	_ 2	· Z
Administrative and supporting Non-Plan	statt (Sche.	me-wise)	
Administrative Assistant	٠, ١,	1	
Senior Grade Assistant	i	. , 1	
	-	i	
	,		
Peon (Hr. Gr.) Chowkidar	1		- 1
Peon (Hr. Gr.) Chowkidar	1 . 1	· <u>·</u>	1
Peon (Hr. Gr.) Chowkidar Part-time Sweeper	1 1	1 3	
Peon (Hr. Gr.) Chowkidar	1 1	1	1 -

Faculty Improvement Programme

New post sanctioned/created/shifted : Nil

Scholarship awarded to staff/deputation of staff for higher studies: Nil

Details of Seminars/Symposia/Training attended by staff

Name of scientist	Seminars/Symposia/ venue to which deputed	Period of deputation
Dr. G. K. Balachandran Nair, Prof. (Agron.)	National Symposium on Technology Advance- ment in Rice, KAU, Vellanikkara.	17th to 19th June, 1996
Dr. K. K. Sulochana Assoc. Prof. (Pl. Path.)	Winter school on Remote Sensing in Agriculture with special emphasis on Crop stress detection and Management, IARI, 'New Delhi.	9th to 31st December, 1996

Involvement of staff in academic programmes

Dr. G. K. Balachandran Nair, Professor and Head, CSRC Karamana continued to serve as the Major advisor of on M. Sc. (Ag.) student in Agronomy.

Dr. K. K. Sulochana, Assoc. Prof. (Pl. Path.) continued t hold charge of the farm. She was also in charge of mushroom training proposed for unemployed youths and housewives, in addition to rendering farm advisory service and guiding one PG student at Vellayani.

All scientists attended the NWDPRA programmes.

Important visitors

Purpose	Date
Monitoring and evaluation of the AICARP Scheme	13/9/1996 to 15/9/1996
-do-	-do-
-do-	-do -
-do-	-do-
	Monitoring and evaluation of the AICARP Scheme -do-

Farm Revenue

Year	Receipts (in lakhs)	Expenditure (in lakhs
1996-97	1,12,422	18,49,983

iii) COCONUT RESEARCH STATION, BALARAMAPURAM

The Coconut Research Station was established in January 1948 with 38.18 acres of land at Pachalloor, near the College of Agriculture, Vellayani as a scheme partly financed by the Indian Central Coconut Committee. The scheme was terminated during December 1962. Later, during the third Five Year plan (in 1963-64), the venue was shifted to a 14.13 ha plot of garder land at Kattachalkuzhy, 4.0 km. south of Balaramapuram on the Balaramapuram—Vizhinjam road. The station was taken over by the Kerala Agricultural University in February 1972. The site at Kattachalkuzhy represents the typical red loam soils of South Kerala and the area is protected by barbed wire fencing.

The main objective of the station is to conduct research on coconut in typical red loam soils of the Vellayani series under the Neyyattinkara-Vellayani soil association with particular emphasis on the agronomic and plant protection aspects.

The thrust areas of research is the manurial, agronomic and plant protection aspects relating to coconut in red loam soils.

Mandate

Lead functions

Agrotechniques for coconut based farming system in red loam soils. Intercropping in coconut, pest/disease management in coconut.

Staff position

Scientific

Cadre	Sanctioned	In position	Vacent
Asst. Professor (Pl. Path.) (Prof. & Head)	1	2	One on working arrange- ment
Assoc. Professor (Agro.)	1	1	. <u></u>
Asst. Professor (Agro.)	1	1	

Technical staff (Scheme-wise)

Name of post	Sanctioned po	Vacant	
Farm supervisor Gr. I	1		-1
Farm Asst. Gr. I	1	I	_

Administrative and Supporting Staff (Scheme-wise)

Name of post	Sanctioned po	In Osition	Vacant
Admn. Assistant	1,	1	_
Office Supdt.	1	1	
Assistant Gr. I	2	2 '	
Peon (1	1	
Watchman	2	2	

Faculty Improvement Programme

New post sanctioned/created/shifted

Nil

Scholarship awarded to staff/deputation of staff

for higher studies : Nil

Details of seminars/symposia/trainings attended by staff

Name of Scientist	Seminars/ Symposia/ venue to which deputed	Period of deputation
Dr. G. Padmakumari Prof. (Pl. Path.) and Sri. K. P. Jaganmohan Assoc. Prof. (Pl. Path.)	One day workshoon 'Emerging dis of coconut palms College of Agri- cutlure, Vellaya	seases s 19 Aug: 96
Dr. K. Viswambharan Asst. Prof. (Agron.)	Short term cour in 'On-farm wate Management' at CWRDM, Calicu	December 1996

Involvement of staff in academic programmes

Dr. G. Padmakumari, Prof. and Head continued as the Major Adviser of one M. Sc. (Ag.) student in Plant Pathology and served as a member of the Advisory Committee of another PG student in the College.

Sri. N. Purushothaman Nair also functioned as the Major Adviser of one M. Sc. (Ag.) student in Agronomy.

Farm Revenue

Year	Receipts (in lakhs)	Expenditure (in lakhs)
1996-97 (Non Plan)	7,900	16.131
,, (Plan)	Nil	· 0.582

Publication by staff-Nil

iv) FARMING SYSTEMS RESEARCH STATION, KOTTARAKKARA

The Special Station, Sadanandapuram, Kottarakkara was established under the National Agricultural Research project as per the recommendations of the Research Review Committee of the ICAR for NARP (1979). The acquisition of land required for establishing the station was completed on 26.4.1986 and the station started functioning in a rented building with effect from 14.5.1986. Till then, the scientists of the Special Station,

Kottarakkara worked at the RARS, Vellayani. The major items of civil works completed at the newly acquired site at Sadananda-puram included an Office-cum-Laboratory, a Trainee's Hostel, and four quarters for staff members. The station started functioning in the new building with effect from 23.4.1988. In October 1993, the station was renamed as Farming Systems Research Station.

Sadanandapuram is situated 5.0 km South East of Kottarakkara town along the Main Central Road (State Highway) in Vettikkavala Village, Vettikkavala Panchayath, Kottarakkara taluk, Kollam district. The total area is 8.96 ha, comprising two plots separated by a distance of 250 m. The Plot 1, known as Kshetrakkunnu, has an area of 4.03 ha and the Plot 2, known as Chanthapurayidam, 4.93 ha.

Agroclimatic Situation

The station is situated at an elevation of 95m above MSL and is located at 76° 37'E longitude and 8° 16' N latitude. The available N and K are low to medium, while the available P is low. The texture of the soil is gravelly clay loam.

Mandate

The lead function of the station is research on homestead farming. The testing and verification functions include research on cassava and other tubers, rice, coconut based systems and vegetable improvement.

Staff position Scientific

Cadre	Sancti- oned	In position	Vacant	Date from which vacant
Associate Professor				•
Horticulture	1	1	– ,	
Soil Science	1	1*	,	
Assistant Professor	, -	- •	-	
Entomology	1	-	1	throughout
Pathology '	ʻl	1	<u>. </u>	
Āgronomy	2	1	1	11.4.1996
Economics	1	´ 1	_	
Soil & Water	•		,	
Engineering	·. 1	_	1 '	throughout
Veterinary	1	· — · · ·	l	·

1	2	3	4	5
Technical staff (scheme-wise)				
Farm Asst. (Agri.)	2	2	_	r
Technician Gr. I	1	1	_	
Lab Asst. Gr. III	1		1	throughout
Farm Asst. (Agri.) Sr. Gr.	1 /	1	-	F
Farm Asst: (Vety.) Gr. I	1	1		
Administrative and Supporting	g staff	(Scheme-u	vise)	
Peon	1	· <u>·</u>	1	
Admn. Asst.	1	1	-	•
Asst. Gr. I	2	1	Ι.	
Typist Gr. I	1	1 - 1		

^{*}Assistant Professor holding the post

Faculty Improvement Programme

New post sanctioned/created/shifted: Nil

Scholarship awarded to staff/deputation of staff for higher studies; Nil

Details of Seminars/Symposia/Training attended by staff:

Name of Scientist	Seminars/Symposia/ venue to which deputed	
Dr. S. Ravi Asst. Prof. (Pl. Path.)	One day workshop on emerging diseases of coconut palms, College of Agriculture, Vellayani	19th Aug. 96
Dr. S. Rageena Asst. Prof. (Econ.)	Swadeshi Science Congress, C.M.S. College, Kottayam	7th to 9th Nov. 96

20 training programmes were conducted for SC/ST youths in different topics such as propagation techniques in different crops and ornamentals, pest management in vegetables, plant protection in nursery management, kitchen garden etc. Two batches of unemployed youths were given training in mushroom cultivation. Forty formers were trained in betelvine cultivation, 30 farmers in soil testing and 20 farmers in soil & water conservation techniques during the period under report.

Involvement of staff in Academic Programmes

- Dr. K. Vasanthakumar, Assoc. Professor is the major advisor of an M. Sc. (Hort) student at Department of Horticulture, College of Agriculture, Vellayani.
- Dr. S. Chandini, Assoc. Professor is the major advisor of an M.Sc. (Ag.) student at the Department of Agronomy and member of the advisory committee of one Ph.D. student in the discipline of Soil Science and Agrl. Chemistry, College of Agriculture, Vellayani,
- Dr. S. Rageena, Asst. Professor handled post graduate courses Ag. Econ.609, Ag. Econ.516 and Ag. Econ.508 at College of Agriculture, Vellayani. She is also the major advisor of an M.Sc. (Agrl. Economics) student and member of the advisory committee of yet another Agrl. Economics student.

Farm Revenue

Farm revenue for 1996-97 — Rs. 2,32,900.00

1.5.2 Special zone of problem areas

The zone of problem areas is one of the agroclimatic zones demarkated to represent the geographical area where agriculture is risky, hazardous and exposed to the vagaries of nature. It lies in the coastal line of Kerala State, extending from Kollam district in the south to Malappuram district in the north and comprises parts of Alappuzha, Kottayam, Ernakulam, Thrissur and Malappuram districts covering an area of 5254 sg. The zone lies below the mean sea level and gets flooded during the south west monsoon. The whole area then forms a sheet of water dotted here and there by homesteads, coconut groves, and strips of garden lands. Connected to the sea. the area is subject to ingress of salinity. The salt water infusion into the lands is regulated in Alappuzha and Kottayam districts by Thanneermukkom barrage, Thottappally spill way and Andhakaranazhi and in Thrissur district by the Enammakkal regulator. Kottankottu valavu and Karanchira lock. in Alappuzha district is fed by four main rivers, Meenachil, Manimala and Achencoil which drain into the vast expanse of water called Vembanad lake before merging with The zone is the most thickly populated area the Arabian Sea. The rivers as well as the channel water are polluted by human and animal wastes and by agricultural drainage. The pollution is responsible for the prevalence of many gastro-intestinal diseases. Some of the pollutants such as pesticides and heavy metals find their way up the food chain of the aquatic environment resulting in high concentration of toxic residues, in the body of fishes in the rivers.

Seven distinct farming situations have been identified in the zone., Onattukara, Kayal, Karappadam, Kari, Orumundakan and Kottumundakan, Pokkali and Kole. There are seven research stations in the zone which cater to the research requirements of the different situations.

Name of Research station	Situation in which located		
R. A. R. S. Kumarakom	Karappadam	Kottayam district	
R. R. S. Moncompu	Karappadam	Alappuzha	,,
R. R. S. Kayamkulam	Onattukara	Alappuzha	,,
R. R. S. Vyttila	Pokkali	Ernakulam	,,
AICRP on Agricultural			
Drainage, Karumadi	Kari	Alappuzha	,,
S. R. S. Thiruvalla	Karappadam	Pathanamthitta	11

The thrust areas identified for the zone are:
Reclammation and management of problem soils
Farm mechanisation
Integrated farming involving crop-livestock and fish
Root (wilt) disease management
Seed and nursery production
Resistance breeding in rice
Breeding of rice for salinity tolerance
Improvement of rice under Pokkali conditions
Research on oil seeds, pulses and rice in Onattukara
Rice and fish culture
Sugarcane research
Mangrove research—conservation and management

i) REGIONAL AGRICULTURAL RESEARCH STATION, KUMARAKOM

The Regional Agricultural Research Station is situated at 9° 3' latitude and 76° 3' longitude in the Kumarakom Village of Kottayam district in the southern side of 'Kavanar', 15 kms. north of Kottayam town. The history of RARS, Kumarakom dates back to the year 1947, when the station was established by the Department of Agriculture with the financial support of the then Indian Central Coconut Committee. In 1958, the station was taken over by the State' Department of Agriculture and from 1972 onwards the station is functioning under Kerala Agricultural University. The station was upgraded

as a Regional Research Station for the special zone of problem areas of Kerala in 1982. The land area of the farm, in the beginning, was 23.23 ha. During 1980, an additional area of 21.49 ha of land was transferred to Kerala Agricultural University making the total area of the Station 44.72 ha. The main objective of the station was originally to conduct research on coconut and coconut based farming system with special reference to coconut diseases. However, with the implementation of NARP, the station became the lead station to conduct problem oriented location specific research on all crops in the special zone of problem areas of Kerala State. The main mandates of the station are research on coconut and coconut based farming systems, integrated farming and coconut root (wilt) disease.

Staff position

		No. of posts			
Desigation		Sanctioned	In position	Vacant	
	1,	i. 2	3	. 4	
a)	Scientific staff			•	
	Associate Director	1	1 fa	om 27.11.96	
		1	1 '	·., - —	
	(Stat.)	1	· 1	·	
	Asst. Professor	1	1 ',"	·	
N.P	RP Phase I	'1 	•	ا مر -	
	Assoc. Prof. (Aqua.)	1	1	· 	
	Asst. Prof (Hort.)	l I	1		
	(Agron.)	1	. 1 -		
	(Microbiology)	1 .	 ,	1	
	(Aqua.)	۱ [.] 1	1	* , <u> </u>	
	(P. B. Genetics) 1	. 1		
	(Micro)	1	1	·. —	
•	Pl. Physiology	1	1	****	
	(Bio-chem.)	1 .	1 '	,	
	(Econ.)	<u> </u>	1	' <u> </u>	
	Assoc. Prof. (Chem.)	1	1		
-	· (Extn.)	1	1	Miles.	
	Asst. Prof. (Ag. Engg.)	1	1	_	
•	Assoc. Prof. (S. S.)	1	1	-	
	Asst. Prof. (Agron.)	1	1		
CR	(WI)	 		Ä	
•	Assoc. Prof. (P. P.)	1	1		

2	3	4
. 1		
1	·	1
1	1	_
. 2	2	_
		·,
1 "	i	
- 1	1	
	·	
ĩ	1	
3	3	<u>-</u>
	•	- 1x
2 \	2	_
	_	
· · · 1	1	`-
. 1	114	
r staff	_	
Juli		
1	1 7	
		_
	-	_
		_
_	_	
		_
1	_ •	_
1	ī '	
1	· i	
ī	ī,	_
1	ī	_
		_
_		•
1 .	; • 1	
-	•	*
1	. 1	
1	, <u>1</u>	· <u>;</u> .
•	•	
, ₁	, 1.	
	1 1 2 2 2 1 1 2 2 2 1 2 2 1 1 1 1	1

New post sanctioned/created/shifted : Nil

Scholarship awarded to staff/Deputation of staff for higher

studies : Nil

Details of seminars/symposia/trainings attended by staff

- Sri. P. Gangadharan, Associate Professor (Stat.) attended a seminar on 'Statistics in fertiliser trials at TNAU; Coimbatore from 15-16th Nov. 1996.
- Dr. K. G. Padmakumar, Assoc. Professor attended the seminar 'Third Indian Fisheries Forum at Kochi' from 24-28th November, 96 at Kochi.
- Sri. P. Gangadharan, Assoc. Professor attended the seminar on 'International freet on Tropical tuber crops' at CTCRI, Trivandrum 9-12th Dec. 96.

Involvement of staff in Academic Programmes

Dr. R. R. Nair, Associate Director served as the Chairman of the Advisory Committee of a Ph. D student.

Farm Revenue

Year	Receipts (in lakhs)	Expenditure (in lakhs) 95·10	
1996-97	7.51		
Important visitors			
Name and address	Purpose of visit	Date of visit	
Mr. J. B. Pronk, Minister for Dev & Co-operation The Netherlands	Station visit	11-8-96	
Dr. O. P. Dubey, Principal Scientist (Entomology) ICAR, New Delhi	Station visit	19-11-96	
Dr. P. K. Koshy, Head, CPCRI, Kayamkulam	do	19-11-96	

ii) RICE RESEARCH STATION, MONCOMPU

Rice Research Station, Moncompu is located at Moncompu, Thekkekkara of Champakulam Panchayat in Kuttanad Taluk of Alappuzha district. The station was started in the year 1940. Dr. L. Remadevi, Professor (Pl. Path.) functioned as Head of the Station during the period under report.

Mandate

To take up work on the location specific research needs of rice in Kuttanad. The main objectives of the station are given below:

Evolving high yielding varieties with multiple resistance to pests and diseases.

Standardisation of management practice so as to increase productivity.

Formulating integrated management practices to control weeds, pests and diseases.

Evolving low cost production technology for Kuttanad.

. į.

Staff position

Category	•	No. of p	oosts	Vacant
	-	sanctioned	in posi	tion
KAU Non Plan				
Assoc. Professo	r (Agron.)	1	16	from 28.12.96
Asst. Professor		1	-1.	
	(Bot·)	1	1,	from 28.12.96
	(Chem.)	1	i	
Junior Statisticia	ın	1	1	from 31.12.96
AICRIP	(,)			
Asst. Professor	(Agron.)	1 ′	1. 1.	from 17.10.96
•	(Bot:)	1	· 1.	·
	(Ent.)	1	1	_
Technical Assist	ant	2		2
NARP Phase I				
Assoc. Professo	r(Ent.)	1	1.	from 17.9.96
Asst. Professor	(Pl. Br.)	1		1
	(Pl. Path.)) 2	2	_
	(Chem.)	1	1	
Professor .	(Pl. Br.)	1	÷ 1	1
Admn. Assistant		1	1.	_
Section Officer		1	1	from 30.10.96
(post shifted to l	Karumady))	•	
Asst. Seln. Grad	le	3	3	 -
Gr. I		1	1	_
Typist Seln Gr.		1	1	_
Jeep Driver Gr	. I	1	1	_
Peon		. 1	1	_
Watchman		, 1		1

1	2		3	4
Sweeper cum Attendant.	1		_	1
Boat Driver	1		1	_
Boat Syrang	, 1			.1
Farm Asst. (Seln. Gr.)	1		1 -	<u> </u>
(Gr. II)	2	•	2	
Lab Asst. Gr. I	1		1	. —
Gr. II	1		ļ.	
Gr. III	2		2	
Gr. III (Hr. Gr.)	1		1 .	

Scholarship awarded to staff/Deputation of staff for higher studies

Smt. Reena Mathew and Devika, R., Asst. Professors were deputed for undergoing Ph. D programme, at KAU from 29.12.96.

Important Visitors

Name - ^	Purpose	Date	
A team of farmers from Africa, Belgium and Togo along with Dr. P. K. Koshy,	To visit the station as a part of summer institute	10.10.96	
Head, Nematology, CPCRI Kayamkulam	•		
Dr. N. V. Krishnaiah and	To visit gall		
Dr. U. Prasad Rao,	midge infested		
Senior Scientists DRR, Hyderabad	fields in Kuttanadu	2 1. 12.9 6	

iii) RICE RESEARCH STATION, KAYAMKULAM

Rice Research Station, Kayamkulam is located at the Kayamkulam Municipality of Alappuzha district, one km. east of Kayamkulam town, on the northern side of Kayamkulam Punalur road.

The station was established in the year 1937 under the erstwhile University of Travancore. It was subsequently transferred to the Department of Agriculture in 1958 and continued to function under the Department of Agriculture till 31.1.1972. With the formation of Kerala Agricultural University, this

station has become one of its constituent units with effect from 7.2.1972. Dr. K. Sivan Pillai functioned as Professor and Head during the period. The major objectives of the station are:

Evolving high yielding varieties (of rice, sesamum and pulses suitable for the sandy tract of Onattukara region.

Formulating improved agricultural technologies and plant protection measures for the cultivation of rice, sesamum, pulses and vegetables.

Conducting training to the personnel of the Agriculture Department and farmers of the region to impart latest agrotechniques in the cultivation of the above crops and also mushrooms.

Conducting adaptive trials and demonstrations of research findings and improved cultural practices in the cultivators field.

Adopting nearby villages and demonstrating the improved agricultural practices and research findings developed at this centre, through Village Adoption Programme and frontline demonstrations.

Staff position

Designation/category		, No		
	,	Sanctioned	In positio	n Vacant
 а)	Scientific staff			
	Professor	_		
	Assoc. Professor	՝5	5.	_
	Asst Professor	4	4	-
	Others (Research			
	Associates)	2	. 2.	
b)	Technical staff		•	
	Farm Supervisor	3	3	. -
	Farm Assistant (Seln. Gr.)	2	2	_
	Lab Assistant (Gr. III)	3	3	
c)	Administrative & Support	ing staff		
	Administrative Asst	1	1	_
	Assistant (Seln Gr.)	1	1	_
	Assistant (Sr. Gr.)	1	1	
	Typist (Sr. Gr.)	' ' 1	1	
	Peon (Hr. Gr.)	1	1	-
	Sweeper	1 .	1 ((upto 28.2.97
	Jeep Driver Gr. III	1	1	_
	Tractor Driver (Hr. Gr.)	1	1	_

New post sanctioned/shifted : Nil

Scholarship awarded to staff/deputation of staff for higher studies : Nil

Details of seminars/symposium/training attended by staff:

Dr. Sverup John, Assoc. Professor (Pl. Breeding) attended the Annual Kharif Oil Seeds Meeting of sunflower Sesame and Niger during 13.4.96 –16.4.96 at Jawaharlal Nehru Viswa Vidyalaya, Jabalpur (M.P)

Smt. G. Suja, Asst. (Professor (Ag. Ent.) participated in the summer institute on "Recent Advances in the Integrated Management of pests and diseases of coconut at CPCRI, Kayamkulam from 10.10.96 to 30.10.96.

Dr. Sumam George, Assoc. Professor attended a training course on systematic approach for soil fertility evaluation and improvement at Central Research Institute for Dry land Agriculture, Hyderabad.

Involvement of staff in Academic Programmes

Dr. K. Sivan Pillai, Professor and Head (upto 31.5.96) continued as a member in the advisory committee of M.Sc. (Ag.) student of College of Agriculture, Vellayani.

Dr. P. Sushamakumari, Assistant Professor, continued as the chairperson of the advisory committee of an M.Sc. (Ag.) student of College of Agriculture, Vellayani.

Smt. M. Indira, Assistant Professor continued as a member in the advisory committee of M.Sc. (Ag.) student of College of Agriculture, Vellayani.

Farm revenue

Year	Receipts (in lakhs)	Expenditure (in lakhs)	
19 9 6-97	2,57,668	40,50,773	Ţ

Important visitors

Name and address	Purpose of visit	Date of visit
Sri. G. Sudhakaran, M. L. A Kayamkulam	Station visit and held discussion for starting KVK in Alappuzha Dist.	18.2.97

iv) RICE RESEARCH STATION, VYTTILA

The Rice Research Station, Vyttila is situated in a representative site in the centre of pokkali tract. This station started functioning during the year 1938 in a leased land in Kunnara and was changed to the present site in 1933. This station was taken over by the Kerala Agricultural University in 1974. Taking into account the importance of fish prawn culture during the saline phase, a unit for fisheries research was established during 1976. Now this station has a total area of 8.91 ha. An area of 5.25 ha. of wetlands is utilised for field experiments and seed production programme of pokkali rice and 8.05 ha, for fisheries work.

In March, 1982 the station was brought as a sub centre under National Agricultural Research Project of the special zone of problem areas. The main objectives of this station are:

- To evolve high yielding saline tolerant rice varieties suited to the pokkali ecosystem and to find out sustainable and ecofriendly agronomic practices for the cultivation of rice in this area.
- 2) To evolve cropping system practices by which the annual income per unit area can be increased to the optimum level by adopting integrated farming of rice, fish and prawn in pokkali lands.
- 3) To evolve sustainable and ecologically viable cultural practices for fishes and prawns in brackishwater ponds.

Sri. K Chandraseknaran Nair, Assoc. Prof. (Soil Sci.) officiated as the Head of the Station during the period under report.

Staff position

		No.		
		Sanc- tioned	In position	Vacant
	, 1	2	3	4
a)	Scientific staff			
	Professor (Agrl. Botany)	1	1	<u> </u>
	Professor (Soil Science)	1	_	1
	Assoc. Professor (Agron.)	1	1	_
	Assoc. Professor (Aqua)	1	1 .	
	Asst. Professor (Aqua)	1	_	1
	Asst. Professor (Pl. Breedin	ıg) l	_	1 .

1	2	3	4
Technical Staff			
Farm Supervisor Gr. II	2	2	_
Farm Aşst.	2	2	_
Lab. Asst. Gr. III	1	. 1.	. —
Driver Gr. II	1	1	_
Fisherman cum Watchman	2	1	1
Pump Operator	1 .	1 4	_
Administrative staff	•		
Administrative Asst.	I	1 .	. –
Assistant	2	. 2	
Typist	1	.1	—
Peon	2	1	1
Watchman	1	, — "	l

New post sanctioned/created/shifted · : Nil

Scholarship awarded to staff/

deputation of staff for higher studies : Nil

Details of seminars/symposia/trainings attended by staff:

Name and designatian of Scientist	Details of seminar/ workshop	Duration	
N. K Sasidharan	Seminar on Pokkali	February,	
Associate Professor	Vikasana Agency	1997	

Involvement of staff in Academic Programme

Dr. K. Sivan Pillai, Professor and Head, served as advisory committee member of one M. Sc. (Ag) student and a Ph. D. student of the College of Agriculture, Vellayani. Four FET trainees from NAARM, Hyderabad were given training for two months at this station. Sri C. G. Rajendran, Associate Professor served as the co-ordinator of the programme.

Farm revenue

Year	Receipts in lakhs	Expenditure in lakhs
1996-97	1.65	23.94

v) SUGARCANE RESEARCH STATION, THIRUVALLA

The Sugarcane Research Station, Thiruvalla, was established during the year 1976, with the complete assistance from ICAR under the All India Co-ordinated Research Project on Sugarcane. The Kerala Agricultural University strengthened the research efforts of this station during 1979 by providing more infrastructural facilities and manpower. The research programmes were later strengthened by the funds provided by NARP Phase II from 1988 and VIII plan from 1991 onwards.

The Sugarcane Research Station, Thiruvalla is located at Kallunkal in the Nedumpuram Village, 5 kms away from Thiruvalla town. It is situated at 9.5° E longitude at an elevation of 25.14m above the MSL on the banks of Manimala river, a tributary of Pumpa river, in the Pathanamthitta district.

Staff position

	1	No. of posts			
Category/Designation	Sanctioned	In position	Vacant		
1	2	. 3	4		
ICAR					
Scientific staff					
Assoc. Professor (Agror	i.) 1	1	_		
Asst. Professor (Pl. Bree	ding) l	1.			
Asst. Professor (Pl. Path)) 1	1 -			
Technical staff			•		
Farm Asst. Gr. II	1	1	 .		
Lab Assistant Gr. II	1	1	<u></u>		
Administrative and Supportin	ng strff				
Scientific staff					
Asst. Professor (Horticu	lture) l	1 -			
KAU					
Scientific staff					
Assoc. Professor (Ag. Bo	ot.) 1		1		
Asst. Professor (Ag. Bot) 1	_	1		
Asst: Professor (Agron)	2 -	2	-		

1	2		3	٠,٢	4	
Technical staff				·		_
Farm Supervisor Gr. II (Hr. Gr.)	I		1	•		
Farm Asst. Sr. Gr.	1		1			
Lab. Asst. Gr. III	1			* 1	1	1
Administrative and Supporting.	staff					
Administrative Assistant	1		1	,		,
Assistant Gr. II	2	•	2		_	
Typist Gr. II	1		'n		_	
LDV driver	1	,	1		_	
Peon	1	•	1			

New posts sanctioned/created shifted : Nil

Scholarships awarded to staff/deputation of staff for higher studies:

Sri. Thomas Mathew, Assistant Professor (Agronomy) was granted study leave for undergoing Ph. D programme at College of Agriculture, Vellayani with effect from 27/12/1996.

Details of seminars/symposium/training attended by staff

Dr. D. Alexander, Associate Professor and Dr. Babu George, Assistant Professor attended the AICRP Annual work shop held at Indian Institute of Sugarcane Research, Lucknow during 23rd and 24th December, 1996. The Scientists of the Station attended the NARP Zonal workshop held on 16th January, 1997 at Regional Agricultural Research Station. Kumarakom. Dr. K. Sreekumar, Assistant Professor attended the 9th Kerala Science congress held at Thiruvananthapuram from 26th to 30th January, 1997 and presented a research paper on cowpea. He also attended the Breeders' meet held at Sugarcane Breeding Institute, Coimbatore on 28.10.96. He has also attended a training programme on "Breeding for quality produce from 6th to 20th of November 1996 at the Centre of Advanced studies in Genetics and Plant Breeding, School of Genetics, Tamil Nadu Agricultural University, Coimbatore. Dr. Babu George, Assistant Professor attended Summer Institute on "Recent Advances in the Integrated Management of pests and diseases of Coconut' from 10th to 30th of October 1996 at Central Plantation crops Research Institute, Kayamkulam.

Involvement of staff in academic programmes

Dr. D. Alexander, Associate Professor is nominated as member of the advisory committee of the Ph. D programme of Sri. Thomas Mathew, Assistant Professor in the station.

Farm Revenue

Year : 1996-97 Receipt : 2.42 lakhs Expenditure : 26.38 lakhs

Important visitors

Name and address	Purpose of visit	Date of visit
Sri. John Zacharia General Council Member. Kerala Agrl. University, Vellanikkara	To attend Farm advisory Committee meeting	12/3/1997

vi) AICRP ON AGRICULTURAL DRAINAGE, KARUMADY

The project viz., All India Co-ordinated Research Project on Agricultural Drainage under actual farming conditions on on Watershed basis is being implemented in 'Kavil Thekkumpuram padasekharam', a part of Kuttanad situated in Ambalapuzha village and taluk of Alappuzha district. The scheme has come into effect from 1.12.1981 and was sanctioned for the 6th, 7th and 8th plan period.

The main objectives and thrust areas of research are given below:

To comprehend the effect of a surface and sub-surface drainage system on the movement of soil liquids.

To study the pattern of hydrological cycle occurring in the watershed areas and its importance and influence on the drainage.

To develop a feasible technology for the lay out of subsurface drainage system suitable for peak and muck soils.

To develop drainage pattern requirement for different crops.

To evaluate the feasibility of using the return flow from drainage for irrigation in relation to water quality rating.

To evaluate the socio-economic benefits acquired from the drainage projects.

Sri. E. K. Mathew functioned as head of the station during the period under report.

Staff position:

		No. of posts			
Desigation/Category Sa	nctioned	In position	Vacant	Remark	
Scientific staff					
Assoc. Professor (Agrl. Engg.)	1 .	1			
Assistant Professor (Agron)	1	1	_	Assoc. Prof. (NC)	
Assistant Professor (Agrl. Engg.)	1	I	-	(2.0)	
Technical staff					
Farm Assistant (Agri.) Sr. Gr.	1	1	_	Farm Assistant Sln. Gr.	
Farm Assistant(Agri Gr' II	i) 2	2		Farm Assi Sr. Gr.	
Lab Assistant Gr. II	1	ĺ			
Overseer Gr. II	1	1	_		
· Draughtsman Gr. II	1		1		
Technician Gr. III	2	-	2		
Driver Gr. Ill	1 .	i			
Pump Operator	1	1	_		
Administrative & Suppo	rting				
Section Officer	1	1	_		
Assistant Gr. I	1	ŀ	_		
Typist Gr.I	1	1	_		
Peon	1	1			
Watchman	2	2		Security Guard P/L & C/	

Faculty Improvement Programme

New post sanctioned : Nil

Scholarship awarded to staff Deputation of staff

for higher studies: Nil

Details of seminars/symposium/training attended by

staff: Nil

Involvement of staff in Academic programme

Dr. M. S. Hajilal was appointed as External Examiner for the subject and he has set questions for Engg. 102 surveying and Farm Structures for B.Sc. (Ag.) programme.

Major Research achievements.

Studies on sub surface drainage revealed that 30m spacing can be adopted for a subsurface drainage system in Kari soils of Kuttanad.

Significant increase in yield was observed in the Kari cultures K 16 and K 18 over the local check Jyothy. The increase for K 16 was 1.08t/ha and for K 18 was 0.95 t/ha over control which yielded 2.27 t/ha only. Further, the cultures, were not affected by chlorosis (Iron toxicity) as against Jyothi.

Farm Revenue : Nil

Important visitors

Name and Designation		Pt	rpose		Date of visit
(1)		,11	(2)		(3)
Prof. Dr. S. I Professor, F BCKVV (Reto M. Selva Raj Scientist, Na Natural Reso Management ISRO Haadqu Antariksh Bh New Bel Roa Bangalore, K Sri. D. C. Do Director & So National Was Development Board, New Dr. R. K. Sh Senior Scientary	igrl. Engg i.) an, tional ource system, tarters, tavan, id, arnataka as, cientist (Resteland it Delhi arma, tist, WTC,	et d.),	Quinquent	ial Review	29-7-96 to 31-7-96

;	- 2	3
Dr. A. K. Bhattacharya,	Annual Review of the	30-1-97
Project Co-ordinator,	Project	
Water Technology Centr	e, ·	
Indian Agricultural	•	
Research Institute,		
New Delhi		'- '
R. Rajesh,	To assess the feasibility	6-6-97
Programme Associate	of a large scale project	
Society for promotion	ge p	
of wasteland Developme	ent	
New Delhi.	. '.	

vii) E.C.F, Unit-KAYAMKULAM'

The on-farm Research Unit is the field testing unit of cropping systems research project. The ECF unit started in 1971, has functioned in different districts all over the state. This unit has been functioning in Thrissur district from 1988 onwards with its headquarters at Mannuthy. The Scheme completed five years by 1993 and was shifted to Kayamkulam with effect from 2/6/'93.

The project took a new turn by 1990. As against the earlier concept of same type of experiments all over the nation, now on-farm research work is done on location specific problems and the area of operation is the NARP zone. The project will help to refine and develop location specific need based technologies and will help in confirmation of advanced technologies under actual farming situation. Sri. Abraham Varghese, Assoc. Professor (Agronomy) functioned as the Head of the unit.

S:aff position	QΩ
----------------	----

		No. of p	oosts	
De	signation	Sanctioned	In position	Vacant
a)	Scientific staff		-	
<i>b</i>)	Associate Professor Technical staff	1	1, ,	, .
	Farm Assistant	6	6	
c)	Administrative and sup	porting staff		
	Typist	1	1	<u> </u>
	Driver	1	1	-1
	Watchman	1	<u> </u>	· 1 .

New post sanctioned/created/shifted : Nil

Scholarship awarded to staff/deputation of staff for higher studies: Nil

Details of seminars/symposia/trainings attended by staff:

XXII Annual workshop meeting of CSR (AICARP) at N.D.U.A.T. Faizabad from October 23rd to 26th

XX NARP Zonal workshop at RARS, Kumarakom 16th January 1997.

Involvement of staff in Academic Programmes

Training of students final B. Sc. (Ag.)

Farm Revenue

Receipts: Rs. 1448 lakhs Expenditure: 8,17,694 lakhs

Important visitors

Quinquennial review team consisting of the following Scientists visited the Station on 14-10-1996

Dr. Maharaj Singh, Dr. Gildayal, Dr. Govindaswamy

Dr. S.K. Sharma, Project Co-ordinator, PDCSR, Modipuram

1.5.3. Central Zone

The three revenue districts located in Central Kerala viz., Palakkad, Thrissur and Ernakulam constitutes the Central zone. The high ranges (Attappady and Nelliampathy hills) of Palakkad, Kole lands of Thrissur and coastal saline areas (Pokkali) of Ernakulam are however excluded. There are 17 taluks, 44 development blocks and 274 Panchayats in the zone. The region lies between 9°47' and 11°16' north latitude and between 75°52' and 76°50' east longitude.

South West Monsoon contributed nearly three-forth of the annual precipitation in the region. The highest average rainfall was received by Ernakulam, among the other districts Eruthiampathy and the surrounding areas in the Palakkad. district is typically dry farming area with very low annual rainfall. All the districts experiences drought of varying magnitude from December to May and the most severely affected districts is Palakkad. The mean maximum and minimum temperatures experienced in the Central Zone are 31.4°C and 21.1°C respectively. The average relative humidity is around 70 per cent. It may go as low as 40 per cent in Palakkad district

during December to March due to the blowing of hot air from Tamil Nadu through the Palakkad gap in the western ghats.

Majority of the soils in the zone are lateritic in nature, coastal alluvium, riverine alluvium and brown hydromorphic soils are also seen in many pockets. Hydromorphic saline soils and acid saline soils are found in the coastal tracts and black soils in the Chittoor taluk.

The following Agricultural Research Stations are located in the Central Zone.

Regional Agricultural Research Station, Pattambi
Cashew Research Station, Anakkayam
Agricultural Research Station, Mannuthy
Cashew Research Station, Madakkathara
Banana Research Station, Kannara and Pineapple Research
Centre, Vellanikkara
Agronomic Research Station, Chalakudy
Aromatic and Medicinal Plants Research Station,
Odakkali
Pineapple Research Station, Vazhakkulam

i. REGIONAL AGRICULTURAL RESEARCH STATION, PATTAMBI

The station started functioning in 1927 with the name Paddy Breeding Station in an area of 33.28 ha and the then mandate was to improve the local bodies of the erstwhile Madras Presidency. With the intensification of research activities in other crops such as cotton, sugarcane, sesamum, pulses and oil seeds, the station was renamed as Agricultural Research Station, in 1930. With the acquisition of 30.36 ha of land in 1945 additionally, the research activities of the station were further intensified. With the reorganisation of the rice research set up in Kerala 1972, the station was elevated as the Central Rice Research Station for the state of Kerala. The station was taken over by the Kerala Agricultural University when it was formed on February 1, 1972. The station was elevated as the Regional Agricultural Research Station for Central Zone with the implementation of the National Agricultural Research Project (NARP) in 1981.

The total acreage of the research farm is 63.64 ha. All the major rice soils of Kerala viz., modan (rainfed upland), palliyals (single cropped rainfed lowland) and double cropped low lands are represented in the farm.

The lead functions are rice, pulses, oil seeds and rice based farming systems.

A seed testing laboratory was established under the station in 1966 which was later nominated as the State Seed Testing Laboratory according to the provisions of the Seed Act, 1969. An A class Agricultural Meteorological Observatory started in 1948, is functioning as a part of this station.

The soil texture of the farm is predominently sandy loam and loam. The soil pH ranges from 5.2 to 5.8. Majority of the crops in the farm are rainfed. However, supplementary irrigation is given to rice during second crop seasons after withdrawal of north east monsoon. Vegetables are raised in summer under irrigation. One block of coconut plantation was irrigated using drip system. The station receives an average rainfall of 2550 mm, of which 66%, is received from South-West monsoon (June-September), 19% from North-East monsoon (October-January) and 15% from summer rains (January-April).

The station has so far released 53 rice varieties. Of this 37 strains were evolved through pureline and mass selection and the remaining through hybridisation and selection. The two high yielding cowpea varieties released by the station are Ptb-1 (Kanakamany) and Ptb-2 (Krishnamany).

Dr. N. Krishnan Nair, Associate Director of Research functioned as the Head of the station during the report period.

Staff position

Category	Sanctioned	In position	Vacant
1	2	3	4
Scientific staff		_	
Non-Plan			
Assoc. Professor (Botany)	2		2
(Chemistry)			
Asst. Professor (Plant pathology) (Agronomy)	2	1	1
Asst. Professor (any discipline)	4	· —	4
NARP—I			•
Professor (Plant Breeding) (Soil Science)	· 2 '		2

1	2	3	4
Assoc. Professor	4		4
(Agronomy)			
(Agrl. Engg.)			
(Ag. Economics)			
Asst. Professor			
Agronomy	1		1
Soil Scien ce	1		1
Ag. Extension	1	1 .	
Ag. Economics	1		1
Horticulture	1	1	
Biochemistry	1		1
Entomology	1	1	_
Professor (Ent.)	1		1
Agrl. Engg.	1		ì
NARP—II			
Asst. Professor			
, Horticulture	1	1.	
Agrl. Engg.	1	` 1,	
Animal Science	1	,—	1
nsp-bsp			
Asst. Professor	1	1	-
AICRIP			
Assoc. Prof. (Pl. Br.	1	1	_
(Agron.)	1	1	٠
(PI. Path.)	1	1	
(Ent.)	1	1	
Asst. Prof. (Pl. Br.)	2	2.	
_ (Agron.)	1	1	
(Pl. Path.)	1	1 .	_
Pulses—AICRP on Arid Legumes			
Associate Professor	2	2	
Agronomy			
Pl. Breeding			
Asst. Professor (Pl. Path.)	1		1
AICRP on long term fertilizer ex	perime	ents	
Associate Prof. (SS and AC)	1	_	1
Asst. Prof. (SS and AC)	1	1	_
ICAR Adhoc Scheme—Chilli			
Research Associate	1	, 1	- -
Sr. Research fellow	î	•	1

Administrative/Supporting/Para-technical/Ministerial/other post

Scheme	Sanct- ioned	In posi- tion	Vacant
1	2	. 3	4
NON PLAN-A			•
Section Officer	4	4	
Assistants	10	9	· 1
S.O.S.	1	, Ī	_
Typist ,	2	e. 2	
Lab Assistant	. 5	2	<u>,</u> 3
Driver (HDV)	1	_	i
Peon	. ,3	3	· <u> </u>
NON PLAN-B			
Sr. Farm Supervisor	· 1	1	• • — •
Farm Supervisor Gr. I	2	2	·· · —
Farm Assistants	· 5	4 .	٠1
Technicians .	1	1	_
Tractor Driver III	1		1
Regular Mazdoor	6	6	
Class IV	· 7	7	
Watchman	2	2	
AICRP on long ferm fertilizer	experiment	S	
Class IV	· 1	1	_
NARP-I ,		_	
Sr. Admn. Officer	i	1	
Typist	ž	2	_
Duplicator Operator ,	้า	1	_
Lab Asst. Gr. II	- 1 .	î	
Driver (LDV)	i ï	_	1
Tractor Driver	ī	_	Ī
NARP-II (Non Plan)	- 1	,	-
Farm Supervisor (v)	: 1 ,	_	. 1
Technician	. 1		1
Asst. Gr. II	1	1	_
AICRIP	•	.1 '	_
Farm Assistant Gr. I	4	.4	
Driver	1	1	_
Tractor cum Jeep Driver	î ·	1	_
Pulses-AICRP on Guar (Arid I	iegumes)	-	-
Farm Asst. (Agri.) Gr. II	2	2	
Lab Asst. Gr. II	. 1	1	

1	2	3	4
NSP - BSP			
Technical Asst.	2	_	2
Field/Lab Asst.	1	1	_
Driver	1		1
Data Base:			
Junior Programmer	1		. 1

New post sanctioned/created/shifted: Nil Scholarship awarded to staff/deputation of staff for higher studies:

Sri. E. Sreenivasan, Asst. Professor and Ms. M. L. Jyothi Asst. Professor are continuing their Ph. D. programme in Plant Breeding and Genetics and Horticulture respectively at College of Horticulture, Vellanikkara on part-time basis.

Details of Seminars/Work shops attended

Name of Scientist	Seminars/Symposia/Venu- to which deputed	e Period of deputation
1	2	. 3
Dr. Leenakumary S	. International Conference on Creativity and Innova-	5 days 10-14 Jan. 97
	tion of Grass roots at Ahmedabad	10-14 jam oʻx
	National Symposium on	3 days
•	Technological Advance	17-19 June 96
•	ment in rice technology College of Horticulture	
	Vellanikkara	
	31 st Annual Rice group	4 days
•	meeting at UAS, Dharwad	15-18 Apr. 97
Smt. Kanakamany M	.T. National symposium on	3 days
	Technological Advance- ment in rice technology	. 17-19 June 96
Smt. Tessy Joseph	Training on "Approaches	28 days
,,,	for the improvement	22 Jan. to
	of Quantitative traits	20 Feb. 97
	in crops" at School of	
•	Genetics, TNAU,	
i	Coimbatore	
	National symposium on '	3 d ays
;	Technological Advance- ment in rice technology	13-17 April 95

1	2	3
Smt. Valarmathi G.	Training on 'Integrated Seed Improvement' at NSC; New Delhi	10 days 14-23 Jan. 97
Dr. T. E. George	Agrl. Seminar at Alathur, conducted by Depart- ment of agriculture, FACT on scientific vegetable seed production	28.9,96
	Agrl. Seminar at Manjeri, conducted by Department of Agriculture, FACT on scientific vegetable seed production	15.10.96
	Agrl. Seminar at Moonniyur, Malappuram conducted by Depart- ment of Agriculture, FACT on scientific vegetable seed production	21.11.96
Ms. M. L. Jyothi	International Conference on Creativity and Innovation at Grass roots at Ahmedabad Banana Seminar, conducted by KAU and Department of agriculture at Pattithara Palakkad	
Sri. E. Sreenivasan	Training on 'Approaches for the Improvement of Quantitative traits in crops' at School of Genetics, TNAU, Coimbatore	28 days 22 Jan. to 20 Feb. 97
Dr. L. Nadarajan	National symposium on Technological advance-	3 days 17-19 June 96
V. P. Sukumara Dev	XXXI Annual Rice work shop held at UAS,	4 days, 15-18th April 26
V. P. Sukumara Dev	National symposium on "Technological advance- ment in rice production" at College of Horticulture,	17th to 19th June 96 3 days

1	2	3	
Dr. T. J.Rehumath Niza,	National Symposium on "Technological advance- ment in Rice production", at College of Horticulture, Vellanikkara	17th to 19th June 96 3 days	
Dr. Jose Mathew	31st All India Rice Research Group meeting at UAS Dharwad	4 days 15-18 April 96	
Dr. Jose Mathew	National Symposium on Technological advance- ment in rice production, at KAU, Vellanikkara	3 days 17-19 June 96	
Sri. T. N. Jagadeesh kumar	-do-		
Dr. Jose Mathew	International Symposium on rainfed rice for sustainable food security, 'CRRI, Cuttack	3 days 23-25 Sept. 96	
Dr. Jose Mathew	'Workshop on statistics in Fertilizer Trial' by potash and phosphate Institute, Canada. India programme held at TNAU, Coimbatore	3 days 15-17 Nov. 96	
Dr. Jose Mathew	National Symposium on 'Agronomy, Environment and Food Security for 21st century by Indian Society of Agronomy at HAU, Hissar	3 days 11-13 Dec. 96	

Involvement of staff in academic programme

Dr. T. E. George Chairman, Advisory Committee of two Ph. D. students, Smt. M. K. Jessy and Smt. K.; B. Sheela working on research projects 'Breeding for resistance to mosaic viruses in pumpkin' and 'Genetic improvement of bell pepper through selection'respectively.

Member, Advisory Committee of one Ph. D. student Mr. P. G. Sadhankumar working on the research project 'Incorporation of crack resistance to a bacterial wilt resistant genetic background in tomato'.

Important visitors

Under farm visit programme for school children 3 high schools in Palakkad organized visits with a total of 230 students and 18 teachers on 9-1-97.

A team of 50 progressive farmers from Sholavaram, Madhura district visited the station on 25-1-97.

A team of 50 farmers of Selam and Rajaji districts of Tamil Nadu visited the station on 19-3-97.

ii. CASHEW RESEARCH STATION, ANAKKAYAM

Cashew Research Station was started in 1963. The Station situated at Anakkayam Village in Malappuram District has an area of 9.92 ha of which eight ha is under cashew and 0.5 ha under Coconut.

The objective of the station are to evolve materials, methods and means to increase the yield potential of cashew through crop improvement and by recommending proper manurial schedules, cultural practices etc.

Sri. K. C. Chandy, Associate Professor continued as head of office during the period under report.

Staff position

	No, of	posts	
Category	Sanctioned	In position	Vacant
a) Scientific staff	4	1	4 .
Associate Professor	1	.1	l from 2-6-97
Asst. Professor	· 2	. 2 .	_ /
b) Technical staff			•
Farm Supervisor Gr.	II 1	1	_
Farm Asst. (Seln. Gr.)	1	1	
Lab Asst. Gr. III	1 1	1	
c) Administrative and Sup	porting Staff		•
Seln. Gr. Asst.	1	ı	_
Seln. Gr. Typist	' 1 ⁻	1	- .
Peon	1	, , , , , , , , , , , , , , , , , , ,	<u> </u>
Sweeper	, 1	1 .	· -

Faculty Improvement Programme

New post sanctioned/created/shifted

Scholarship awarded to staff/deputation of staff for higher studies

Smt. P. V. Nalini, Assistant Professor (Sr. Gr.) and Sri. M. C. Narayanankutty, Assistant Professor, undergoing Ph. D. programme on part time basis at Kerala Agricultural University.

Details of seminars/symposia/trainings attended by staff

Sri. K. C. Chandy, Associate Professor, participated in the National Seminar on Cashew at Bhubaneshwar on 14th, 15th and 16th of December 1996.

Smt. P. V. Nalini, Assistant Professor, attended the XIX Zonal Research and Extension Advisory Committee Meeting held at Pattambi on 23rd May 1997.

Involvement of staff in Academic programmes: Nil

Farm Revenue

			^ <u> </u>
	Year	Receipts (in lakhs)	Expenditure (in lakhs)
1996-97	Non Plan Revolving Fund	2.09 > 10.89	21.28

. :

Important visitors

Name and address	Purpose of visit	Date of visit	
Director Subba Rao Pai. Self Employment Training Centre, Wandoor Jesus Rafael Mendez	Training on grafting, layering and budding To study the	14-6-96	
Scientist from Venezula, IAEA, Fellowship trainee	cashew production technology	26-1-97 & 14-2-97	

iii) AGRICULTURAL RESEARCH STATION. MANNUTHY

This station started functioning during the year 1957 as Rice Research Station, Mannuthy in the then Central Farm Ollukkara, with administrative control vested with Rice Specialist. Consequent to the shifting of Head Quarters of the Rice Specialist to Pattambi in the year 1963, the station was renamed as Regional Rice Research Station. With the formation of the Kerala Agricultural University during 1972, the Rice Research Station, Mannuthy and the Agricultural Research

Station were taken over from the State Department of Agriculture and brought under the control of Agricultural University. In the year 1976, Rice Research Station and Agricultural Research Station, Mannuthy were merged and Research Station and Instructional farm was formed. The administrative control of this station was vested with the Associate Dean, College of Horticulture, Vellanikkara, and a part of this station functioned as Instructional Farm, Vellanikkara, in the newly acquired estate of the Kerala Agricultural University. This Research Station and Instructional Farm, Mannuthy was again renamed as Agricultural Research Station, Mannuthy since 1-9-83. Instructional Farm, Vellanikkara was delinked from Agricultural Research Station, Mannuthy with effect from 1-2-1988 and since then is functioning as independent station.

Apart from KAU Research Projects, the station undertakes research projects in rice under 'AICRIP'. The station also extends facilities to NBPGR to conduct trials on rice. The station also participates in the academic programmes of KAU by way of providing land and labour facilities as well as guidance for post graduate thesis work and under graduate work experience programmes of College of Horticulture, Vellanikkara.

statt position	Staff	position
----------------	-------	----------

Designation/ Category	No. of posts Sanctioned	In position	Vacant
1	2 7	3	. 4
Scientific Staff			
KAU .	* 1		
Assoc. Prof. & Head	1	1	_ ~
Asst. Prof. (Agron.)	ĩ	1	
Asst. Prof. (Hort.)	_ `1	1	_
	(Post shifted Institute, Mar	from Central	l Training
ICAR/NARP			
(A) AICRIP Double Crop Sub Centre	ping		
Assoc. Prof. (Pl. Br.)	· 1	1	
NARP I Central Zone			
Asst. Prof. (Pl. Br.)	1,	1	, -

• 1	2	3	4
Technical staff	;		•
KAU			•
Sr. Farm Supervisor	ì	1	
Farm Assistant (Sr. Gr.)	1	1 .	
Farm Assistant Gr.I	1	1	
Farm Asst. Gr.II	· 2	2	
- Lab Assistant	1	· 1 ·	_ '
Tractor Driver	1		1
Technician,	1.	1	
Overseer	1	. 1	_
(On we	orking arra	angement sin	ce 26.03.96)
Administrative Staff	-		
i) KAU			
Administrative Assistant	1	1	
Sr. Gr. Assistant	1	1 `	·
Seln. Gr. Assistant	1	1 .	<u> </u>
Gr. I Assistant	1	· 1	
Typist	1	1	
Peon	2	2	
Jeep Driver	1	1	
Watchman	ż	_	2
(One Mann	_	ed to KAUG	uest House,

New posts sanctioned/created/shifted/

abolished : Nil

.7

Scholarship awarded to the staff/

deputation of staff : Nil

Details of seminars/symposia/training programmé attended Dr. U. Jaikumaran, Associate Professor (NC) Agron. attended

AICRP on Arid Legumes, annual technical session on 09.05.96 and 10.05.96

National symposium on modern irrigation techniques at Institution of Engineers, Bangalore on 26.6.96 and 27.6.96

NARP Training Programme on "Computer Application in Agricultural Research at NAARM, Hyderabad from 15.7.96 to 27.07.96.

Conducted Labour Friendly Farm Mechanisation & Farm Day held at A.R.S. Mannuthy from 17.8.96 to 20.8.96

Inter National Symposium on banana at KAU Vellanikkara 20.8.96 to 22.8.96

Faculty Research Committee of Agrl. Engg. at KCAE & T, Tavanur on 13.12.96

Head of Stations Meeting and Research Review meeting at R. A. R. S. Pattambi 4.1.97 and 15.1.97

Paddy Seed Production Meeting at Directorate of Research on 6.3.97

Conducted NWDPRA-Mitre Kisan's Training-visit to CSWCRTI, Ooty on 23.3.97

Dr. V.V. Radhakrishnan, Associate Professor attended

AICRIP National Workshop at Dharwad from 18.4.96 to 20.4.96

National Symposium on Technology advancement in rice at KAU Vellanikkara from 17.6.96 to 19.6.96

International Symposium on banana at KAU Vellanikkara 20.8.96 to 22.8.96

Smt. T. Sajitha Rani, Asst. Professor attended

National Symposium on Technology advancement in rice at KAU Vellanikkara from 17.6.96 to 19.6.96

International Symposium on banana at KAU Vellanikkara 20.8.96 to 22.8.96

NWDPRA-Mitra Kisan's Training-Visit to CSWCRTI, Ooty 2.3.97

Accompanied B.Sc. (D.Sc. & Tech.) students of College of Vety. & A.H. for their All India Study tour from 15.2.97 to 9.3.97

Smt. C.A. Rosamma, Asst. Professor attended

National Symposium on Technology advancement in riceat KAU Vellanikkara from 17.6.98 to 19.6.96.

International Symposium on banana at KAU Vellanikkara 20.8.96 to 22.8.96.

Dr. C. Narayanankutty, Asst. Professor attended International Symposium on banana at KAU Vellanikkara 20.8.86 to 22.8.96.

Involvement of Staff in the Academic Programme .

U. G. Programme 🕠

Dr. U. Jaikumaran, Assoc. Professor (NC)

Course leader for work experience programme of B. Sc (Ag.) students of College of Horticulture.

Course teacher of the course Agro. 102(1+1) for B. Sc (C & B) students.

The work experience programme in paddy for B. Sc (Ag.) students was conducted at this station by Dr. U. Jaikumaran Smt. Sajitharani, T., Asst. Professor.

Course teacher of LPM 112 course (Fodder production and management, 1+1 course of 1st year B. V. Sc. students of College of Veterinary and Animal Science (120 students).

Course teacher of M.P. 121 course (Forage production 2+1) course of 1st year B.Sc. Dairy Science & Technology students of College of Veterinary and Animal Science's Mannuthy.

Smt. C. A. Rosamma, Asst. Professor.

Course teacher of PB-GEN 706 (Methods of Plant breeding to the post graduate students of College of Horticulture Vellanikkara.

Farm revenue

Year		Total Receipts		T	otal Expenditure
1996-97	-:	24.024、	f ,	arte	5. 47:010

Important Visitors

Dr. M. J. Thomas, former Assoc. Director of Research (Planning KAU on 18.8.96.

Dr. M. Aravindakshan, Chairman, Coconut Board on 18.8.96.

Sri. C. N. Jayadevan M.L.A. and Sri. M. M. Avarachan, Presiden Block Panchayat visited the station on 31.1.97 for inaugur ation of training programme on commercial nurser management and vegetable production technology.

iv) CASHEW RESEARCH STATION, MADAKKATHARA

The Cashew Research Station. Madakkathara under the Kerala Agricultrual University was established on 1.5.1973 Initially this station was working as one of the four research centres under the All India Co-ordinated Cashew and Spice Improvement Project of the ICAR. The World Bank aided multi state Cashew Research Project was implemented at this station from 15.2.1982 to 3.9.1986. The All India Co-ordinated Casher

improvement Project is ongoing at present. The CRS, Madakkathara is located in Madakkathara village (9 km away from Thrissur town of Thrissur taluk in Thrissur district. The station is situated at a distance of ½ km away from Mannuthy on the left side of Mannuthy-Chirakkakkode road. The total area of the farm is 22.75 ha (23.25 ha planted with cashew and 0.5 ha. under building and roads).

Staff position

Category	Sanctioned	In position .	Vacant
Assoc. Prof. (Agron./Hor	t) 1	1	
Asst. Professor (Ent.)	1	1	
Sr. Tech. Asst.	I	1	
Jr. Tech. Asst.	1	1	
Farm Asst. Gr. II	2	`2	
Asst. Gr. I	1	1	
Lab. Asst.	. 1	. 1	\
Class IV	2	2	_
Driver	1	1	<u> </u>

Faculty Improvement Programme

New post sanctioned/created/shifted : Nil

Scholarship awarded to staff/Deputation of staff for higher studies : Nil

Details of Seminars/Symposia/Training attended by staff:

Dr.Susannamma Kurien, Assoc. Professor and Smt. Suma, B, Assistant Professor attended the International Symposium on Banana held at Kerala Agrl. University, Auditorium, Vellanikkara from 21st to 23rd August, 1996

Dr. M. Abdul Salam attended the National Seminar on Development of Cashew Industry in India conducted at Bhubaneswar, Orissa on 14 and 15th of December 1996.

Dr. M. Abdul Salam, Associate Professor and Dr. Susannamma Kurien, Associate Professor attended the Zonal workshop conducted at Pattambi on 4.1.97.

Involvement of staff in academic programmes

Dr. M. Abdul Salam, Associate Professor offered a course (Agron. 708) at College of Horticulture, Vellanikkara.

i)	Agron 604	Water Management	2+1
ii)	Agron 704	Advances in water,	, ,
		management	2+0
iii)	Agron 708	Advances in farming	
		systems	1 + 0

Dr. M. Abdul Salam continued as guide for one Doctoral Student and one M. Sc. student in Agronomy.

Farm Revenue

Year : 1996-97

Receipts : Rs. 20,16,254 Expenditure : Rs. 29,01,310

Important visitors

Dr. E. V. U. Bhaskara Rao, Acting Director and Co-ordinator.

Dr. K.G. Nair, Secretary, Cashew Export Promotion Council

Sri. P. P. Balasubramanian, Director, Directorate of Cashew Development.

v) BANANA RESEARCH STATION, KANNARA AND PINEAPPLE RESEARCH CENTRE, VELLANIKKARA

The Banana Research Station at Marakkal was established during the year1963 in an area of 17.3 ha, as a centre of the Department of Agriculture to carry out research on Banana and Pineapple. In 1970, the station was brought under the All India Co-ordinated Fruit Improvement Project of the ICAR to carry out research on banana and pineapple. In 1972, when KAU was established this station was brought under it. In 1974, the venue of the Pineapple Research was shifted to KAU Main Campus, Vellanikkara in an area of 6.3 ha. suited for pineapple cultivation. During 1988, NARP Phase II was implemented for strengthening research of banana, pineapple, cashew and post harvest handling of fruits and vegetables. Presently at Banana Research Station, Kannara research is being carried out on banana and pineapple only. Sri. S. Janardhanan Pillai continued as the Head of office during the period under report.

Mandate

The main objectives of the station are:

Germplasm collection, maintenance, evaluation and description of banana and pineapple to recommend the popular and promising cultivars of banana and pineapple for large scale cultivation.

Developing better clones or cultivars of banana and pineapple through selection and hybridisation.

Standardisation of Agro-techniques for banana and pineapple under different cropping system.

To formulate and recommend suitable control measures for pests and diseases of banana and pineapple.

To formulate small scale post harvest processing techniques in banana and pineapple.

Staff position

Category and Designation	No. of p	No. of posts		
·	Sanctioned	In position		
1	2	3	4	
Scientific staff				
AICRP (ŢE)				
Assoc. Professor (Hort.)	1	. 1		
Asst. Professor (Hort.)	1	1		
(Pl. Path)	1 ,	1	·	
(Ent.)	1	ĺ		
Technical Assistant	2	_ `	2	
NARP				
Assoc. Professor (Agron.)) 1	i		
Asst. Professor (Hort.)	1	ī		
Technical staff				
AICRP (TF)				
Farm Asst. Gr. I	з ·	3		
Lab Asst. Gr. I	1	ī	. _	
Oil Engine Driver	1	1	·	
Mali	2	: 2	· _ ·	
Watchman '	2 '		2	
KAU	·		_	
Farm Supervisor GrII	1	1	· _	
Farm Asst. Gr. I	1	. 1		

	2	3	4
Administrative & Supporting sta	aff		
AICRP (TF)			
Typist Gr. II	1	1	
Peon	1	1 .	
KAU	į.		
Administrative Assistant	1	1	,.—
Assistant Gr. I	1	1	_
Driver Gr. II	1,	1 .	_
Pump Operator	1	1 ,	
Peon	1	1	_
Watchman	1	, —	1
NARP			_
Typist Gr. II	1	1	
ICAR Ad hoc scheme Development for the control of Cyst	lopment Nematod	of a natural e, <i>Heterodera</i>	biocontrol oryzicola,
Research Associate	2	2 .	
Faculty Improvement program	nme		
New post sanctioned/created/	shifted	: N	Vil
Scholarship awarded/deputati		•	

Scholarship awarded/deputation of staff for higher studies

Nil

Details of seminars/symposia/trainings attended by staff

Name of Scientist	Seminars, Symposium/Venue to which deputed	Period of deputation	
Dr. Rema Menon Assoc. Professor Dr. S. J. Pillai Dr JSK Charles Dr. Rema Menon Dr. P. K. Sudhadevi Smt. T. Premalatha	A summer Institute at TNAU, Coimbatore "Symposium on Technological Advancement in Banana/Plantain production and processing India International" sponsored by ICAR, KAU and BAGAIN and conducted at KAU, Vellanikkara	20-5-96 to 30-5-96 20-8-96 to 24-8-96	

		10.	
1	2	1-10	3'
Dr. JSK Charles Dr. Rema Menon Dr. JSK Charles Dr. Rema Menon Smt. T. Premalatha	Seminar on Banana Cultive convened at RARS, Patt Conference on challe for Banana production utilization in 21st cerorganized by the Associfor the improvement production and utilized banana (AIPUB) at Trees.	ambi nges and ntury ation t in	5-9-96 to 7-9-96 24-9-96 to 25-9-96
Dr. Rema Menon	Lead person in a Semina "Scientific cultivation Banana" organized by NABARD District offic XXIV/227-A Ashtapathy, Ayyanthole, Thrissur	of y	14-12-96

Involvement of staff in Academic Programmes

Dr. Rema Menon, Associate Professor is the Major Advisor of an M. Sc. (Hort) student of the Department of Plantation crops and Spices, College of Horticulture, Vellanikkara.

Farm revenue 🕟

Year: 1996-97

Receipts: 8.41 lakhs Expenditure: 35.90 lakhs

Important visitors

Name and address	Purpose of visit	Date of visit
Sri. R.C. Sasidharan Nair, DDA, RATTC, Malampuzha and Agricultural Officer	Visit of the Station	18-2-96
Dr. Jain, World Bank (Indian Representative) Dr. Sequora (World Bank) Dr. H. P. Singh, Project Co-ordinator (TP)	To review the ongoing research projects	21-3-97

vi) AGRONOMIC RESEARCH STATION, CHALAKUDY Introduction

The station which was established in 1962 in an area of 8.95 ha, of land has been engaged in the conduct of experiments under the All India Co-ordinated Project for Research on Water Management of ICAR, apart from the NARP Phase I

and NARP Phase II which were completed in 1988 and 1992 respectively. A Project on 'Onfarm Water Management Studies' financed by Ministry of Water Resources, Government of India, and Command Area Development Authority, Government of Kerala was started functioning from 1-4-1989 and concluded. In 1994-95, onfarm water management studies were undertaken as part of ICAR Project. Apart from these projects agronomic studies relevant to irrigation farming have been taken up as University Projects. The station has a sub unit at Vellanikkara for conducting water management trails for tree crops.

Sri. P. J. Ittyaverah, Professor (Agron) continued as the Head of office.

The major objectives of the station are:

- To develop cropping patterns ideal for varying water management and fertility situation.
- ii) To test the adaptability and performance of new crops and varieties under different moisture condition.
- iii) To estimate the water requirement of crops like rice, pulses, vegetables, tuber crops, banana, pineapple etc.
- iv) To evolve measures for increasing water use efficiency of important crops of the area and to work out the economics of cultivation.
- v) To study the ground water fluctuations, quality of ground water and recycling of drainage water for cultivation.
- vi) To find out the cheap and efficiency methods of irrigation for different crops.
- vii) To conduct on farm water management studies in the command area.

The station occupies an area of 8.95 ha. of which 7.05 ha is of wetland and 1.90 ha of upland. Out of the total rainfall of 3431 mm, 78% is contributed by South West Monsoon and 17% by North East Monsoon. The uneven distribution of rainfall during the different periods in the year causes the problems of water logging and water scarcity in the same locality and demands efficient water management practices.

The Station is located on the north side of Chalakudy-Sholayar Road, about 400 m. east of Anamalai Junction in Chalakudy town. The soil of the area is sandy loam, with low to medium in organic matter, available P_2O_5 low to medium and available K_4O very low.

_	<u></u>	No. of posts		Vacant
Designation/Category		Sanc- tioned	In position	
	1-	2	3	4
ICA	AR .			
a) '	Scientific staff	-	5 1	
ı	Assoc. Professor	1	1	
	Assoc. Professor	•	. •	_
	Agrl. Chemistry	1	1.	_
	Agronomy	1	1.	_,,
	Agrl. Engineering	-1	. Î	
	Asst. Professor (Agronor	my) _ 1	1.	, _
b)	Technical staff			_
	Farm Asst.	. 5	5	· ·
	Lab. Asst	1	. 0 ,	
c)	Administrative and Suppor	rting staff	•	
-,	Assistant	imy stant	1	
	Driver	1	1	
	Peon	. 1	1	
	ı-Plan	•		<u>—</u>
	Scientific staff			
	Techhical staff	•		
	Farm Supervisor	. 1	,	•
	Pump Operator	- 1	1	_
	Plough man	1	1	
	-	1	1	→
C)	Administrative and suppor Administrative Assistant		_	
	Assistant	1	1	_
	,	1 .	1	_
	. R. P. →I	-		
	ntiric staff			· .
	Asst. Professor (Agron.)	1	1	
	hnical'staff			
	Farm Assistant	2	· 1	1
	Lab Assistant	1	· 1	
Adn	nn. & Supporting Staff			•
	Typist	1	1	_ '
N.A.	.R.P.—II			
	ntific staff			*
	hnical staff		•	
	nn. & Supporting staff			
	Typist	1	1	

New post sanctioned/created/shifted : Nil

Scholarship awarded to staff/Deputation of staff for higher studies : Nil

Details of seminars/symposia/training camps attended

- Sri. P. J. Ittyaverah, Professor & Head and Sri. V.M. Abdul Hakkim, Asst. Professor (Agrl. Engg) attended the meeting of the Chief Scientists held at the Directorate of Water management, Walmi Complex, Patna from 21.2.97 to 3.3.97 for finalisation of Status Report on Water management Research.
- Sri. Abdul Hakkim, Asst. Professor (Agrl. Engg.) attended a training programme (on !Application of electronics in Agriculture organised by the Central Institute of Fisheries Technology, Kochi, from 19-8-96 to 24-8-96.
- Sri. P. J. Ittyaverah, Professor & Head attended the Anamala Flower show held at Chalakudy, from 1-3, February, 1997.
- Sri. V. Sreekumaran, Associate Professor attended the State level Agri. Seminar-cum-exhibition at Mala from 23.2.97 to 2.3.97.
- Sri. V. Sreekumaran, Associate Professor attended the Agricultural Seminar held at Krishi Bhavan, Poyya on 25.3.97 and handled a class on the use of biofertilizers for the farmers attended.

Involvement of staff in the Academic Programme

- Sri. V. Jayakrishnakumar, Asst. Professor (Agron), Water management Research Unit, had offered a course Agron 307 'Crop production cereals and millets for B.Sc. (Agri.) students of College of Horticulture, Vellanikkara.
- Sri. V. M. Abdul Hakkim, Asst. Professor (Agrl. Engg.) had offered a course Ag. Engg. 101-Irrigation and drainage Engineering (1+1) for first year B.Sc. (Ag.) students and FMT 131 Forest surveying (1+1) for second year B.Sc. Forestry students and third year B.Sc. (Forestry) students.

Farm Revenue

Year: 1996-97

Receipts Rs. 2.58 lakhs
Expenditure Rs. 31.20 lakhs

Important visitors

Dr. N. K. Tyagi, Director, Central Soil Salinity Research Institute, Karnal, Haryana visited the station to see the ongoing experiments on 18.4.96

vii) AROMATIC & MEDICINAL PLANTS RESEARCH STATION, ODAKKALI

With a modest beginning in 1951, the station continues to be the lead research centre for lemongrass in the country. It has been recognised as one of the centres for development and cultivation of medicinal plants by the Ministry of Health and Family Welfare, Government of India and emphasis has been given to strengthen research on aromatic crops with special reference to post harvest technology during the 8th plan period. Under a new scheme sponsored by the Ministry of Agriculture, Government of India, the phytochemical laboratory of the station is recognised as one of the Regional Analytical laboratories for medicinal and aromatic plants and an intensive programme for seed production and distribution of selected target plants is taken up.

Dr. J. Thomas, Assoc. Professor (Agron) continued as the Head of office.

CALEE	
2mii	position

Designation	No. of posts			
,-	Sanctioned	In position	Vacant	
1	2	· 3	4.	
Scientific stalf	-			
Assoc. Professor (Agro	n) l	1 `	_	
Assoc. Professor (Ent.)	1	1	_	
Assoc. Professor	1	1	_	
(Agrl. Che Asst. Professor (Agron.		· . 1	_	
Technical Staff				
Farm Supervisor Gr. I	, 1 ,	1	_	
Farm Supervisor Gr. II	2	2	_	
Farm Assistant (Sr. Gr.)	1	1	_ `	
Lab Assistant Graduate	1	1	_	
Lab. Asst. Non Graduat	e l`	- -, •).	
Lab Asst Gr. III	1	<u> </u>	<u> </u>	

1	2	3	4
Administrative & Supporting	staff		
Administrative Asst.	1	1 .	`
Assistant (Sr. Gr.)	2	2	_
Typist Gr. I	1	Ī	
Peon (Hr. Gr.)	1	ī	
Class IV	2	. 2	
Gardener	1	ī.	_

Faculty Improvement programme

New post sanctioned/created/shifted : Nil

Scholarship awarded to staff/deputation of staff for higher studies: Nil

Details of seminars/symposium/training attended by staff: Nil

Farm revenue

Receipts Rs.: 5.56 lakhs
Expenditure Rs.: 40.15 lakhs

Important visitors

Name and designation	Purpose	Date of visit
Dr. K. C. Dala, Project Co-ordinator (Medicinal Plants),	To learn about the activities of the station	26-7-1996
ICAR Dr. M. Aravindakshan, Chairman, Coconut	-do-	28-8-1996
Development Board, Cochin		• - - •

viii) PINEAPPLE RESEARCH STATION & PEST AND DISEASE SURVEILLANCE UNIT, VAZHAKKULAM

The Pineapple Research Station and pest and disease surveillance unit was started at Vazhakkulam 10 kms. from Moovattupuzha towards east on 2nd January, 1995. The main objective of the station is to conduct survey on pests and disease occurrence in pineapple and to carry out research on nutritional aspects, cropping intensity and post harvest technology.

Sri. Kuriakose K. P., Assistant Professor continued as the head of the station.

Category/Designation		No. of posts			
		Sanctioned I posit		ν	Vacant
Scientific staff					
Assistant Prof. (Pl. Br.)	1	ĺ	1		_
Technical staff					
Research Assoc.		1	. —		1
Administrative & supporting	staff		ţ		
Faculty Improvement Progra	mme	•			
New post sanctioned/created	l/shif	ted	,	:	Nil
Scholarship awarded/Deputa	ition	of staff	ffor		
higher studies			~	:	Nil
Details of seminars/trainings	atte	nded l	by staff	;	Nil
Imvolvement of staff in acade	emic	progra	ammes	:	Nil

NWDPRA projects

Adaptive trials with promising HYV of paddy for pest and disease resistance in watershed areas (three locations).

Performance studies on promising forage crops in coconut garden.

Production potential of different fodder crops in summer rice fallows.

Farm Revenue

Receipts : Nil

Expenditure : Rs. 1,38,601

Important visitors.: Nil

1.5.4. Northern Zone

i) REGIONAL AGRICULTURAL RESEARCH STATION, PILICODE

Coconut Research in India Started in the West Coast at the erstwhile Madras state with the establishment of four Research stations in 1916 one each at Kasaragod and Pilicode and two at Nileshwar. When the Indian Central Coconut Committee was established, the Kasaragod station was taken over by the committee in 1947 and in 1970 it became CPCRI under ICAR. With the formation of Kerala State in 1956, the remaining three stations came under Kerala Agrl. Department. In 1972 the Kerala Agrl. University came into being

One of the stations at Nileshwar (Nileshwar II) and the station at Pilicode were transferred to Kerala Agrl. University with headquarters at Pilicode. Under NARP Scheme, this station was reorganised as the Regl. Res. Station for the northern regions comprising the districts of Kasaragod, Kannur, Kozhikode and Malappuram with effect from 1.6.1980. The present area at RARS, Pilicode is 57.87 ha and that of Nileshwar 17.25ha.

Dr. U. Mohammed Kunju, Special Officer, College of Agriculture, Nileshwar was the head of the Station till 1994 and later Dr. P.A. Wahid, Assoc. Dean, College of Agriculture, Nileshwar took charge of the station and is still continuing.

The main objective of the station are to perform a statewide lead function for research on coconut and to serve as a commodity verification testing centre for rice, pulses and oil seeds and to supervise and guide the work at Panniyur and Tavanur centres in the northern zone of Kerala. It has got close collaboration with the KVK, Manjeshwar.

Thrust areas of Research

In the beginning the activities were centred around introduction of coconut cultivars from different parts of India and other countries, selection, hybridisation, identification of superior local and hybrid varieties and their distribution among farmers. After the implementation of NARP apart from research on coconut and coconut based farming stations rice, pepper, vegetables, pulses, tubers etc. were also initiated.

In addition to the above, Animal science was also included in NARP Phase II to strengthen research on Malabari goats.

Faculty positions

Category	Sanctioned	In position	Vacant
1	2	3 1	4
Associate Director	1	a Samuel P	i
Professor	र सुनु र6 रही	4 🛴	2 :
Associate Professor	14	5-	∽ 9
Asst. Professor	13	8	. 5
Others (Res. Assoc./]RF	9	 ;	9
AICRP	7		
Assistant Prof. (Ag.)	¹ 1	1	• °
NON-PLAN		~	•
Asst. Prof. (Botany, Agr Plant Path., Entomology		_	, 4

1	2	3	4
938 DST Project (AAS)			
Assistant Prof./			
Technical Asst.	1	·	1
Marico Scheme			
Research Associate	3	· 1 ·	2
ICAR Adhoc Scheme (Meteore	ologa)		-
Research Associate	2	1	1
(Survey and utilization of pick	lina tvr	es of mango)	_
Research Associate	2	—	2
Data base system	_	ì	
Junior Programmer	1		1
AICRP on Cashew	-	,	•
Assistant Professor	• 1	1 .	
ICAR Adhoc Scheme on Azoll	_		
Research Associate	a. l	1	
Junior Research fellow	1	· · · · · · · · · · · · · · · · · · ·	1
•	•	,	₽,
Administrative		- -	
NARP-II			
Administrative Officer	1	1	 :
Typist Sr. Gr.	2 -	2	_
Steno	1	1	-
Typist Gr. I	1	1.	\
Peon	1	1	-
NON-PLAN	•	• •	
Section Officer (Hr. Gr.)	1	1	
Section Officer	1	1	_
Seln. Gr. Assistant	. 2	· 2	-
Asst. Gr. I	3	, 3	
Asst. Gr. II	1	_	1
Peon (Hr. Gr.)	3	3	_
Office Supdt.	1	1	
LDV Driver (Hr. Gr.) Seln. Gr. Assistant		-	1
(Training scheme)	1	1	
	;	1	_
Para Technical staff			•
NARP-I	-		
Farm Asst. Gr., II 🔑	4.	, 3 ·	1
Farm Supervisor Gr. I 🕤	1	41.0	<u>-</u> -
Lab Assistant Gr. II	1	· 1	_
· Lab Assistant Gr. III	_ 4	3	1

1	2	3	4
Farm Assistant (Vety.)	2	2	
LDV Driver	2	1	1
Mechanic	1	-	1
NON-PLAN			•
Farm Supervisor Gr. I	2	2	_
Farm Supervisor Gr. II	1	1	- .
Farm Assistant	1	1	
Oil Engine Driver	1	1	
Pump Operator	2	. —	2
Cook-cum-caretaker	1	1	_
(on contract basis)			
Sweeper-Cum-Sanitation worker	,1	,	1
Class IV	3	. 3	
Watchman	ì	_	1.
Regular Mazdoor	15	15	
Farm Assistant (Vety)	1	1	
Farm Supervisor Gr. I (training scheme)	- i	Ţ	· _

Faculty Improvement

Details of Scientific staff deputed for higher studies

Name of Scientist and designation	Details of deputation	Name of University to which deputed
A. Anilkumar	Ph.D	IARI, New Delhi

Faculty Improvement Programme

New Post sanctioned/created/shifted

Asst. prof. (Agrl. Eco.) — shifted to COA, Nileshwar from 11-2-97

Pump Operator—Shifted to PRS Panniyur from 21-11-1996

Details of Seminars/Workshops/Summer Institutes/
Symposia etc. attended by the staff:

Scientists of RARS Pilicode handled classes for the farmers training programme organised in collaboration with the Department of Agriculture. Classes were handled for the Agricultural Officers and Agrl. Assistants of the Department of Agriculture. Totally 56 technical sessions were handled by the scientific staffs during the period on different topics like rice farming, coconut cultivation, plant propagation, vegetable

cultivation, plant protection, mushroom cultivation, floriculture organic farming, vegetable and fruit preservation, watershed development etc.

Details of Seminar/Workshops/Symposia etc. conducted at the Station:

Name of course	No. of participants			
a. Training on biofertilizers and mushroom cultivation	40 farmers of watershed areas			
b. Scientific cultivation of cashew	60 farmers of Sreyas Farm Club, Cheemeni			
c. Farmer-Scientist inter- action—programme	25 farmers attended			

Involvement of staff in academic programmes: All the scientists, are associated with the academic programmes of the College of Agriculture, Nileshwar.

Farm revenue

Year 1996-97

Expenditure (in lakhs) 1.14 Receipts (in lakhs) 21.28

ii) PEPPER RESEARCH STATION, PANNIYUR

Pepper Research Station, Panniyur started as a scheme in 1952 to improve pepper cultivation, was uplifted to the status of a research station under the Kerala Agrl. University in 1972. Since then, research on crop improvement, crop management and crop protection aspects of black pepper are carried out in this station. It is an important co-ordinating centre of the All India Co-ordinated Research Project on Spices of the ICAR. Besides research, nucleus planting materials of released varieties of black pepper, viz., Panniyur 1, Panniyur 2, Panniyur3, Panniyur 4 and Panniyur 5 are also distributed.

Staff position

Ca	tegory S	anctioned	In position	Vacant
A.	Scientific staff	•		
a)	KAU (Non-Plan)			
	Professor	I		1
	Asst. Professor (Botany)) 1	_	1
	Asst. Professor (Agron)	1		1
	Asst. Professor (Pl. Bree	ed). l		1

		-	
1	2	3	4
b) AICRP on Spices			
Assoc. Professor(Pl. Path)	1	1	
Asst. Professor (Pl. path)	1	1 -	_
Assistant Professor (Agron)	1	1	
Asst. Professor (Pl. Breed).	1	1	_
•			
B. Supporting staff			,
KAU Non Plan			
a) Para Technical Staff			
Farm Supervisor Gr. I	1	, —	1
Gr. II	2	2	
Pump Operator	1	1	_
b) Administrative staff			
Admn. Asst.	1	1	_
Sl. Gr. Asst.	1	1	
Asst. Gr. Il	I	<u> </u>	1
Typist Sr. Gr.	1	1.	· <u></u> :
Peon (Hr. Gr.)	2	2	
LDV Driver Gr. II	I	1	· –
Class IV	1	_	1
Class IV. Hr. Gr.	1	1	_
AICRP on Spices			
Para technical staff			
Lab Asst.	1	_	1
Farm Asst. Gr. II	2	3	_
Peon (Hr. Gr.)	1	1	_
Central Nursery (DEAP)			
Farm Asst. Gr. II	1	1 .	

Faculty Improvement Programme

New post sanctioned/created/shifted: Nil

Scholarship awarded to staff/deputation of staff for higher studies: Nil

	Venue	Date	Participants
PLACROSYM XII	RRII, Kottayam	27—29 Nov.96	Dr.A. Rajagopalan Assoc. Professor
19th Zonal workshop Pilicode	RARS, Pilicode	30.1:97	K. P. Mammootty Assoc. Professor Dr. A. Rajagopalan Asst. Professor Gregory Zachariah Asst. Professor

Involvement of staff in Academic programmes: Nil

Farm Revenue:

Receipts : Rs. 6.74 lakhs
Expenditure: Rs. 31.90 lakhs

Important visitors . : Nil

1.5.5 High Range Zone

The High Range Zone is a sub region of Western Ghats lying at an elevation of 750 meters above Mean Sea Level. The region comprise of the hill districts of Wayanad, Idukki, Nelliampathy and Attapady ranges of Palghat, Thannithode and Seethathode panchayats of Kollam, Peringamala, Aryankavu, Vithura, Amboori and Kallikadu Panchayats of Thiruvananthapuram District. The total geographical area of the zone is 1140.67 sq. km. representing 28.67 per cent of the total geographical are of the State. This zone is mainly agrarian with a predominance of high value perennial crops. The major crops are coffee, paddy, pepper, cardamom, rubber, tea, ginger, tapioca etc. The climate prevailing in the zone is by and large mild subtropical which is conducive for growing both tropical and subtropical fruits.

The NARP Phase I sub project for this zone was launched in November. 1983 and was completed in November, 1988. The NARP Phase II project was in operation since April, 1988 and was completed on 19/4/1992. Under the National Agricultural Research Project, the Regional Agricultural Research Station at Ambalavayal functioned as the lead station with the Cardamom Research Station at Pampadumpara as its sub station.

i) REGIONAL AGRICULTURAL RESEARCH STATION, AMBALAVAYAL

This station was established in 1946 as a part of the Wayanad colonisation Scheme to provide planting materials and technical advice to the settled cultivators. With the formation of Kerala State, it was brought under the Department of Agriculture. It was upgraded to the status of a Central Horticultural Research Station in 1966 and later brought under the control of Kerala Agricultural University in 1972. In 1982, it was elevated to the status of a Regional Agricultural Research Station under the National Agricultural Research Project with Cardamom Research Station, Pampadumpara as its sub station.

The Regional Agricultural Research Station, Ambalavayal is located at an elevation of 974 meters above 'Mean Sea Level in Sulthan Battery Taluk of Wayanad District. It is 100 km North east of Kozhikode.

Lead function: Pepper and Pepper based cropping in high ranges, hill paddy, cool season vegetables, soil and water management, subtropical fruits and coffee based cropping system.

Verification function: Essential oils and medicinal plants and ginger.

Station Head: Dr. K. C. Aipe, Associate Professor Staff position

	- ·	anct- oned	In posi- tion	Vacant	Remarks
	1	2	3	4	5
a)	Scientific staff (As per	the rec	commendat	ions of P	eer Group)
	Assoc. Director	1 .	1 .	shif	adquarters ted to KAU, ilanikkara
	Prof. (Horticulture)	1		I VE	italiikka!a
	Assoc. Prof. (Agron.)	1	1	_	
	Assoc. Prof. (Pl. Path.)	1	_	1	
	Asst. Professor (Pl. Br	.) 1	—	1	
	Agrl. Botany	1	_	1	
	Horticulture	2	2	_	
	Pl. Pathology	1	1	_	
	Agrl. Entomology	1	_	1	
	Soil Science & Agrl. Chem.	1	1	_	

1	2	3	4	[5
AICRP on Spices				***
Assoc. Professor	1	1 .		Asst. Professor
(Pl. Breed)				in position
b) Administrative/Suppor	ting/Te	chnical sta	aff .	
Administrative				•
Administrative Officer	: 1	1		
Section Officer	2	2	 .	
Assistant	5	5	_	Two provisi-
,			•	onal
Typist/Steno	3	2	_	l on working
				arrangement
				KAU Head-
Sunnayfing/Machains		٠, ،		quarters
Supporting/Technical		- ·	_	
Farm supervisor	11	9	2	One on work-
	-			ing arrange-
				ment at RCIRC, Calicut
Farm Asst. (Vety.)	1	1	_	Callent
Field Supervisor	1	ì	٠	
Laboratory Asst.	3	9		
Technician	1	1	•	
Tractor Driver	1	1		
Oil Engine, Driver	1	1		
Others				
Driver	1		1	
Peon	3	3	· —	h .
Budder	. 1	1,	_	1
Regular Mazdoor Class IV	3 6	3	_	•
Oldss IV	, D	3	. 3	One on work-
• •	•			ing arrange-
Watchman	3	. 3		ments

Faculty Improvement Programme

New post sanctioned/created/shifted: Nil Scholarship awarded to staff/Deputation of staff for higher studies.: Nil

Details of Seminars/Symposium/Training attended by staff

Dr. T. P. Manomohandas, Associate Professor attended an agricultural seminar organised by Department of Agriculture at Sulthan Battery on 4.6.1996 and taken class on mushroom cultivation.

- Dr. K. C. Aipe, Associate Professor attended the research review committee of the CoffeeBoard at Regional Coffee Research Station, Chundale on 15-7-96 and 8-11-96. He also attended the AIR Advisory Committee meeting on 10-9-96 and 11-3-97.
- Dr. T. P. Manomohandas, attended a training on Integrated disease management in horticultural crops at IIHR, Bangalore from 9-9-96 to 14-9-96.
- Dr. K. Umamaheswaran, Assistant Professor attended a Summer Institute on Recent advances in the integrated management of pests and diseases of coconut at C.P.C.R.I., Kayamkulam from 10.10.96 to 30.10.96.
- Dr. K. C. Aipe, Associate Professor & Head of the station attended a training on Agrometeorology sponsored by NCMRWF at Indian Institute of Tropical Meteorology, Pune from 23.12.96 to 6.1.97.
- Dr. T. P. Manomohandas, Associate Professor attended the regional workshop on NWDPRA at Tagore Centenary Hall, Kozhikode on 7-1-97.
- Dr. K. Umamaheswaran, Assistant Professor attended an Integrated Training Programme on Diagnostic Virology at C.C.S., Hariyana Agricultural University, Hisar from 6th to 15th January, 1997.

The scientists of the station participated in the Ksheera Karshaka Mela exhibition organised in connection with the anniversary of Farm & Home, All India Radio, Calicut at Sulthan Battery from 4th to 6th January, 1997 and in the flower show organised by Agri Hort Society at Kalpetta from 10th to 15th January, 1997.

Dr. T. Pradeepkumar attended a training in Advances in Breeding for biotic and abiotic stresses in vegetable crops from 21.2.97 to 14.3.97 at Y. S. Parmer University of Horticulture and Forestry, Nauni, Solan.

The Scientists of the station attended the 17th State Level Farm Feature workshop of the Farm Information Bureau held at RARS, Ambalavayal from 10-12 February, 1997. They also actively participated in the T&V monthly workshop of Wayanad district organised by Department of Agriculture.

Dr. K. C. Aipe, Associate Professor attended the NCMRWF training on agrometeorology advisory service at I. A. R. I, New Delhi from 26.3.97 to 8.4.97.

Involvement of staff in Academic programme

Eight IAS Probationers were given training at the station on 10-2-97.

Sixteen final year B. Sc. (Agri) students from the College of Horticulture, Vellanikkara were given field training at the station from 3-3-97 to 15-3-97.

Farm Revenue

Year: 1996-'97

Receipts: 27.61 lakhs Expenditure: 81.84 lakhs

Important visitors

Name and designation	Purpose	Date of visit
. 1	2 ,	3
Smt. Sathi Devi, District Planning Officer.	To acquaint with the various activities of the station	30.4.96
Smt. Premalatha, Chief Judicial Magistrate, Kalpetta	To acquaint with the various activities of the station.	18.5.96 & 24,5.96
Dr. M. Aravindakshan, Chairman, Coconut Board, Cochin	To observe the various activities of the station.	29.5.96
Rev. Bishop Kuriakose Mar Cleemes, Sulthan Battery	To acquaint with the various activities of the station	31.5.96
Dr. S. D. Saheb, Superintendent of Police, Waynad.	To acquaint with the various activities of the station	15.6:96
Mr. P. Retnakaran, GC Member, Kerala Agrl. University.	, * · · · · · · · · · · · · · · · · · ·	30.7.96
Mr. V. K. Rajan, Hon. Minister for Agrl. & Pro-Chancellor of Kerala Agricultural University	Inspection of station activities and inauguration of Farm and Home workshop.	9.8.96 & 10.2.97

Ι .	2	3
Sri. P. V. Varghese Vaidhyar, MLA, Sulthan Battery.	To acquaint with the various activities of the station	9.8.96 25.11.96 & 10.2.97
Sri. N. C. Kuriakose, Vice President, Ambalavayal Panchayat	**1	9.8.96
Mr. P. Vijayanand, Superintendent of Police, Wayanad	n -	10.8.96
Sri. K. Gopalan, Executive Committee Member, K. A. U.	"	19.4.96 & 19.8.96
Sri. Rajan Kurikkal, Archaeological Expert	N	14.9.96
Sri. M. A. Baby, Member of Parliament	7 2	15.9.96
Agrl. Trainees from Assam & Sikkim	·	27.9.96
Mr. M. A. Kurian, Member, State Seed Committee	. 19	25.10.96
Dr. C. S. Sreenivas, Joint Director of Research, Coffee Board, Bangalore	517	4.11.96
Sri. T.N. Damodaran Joint Director of Extension, Coffee Board, Kalpetta	-	4.11.96
Sri. K. Gopalan Sri. K. Rajan Sri. Joseph Perumpilly Dr. C. G. Rajendran (General Council Members)	For conducting an enquiry regarding the allegation about the sales of University products	5.11.96
Mr. D. K. Singh, IAS, District Collector, Wayanad	To acquaint with the various activities of the station	9.11.96 & 25.11.96
Dr. M. Aravindan, Krishi Vigyan Kendra, IISR, Calicut	ine station	13 .11.96

1	2	3
Sri. T. K. Ramakrishnan Hon. Minister for Culture & Social welfare, Kerala	To acquaint with the various activities of the station	25.11.96
Smt. Jagad amma K, President, Ambalavayal Panchayat		25.11.96
Sri. Johny Nellore, MLA Sri. Kutty Ahammedkutty, MLA, Sri. K. Gopalan, Executive Committee	To attend the Works Committee meeting held at the station	15.1.97
Member Smt. Saraswathy Kunhikrishnan, Sri. P. O. Thomas, DPP.	• .	, , , , , , , , , , , , , , , , , , ,
Smt. Radha Raghavan, MLA, Mananthavady	To acquaint with the various activities of the station	3 0-1-9 7
Dr. K. V. Peter, Director IISR, Calicut	,	3 2.97
Dr. Y. R. Sharma, Scientist, IISR, Calicut		
Dr. K. Rajmohan, Director of Extension	To attend the state level farm feature workshop of FIB conducted at the station	10.2.97
M. R. Gopalakrishnan Nair, Chief Judicial Magistrate, Kalpetta	To acquaint with the various activities of the station	13.3.97
Hon. Justice UP, Singh, High Court of Kerala	. 11	22.3.97
Smt. K. Hema, District & Sessions Judge, Kalpetta	11	22.3.97 & 28.3.97
Hon'ble Justice N. Dhinakar, High Court of Kerala	,,	28.3.97

ii) CARDAMOM RESEARCH STATION, PAMPADUMPARA

This station was established in the year 1956, under the Department of Agriculture with a view to undertake research programmes on the various agronomical, botanical, entomological and phytopathological problems of cardamom cultivation. Soil and water management problems in the Idukki

region, selection of promising pepper cultivars for high ranges standardardization of agro-techniques and formulation of plant protection measures, in collaboration with Pepper Res. Station, Panniyur for cardamom and pepper and to serve as a centre for agricultural extension education activities in the Idukki, Region

The station has been taken over by Kerala Agricultural University in 1972. The All India Co-ordinated Spices and Cashew Improvement Project was started in 1972 and NARP in 1983. The station has more than 600 rose svarieties and serves as a source for supply of rose buddings in polybags and pots.

Researches on tree spices had also been initiated.

Station Head

Dr. Arthur Jacob, J. Assoc. Professor (Ent.)

Staff position

Scientific staff

Category/Designation	No. of posts		Vacant
	Sanctioned	In position	post
AICRP			
Asistant Professor (Ent.)	1	1	
Associate Professor (Agron.)	1	ľ	
NARP '	ı		
Asst. Professor (Ent.)	1	_	1
Assistant Professor (Pl. Br.)	1		1
KAU (Non' Plan)		•	
Asst. Prof. (Pl. Path)	· 1	· . · ·	1 .
Asst. Prof. (Hort.)	1	- '	1
Asst. Prof. (Bot.)	1		I `
Asst. Prof. (S.Sci.)	1	1	,—
Technical staff		•	• .
AICRP			
Farm Asst. Sr. Gr.	1	1	
Lab. Asst. Gr. I	1	1 .	_
NARP	٠ .	•	
Farm Supervisor Gr. II	1	1 .	<i>'</i>
Farm Assistant Sel. Gr.	1 -	1	<u></u>
KAU-Non-plan		,•	!
-Farm Supervisor Gr. I	1	1	_
Farm Assistant Sr. Gr.	I	1	

Administrative and Supporting Staff

Category/Designation	Sanc- tioned	In position	vacant
AICRP			
Peon	1	1	
NARP		•	
Typist Grade II	1		1
KAU-(Non Plan)			
Administrative Asst.	1	1 .	-
Sr. Gr. Asst.	1	1,	
Asst. Grade II	1	1	`
Typist Grade II	1	-	1
Driver Grade III	1	1 .	_
Watchmen	2	2	
Class IV Sweeper	1	1	

Faculty Improvement Programme

New post sanctioned, created shifted : Nil Scholarship awarded, to staff/ : Nil Deputation of staff for higher studies

Details of Seminars/Symposium/ : Nil .

Training attended by staff

Involvement of staff in academic programme: Nil

Farm Revenue

Year: 1996-97

Total receipts 36.87 lakhs 😁 Total expenditure 6.95 lakhs

Important Visitors

Name & address	Purpose of visit	Date of visit
Sri. Subratha Biswas. IAS, District Collector, Idukki (Dt.)	To acquaint with the activities of the station	28/4/1996
Sri. Jose Syriac., IAS, Secretary to Government Dairy Department	11	27/5/1996
Sri. Jóhny Nelloor, MLA Executive Committee	Official	11/6/1996
Member	. •	- •
Kerala Agrl. University	• 	

1	2	3
Sri. V. K. Rajan Hon. Minister for Agriculture	Station & official visit	18/8/1996
C. K. Krishnankutty, District Panchayat Member	. Station visit	18/8/1996
Huub A. I., Scientist, International Agri. Centre, The Netherlands	Official visit	15/9/1996
Sri. M. A Wahid, Chairman, Accounts Committee Kerala Agrl. University,	. "	8/11/1996
Dr. S. N. Potty, Director of Research, Spices Board, ICRI, Myladumpara.		8/11/1996

1.6. KERALA HORTICULTURE DEVELOPMENT PROGRAMME, VELLANIKKARA

Research and Development Projects

The Research and Development (R & D) component of Kerala Horticulture Development Programme (KHDP) started functioning at the Kerala Agricultural University since February, 1994. This forms a part of the joint venture of the Kerala state Government and the European Economic Community (EEC). The R & D component of KHDP is fully financed by the KHDP. The R & D activities of KHDP at the University is functioning at two campuses of KAU. viz., College of Horticulture, Vellanikkara and the College of Agriculture, Vellayani.

Dr. S. Ramachandran Nair functioned as the General Co-ordinator of the R&D Unit of KHDP during the period under report.

Mandate

To conduct research on fruit crops (banana, mango, and pineapple), vegetables and post harvest technology of fruits and vegetables based on farmer's problems.

To supply quality planting materials, ie. breeder/foundation seeds of vegetables, mango grafts and tissue culture plants of banana and pineapple to KHDP.

Establishment of pest and disease surveillance units at Ernakulam and Trivandrum Pilot Project Areas of KHDP and to monitor the occurrence of pest and diseases and to give recommendations.

Staff position

Cadre	Sanctioned	In position	Vacant
Scientific staff			
General Co-ordinator	1	1'	
Professor .	1	1	
Assoc. Professor	4	4.	_
Asst. Professor	8	8	
Administrative and supporti	ng staff		
Administrative Officer	1	1	
Office Asst. Gr. I		1	_
Office Asst. Gr. II	_	1	
Stenographer	_	ì	
Typist		1	P-00-1
Class IV		1	
Farm Asst. Gr. I		6	
Drivers		3	
Research Associates		3	4

Scholarship Awarded to Staff/Deputation of Staff for Higher Studies

Awarded the Netherlands fellowship under Colombo Plan to Smt. T. Sheela Paul, Asst. Professor, for the International Training Programme on IPM at the Netherlands from March to July 1996.

Details of scientists participated in seminars/workshops/, summer institutes/symposia etc.

Name of scientist	Seminars/symposia/. venue	Period of deputation
1	2	3
Dr. T. R. Gopalakrishnan Assoc. Professor	Attended workshop on PTD Research organised by KHDP Kochi.	6.5.96 to 7.5.96
Dr. K. Aravindakshan Assoc. Professor	,23	**
Dr. Maicykutty P. Mathew Assoc. Professor		17

1	2	3
Dr. V. S. Devadas	Participated in the Summer Institute on recen advance in Agrl. Research Management at NAARM, Hyderabad	-
Dr. A. K. Babylatha Assoc. Professor	Summer Institute on 'Recent Advances in Agricultural Research Management' at NAARM, Hyderabad.	3.6.96 to 22.6.96
Dr. K. Nandini Asst. Professor	National symposium on technology advance- ment in rice at the KAU Vellanikkara.	17.6.96 to 19.6.96
Dr. Maicykutty P. Mathew Assoc. Professor		11 3
S. Ramachandran Nair General Co-ordinator KHDP	International seminar on banana conducted by the Kerala Agrl. University at KAU Hgrs.	Aug. 96
Dr. Maicykutty P. Mathew Assoc. Professor	"	11
Dr. A. K. Babylatha Assoc. Professor	National symposium on Horticultural Bio- technology organized by Horticultural Society of India at IIHR. Bangalore	28.10.96 to 30.10.96
Dr. Ramachandran Nair General Co-ordinator	Attended two days National seminar on participatory Technology	21.11.96 to 22.11.96
Dr. V. S. Devadas Assoc. Professor	Development organised by the Kerala Horticulture Development Programme, Kochi at Thiruvanantha- puram.	
Dr. V. S. Devadas Assoc. Professor	National Seminar – Plant Physiology for Sustainable Agriculture held at the IARI, New Delhi	19-21 March 97

Details of seminars/workshops/symposia/etc. conducted at the station

Dr. S. Ramachandran Nair, General Co-ordinator conducted classes for two batches of trainees on tissue culture during the period.

Organised and conducted a training programme on In vivo techniques and agronomic evaluation of Anacardium to a Faculty member from the Orient University, Managas, Venezuela for a period of four months from 18 Nov. 1996.

Conducted class on Mango cultivation to the Agrl. Officers of Palakkad, Malappuram and Kozhikode districts as a part of the training programme organised by RATTC, Palakkad on 20-12-96.

- Dr. A. K. Baby Latha, Assoc. Professor (Hort.) conducted classes for three batches of trainees on tissue culture during the period.
- Dr. V. S. Devadas, Assoc. Professor (Hort.) handled a class for 40 farmers of KVK, FACT, Pazhanji on vegetable cultivation on 21-12-1996.

Involvement of staff in Academic Programmes

- a) Courses handled
- Dr. T. Radha, Assoc. Prof. (Hort.) handled a regular course FMAU 202 Forest Tree Propagation for II B.Sc. (Forestry) students.
- Dr. V. S. Devadas, Assoc. Professor (Hort.) handled a regular course Hort. 162 Arboriculture, for III B. Sc. (forestry) students.
- Dr. V. S. Devadas, Assoc. Prof. (Hort.) handled a regular course Hort. 604—Vegetable and flower seed production for II M. Sc. (Hort.) students.
- Dr. K. Nandini, Asst. Prof. handled a regular course Agr. Bot. 612 Principles of Plant Physiology for M. Sc. students.
- Dr. K. Nandini, Asst. Professor handled a regular course Ag. Bot. 305 Plant Physiology-II for final year B.Sc. (Ag) students.
- Dr. K. Nandini, Asst. Prof. handled a repeat course Ag. Bot. 203 Plant Physiology-I for third year B.Sc.(Ag.)students.

b) Post graduate guidance—As guide of P.G. students

Dr. T. Radha, Sri. Jojose, C-M.Sc. (Hort.)

Assoc. Profeesor

Dr. A. K. Babylatha, Smt. V. Bindu-M. Sc. (Hort.)

Assoc. Professor

Dr. K. Nandini Smt. Thara Manoharan—

M. Sc. (Pl. Br.)

Dr. T. R. Gopalakrishnan Mr. P. K. Singh-Ph. D. (Hort.)

Dr. K. Aravindakshan Smt. Deepa Jacob Mavelil

-.M.Sc. (Hort.)

c) As member of Advisory Committee

Dr. Maicykutty P. Mathew Smt. Sreekala-M.Sc. (Ent.)

Assoc. Professor

Dr. T. Radha, Assoc. Prof. Smt. Jyothi, M. L.—Ph.D. (Hort.)

Dr. V. S. Devadas, Smt. K. Krishnakumari –

Assoc. Prof. Ph. D. (Hort.)

Smt. Liji, P. V.—M.Sc. (Hort.)

Smt. Bavrah Balan—M. Sc.(Hort)

Dr. K. Nandini Smt. Deepa Jacob Mavelil

M. Sc. (Hort.)

Dr. K. Nandini, Smt. Anu G. Krishnan,

Assoc. Professor M. Sc. (Hort.)

Dr. K. Nandini, Smt. Fancy Parameswaran

Assoc. Professor M. Sc. (Pl. Br.)

Farm Revenue

Year: 1996-97

Receipts: Rs. 2,39,859 lakhs

Expenditure: -

Important visitors

R. F. Sapkopa, Director, Crops & Horticulture, Nepal Agrl. Research Council, Kathmandu, Nepal, visited the station on 22-5-96.

2. FACULTY OF VETERINARY AND ANIMAL SCIENCES

2.1. COLLEGE OF VETERINARY & ANIMAL SCIENCES, MANNUTHY

The College of Vety. & Animal Sciences was established in 1955 with a view to train and provide sufficient Veterinary personnel. For the first few years the institution was directly under the administrative control of the Kerala Government, But, subsequently it was brought under the control of the Dept.

of Animal Husbandry. The post graduate programmes leading to M.V.Sc. & Ph. D degree were started in 1962 and 1965 respectively. The College became a constituent unit of the Kerala Agricultural University in February 1972.

The College has associated with it, a Livestock Farm, a Poultry Farm, a Pig Breeding farm and a Goat farm. A Dairy Technology unit and a Meat Technology unit are also in the campus. Two Veterinary Hospitals, one at Mannuthy and another at Kokkalai and a Farm clinic at U. L. F. Mannuthy are also attached to the College as instructional units.

In addition to teaching a number of research projects aided by the University and other External agencies are being operated at the College. Importance was given for the transfer of technology.

The following Research Stations—Livestock Research Station, Thiruvazhamkunnu and Cattle Breeding Farm, Thumburmuzhi are also attached to the College to facilitate research and training.

The College and the residential campus cover an area of 195 hectares.

There are 20 Departments viz., Anatomy, Animal Reproduction, Animal Breeding and Genetics, Bio-chemistry, Clinical Medicine, Dairy Science, Extension, Livestock Production Management, Livestock Products Technology, Microbiology, Nutrition, Parsitology, Pathology, Pharmacology and Toxicology, Physiology, Poultry Science, Preventive Medicine, Surgery, Statistics and Veterinary Public Health.

All the Departments except Biochemistry and Livestock Products Technology are offering courses at the Masters level and all except Extension, Preventive Medicine, Veterinary Public Health, Bio-chemistry, Livestock Products Technology and Statistics are offering Ph. D programme.

Dr. A. Rajan continued as the Dean for the period under report.

Staff	position	ı
-------	----------	---

Designation/Category	Sanctioned post	In position	Vacant
1 1	2	3	4
Administrative Officer	1	1	
Section Officers Sr. Gr. Assistants	6	6 ·,	
Gr. I Assistants Gr. II As sistants	19	16	3

1	` 2	3 ୍	4.
Sr. Office Supdt.	2	2	_
Office Supdt.	2	. 1	1
Typists	6	6	_
Radiographer	1`	1	
Audio visual operator	1 .	. 1	
Artist/Photographer	, 1	1 .	
Duplicator operator	2	2	
Matron	1	' I	
Hostel Manager	2	2 ,	
Syce ·	1 2	1,	
Regular Mazdoor `	1	. 1	_
Gardener	1	1	• •
Groom	I	1 '	
Electrician	1	I	(joined or 10.12.96)
Librarian	1 -		Ţ,
Assistant Librarian	1	1	,
Library Assistant	2	2	
Reference Assistant	2		2
Research Assistant	1	- _	1
Lab. Technician/Research Assistant	2 :	. 2	_ .
Dairy Assistant	· 2	_	2
Junior Programmer	<u></u>	- 1	_
Clerical Assistant/			
Lab Asst. Gr. III	9	9 '	· -
Technical Asst.	1	1	
Dairy Mechanic	1	·	· 1
LDV Driver	6	4	· • 2
HDV Driver	1	. 1	<u> </u>
Farm Supervisor	6	6	_
Farm Asst.	19	19	
Peon	7	· '6	1
Attendant	9	8	r
Sweeper cum-Attendant	16	13	3
Sweeper	. 1	1	
Sweeper-cum-Scavenger	7	1	6
Class IV	2		2
Helper	1	1	
Cleaner-cum-Attendant	1	_	1
Institute Librarian	1	_	1

Academic programmes Student Statistics

Year of admission	Men	Women	Total
U G Programme (1	B. V. Sc. & A. H.)	
1984	1	, ,	1
1986	. 6	1	7
1987	6	3	9
1988	∵3 ,	3	6
1989	5	. 5	10
1990	5 9	24	83
1991	50	28	· 78
1992	58	27	85
1993	59	3 8	97
1994	58	44	102
1995	<u>4</u> 9	34 °	· 83
1996	55	40	95
Total	409	247	653
M.V. Sc.			
1994	3 ,	<u>, —</u>	3
1995	19	15	34
1996	32	3	35
	54	18	72
Ph. D.		•	<u> </u>
1993	4		4
1 9 94	4	• 1	5
1995	2	1	3
1996	4		4
Students passed o	ut -		
B.V.Sc & A.H.	77		
M.V.Sc.	-		•
Ph. D	-	•	
Dairy Science B. S	c. (D.Sc & Tec	:h.)	
1993	8	12	20
1994	14	7	21
1995	8	11.	19
1996	12	17 .	29

Faculty Improvement Programme

Details of scientific staff deputed for higher studies

Dr. Rajendrakumar, Assoc. Professor, Dairy Science is continuing his deputation for Ph. D programme in Dairy Technology. Dr. Geetha C. Jayan, Asst. Professor, Dairy Science is continuing her study leave.

Dr. Devanand, Asst. Professor, Surgery, Dr. Girish Varma, Asst. Professor, Physiology, Dr. K. Vijayakumar, Asst. Professor, Preventive Medicine and Dr. Anil S. S. Asst. Professor, Extension have entered on study leave for their Ph. D. programme.

Change in academic position

Retirement: The following Professors retired from service on superannuation

Name	Designation	Month
Dr. A. Ramakrishnan	Director, Centre for Advanced Studies in Poultry Science	June 1996
Dr. C. K. Venugopalan	Professor, Poultry Science	October 96
Dr. P. C. James	Professor, Microbiology	March 97
Dr. M. V. Sukumaran	Professor, Dairy Science	May 96
Dr. P. T. Georgekutty	Professor, Preventive Medicine	June 96
Dr. K. Chandrasekharan	Professor, Parasitology	Aug. 96
Dr. V. Sathianesan	Professor, Parasitology	Jan. 97
Dr. K. Pavithran	Professor, Dairy Science	Sept. 96
Dr. U. T. Francis	Professor, Dairy Science	March 96
Dr. E. Mathai	Professor, Animal Reproduction	July 96
Dr. C. P. Neelakanta lyer	Professor, Animal Reproduction	Sept. 96
Dr. K. M. Alikutty	Professor, Clinical Medicine	Dec. 96
Dr. M. K. Rajagopalan	Professor, Pharmacology	June 96
Dr. Lucy Paily	Professor, Anatomy	Sept. 96

Transfers :

Dr. V. S. Balakrishnan, Professor took charge as Professor R. C. in January 1997.

Dr. V. Sathianesan, Professor took charge as the head of Dept. of Parasitology in Sept. 96 and retired on superannuation in January 1997.

Dr. C. George Varghese, Professor took charge as head of Department of Parasitology in January 1997. Dr. K. V. Valsala, Assoc. Professor, Pathology, Dr. T. Sreekumaran, Associate Professor, Pathology, Dr. J. Abraham, Associate Professor, Meat Technology took charge as Professors in August 1996.

Dr. A. K. K. Unni, Professor, Poultry Science took charge as Director, Centre for advanced studies in Poultry Science in July 1996.

Dr. Sisilamma George, Asst. Professor, Physiology, Dr. T. P. Balagopalan, Asst. Professor, Surgery, Dr. Mini, Assistant Professor, Microbiology. Dr. Anilkumar, Asst. Professor Pathology, Dr. A. D. Mercy, Assoc. Professor, Nutrition, rejoined duty in their parent department on expiry of study leave.

Postings

Dr. K. Karthiayani joined as Asst. Professor in the Department of Physiology on 5.3.1997.

Dr. B. Sunil has been appointed as Asst. Professor in the Department of Veterinary Public Health.

Dr. Koshy Varghese was posted as Asst. Professor in the Department of Microbiology.

Dr. Aniikumar was posted as Asst. Professor in Animal Reproduction.

Details of training/symposia/workshop etc. conducted at the college: NiI

Faculty Improvement programme

Seminars/Workshop/Summer Institute etc. attended by staff

Name & Designation	n Seminar	Venue	Period
Dr. C. K. Venu- gapalan, Professor	IEI onld Doubles	,	
Dr. K. Narayanan- kutty, Assoc. Prof.		New Delhi	2-2 Sept 1996
Dr. A. Jalaludeen, Assoc. Professor			1000
Dr. Leo Joseph, Assoc. Professor			
Dr. N. Vijayan, Asst. Professor	•		
Dr. A. K. K. Unni, Professor and			
Head, Poultry	- 		

1	2	3	4
Dr. A. K. K. Unni, Professor Dr. N. Vijayan, Asst. Prof.	Workshop organised by DST	Kalka	2-4 Nov. 96
Dr. Syam. K. Venu- gopal Asst. Professor Dr. K. Kajankutty Assoc. Professor	Advanced Training on Vety. Diagnostic imaging with special reference to ultra sonography	Ludhiana	6-17 Jan. 97
Dr. N. M. Aleyas Professor Dr. (Mrs) Santha E George Assoc. Professor Dr. Syam. K. Venu- gopal Asst. Professor	National Seminar on Poultry Production organised by IVA	Thrissur	29 Dec. 96
Dr. P. T. Philomina Assoc. Professor Dr. G. Girish Varma Asst. Professor	Summer Institute in Physiology	Madras Veterinar College	5th Jan. y to 24th Jan
Dr. V. Ramanathan Asst. Professor			96
Dr. Sisilamma George Asst. Professor	Conference	University of Belgiun	
Dr. K. P. Sree- kumar Asst. Professor	Conference	University of London	
Dr. K. R. Harshan Assoc. Professor	Training on Manage- ment Nutrition & Embryo transfer in buffaloes	Hissar	30.5.96 to 27.6.96
Dr. V. S. Bala- krishnan Assoc. Professor	ZERC workshop of Northern zone	Pilicode	30.1.97
Dr. C. Latha, Asst. Professor	Seminar on common parasitic disease of domestic animals in Kerala	Mannuthy	•
	National Seminar on Poultry production	Thrissur	29.12.96

1	22	3	4
Dr. C. Latha, Asst. Professor	Kerala Science Congress	Trivandrum	
Dr. B. Sunil Asst. Professor			
Dr. M ini Asst. Professor Dr. K. De v ada Assoc. Prof.	Summer Institute on Advances in Clinical Pathology and P. M. Diagnosis	Thrissur	8-27 Jan. 97
Dr. Koshy Varghese Asst. Prof. Dr. Leena Devi Asst. Prof.			
Dr. V. Jaya- prakasan Assoc. Prof.	International course on advances in Vaccine Technology & Vety, applications.	Ludhiana	4.3.97 to 9.3.97
Dr. S. N. Rajkumar Asst. Prof.	Short term training course sensory evaluation and Rheology of milk and milk production.	NDRI Karnal	22.8.96 to 13.9.96
Dr. M. R. Saseen- dranath Assoc. Prof. Dr. P. V. Tresamol Asst. Prof	National Seminar on Diagnosis and control of emerg- ing specific diseases of Livestock pets and wild animals.	Madras	12.7.96 to 13.7.96
Dr. Vijayakumar Asst. Prof.	XIX World Biuatrics Congress	Edinburgh U. K.	8.7.96 to 12.7.96
Dr. M. R. Saseen- dranath Aasoc. Prof. Dr. P. V. Tresamol Asst Prof.	Training on Biotechnological methods in diagnosis of Leptospirosis International course on advances in vaccine Technology and Veterinary applications.	Ludhiana	4.3.97 to 9.3.97

I	2		4
D. P. J. Rajkamal	Summer Institute in	Karnal	 16.9.96
Asst. Prof.	Livestock economics		to
D- V C C	4047: W1 G		5 10.96
Dr. K. C. George Professor	49th Annual Con- ference of Indian	Lucknow	19-21 Dec. 9 6
1 10100001	Society of Agricultural Statistics.		Dec. 30
Dr. Mathew	Training	Bharathiar	2- 2 7
Sebastian Asst. Prof.		University	Mar. 97
Dr. C. T. Thomas	International meet on	Thiruvanan-	12.12.96
Prof.	Tropical Tuber Crops	thapuram	
13	Annual review com-	Madras	3-4
	mittee meeting of	Vety.	Feb. 97
	ICAR Network project	t College	
Dr. V. Sathianesan	on Micronutrients. VIII National Con-	Haryana	8-10
Professor	gress of Vety.	Agrl.	October
	Parasitology	Unty.	96
Dr. C. T. Sathian	Training on Modern	- ,	
Asst. Professor	trends in by-product	NDRI	18.3.97
	Technology	Karnal	to 7.4.97
Dr. B. Gangadha-	Summer Institute on	Madras	5.6.96
ran, Asst. Prof.	Radio Isotope Tech-		to
Dr. T. V. Anil-	nology in Animal		24.6.96
kumar Asst. Prof.	Health Science		
Dr. N. Gangadha-	National Seminar	Pantnagar	4.11.96
ran, Asst. Prof.	on impact of envi-		to
	ronmental pollution on health & produc- tion of Livestock Poultry and wildlife		6.11.96
Dr. K. V. Athman	Recent advances in	Ludhiana	3-17th
Assoc. Professor	Gynaecological		Feb. 97
Dr. K. Ramacha- ndran Asst. Prof.	disorders in farm animals		
Dr. Metilda Joseph	Training on Radio &	NDRI Karnal	23rd
Asst. Professor	and Enzyme immu-		Dec. to
	noassay techniques in animal reprodu-		5th Jan, 97
	ctio n		

1	2	3	4
Nair, Assoc. Prof.	Training on Invitro fertilization, embryo culture and associated techniques in farm animals Workshop in National Agriculture Technology programme	NDRI Karnal	27th Jan. to 8th Feb. 97 22-24th Jan. 27
Dr. K. Prabhakaran Nair, Professor	**	,,	11
Dr. K. Prabhakaran Nair, Professor Dr. Anilkumar Asst. Professor	National Symposium in Biotechnology in Animal Reproduction	Pantnagar	4-6 Dec. 96
Dr. Ajithkumar Asst. Professor	Training at CIFT	Cochin	11
Details of Seminar/ work shop/training etc. conducted	Venue discipline	ŗ	No. of artici- pants
Training on role of public health Veteri narians in control of Zoonosis	Veterinary - Public Health	7.10.96 11.10.96	8
Role of Public health Veterinarians	٠,,	20.1.97	
in environmental sanitation		to 24.1.97	10
Training in Diagnostic Radiology &	Surgery	15.10.96 to	
Orthopaedics Manufacture and	Micropiology	26.10.96 2.9.96 to	10
standardisation of biologicals		2.12.96	12
Diagnosis of Mycotic Microbiology in fections	11	9.12.96 to 14.12.96	9
Training in pre- paration packaging of Dairy products	Dairy	24.1.97 to 23.1.98 (ongoing)	4

1	. 2	3	4
Training in sanitary practices	Dairy	24.1.97 to 23,1.98 (ongoing)	4
Fraining in peration and main- enance of dairy equipments	Dairy		4
Praining for Pre- release defence personnels	,,	July 96	2 0 .
Self Employment programme	Extņ.	Sept. 96	
Training on animal husbandry for sele- cted farmers	11	August 96	_
Fraining on applied nutrition and feed nalysis for Veterinary Surgeon	Nutrition	16.12.96 to 21.12. 96	_
Summer Institute on Idvances in Clinic Pathology	Pathology	8.1.97 to 21.1.97	23
Fraining on Aflatoxin analysis	"	16.9.96 to 26.9.96	. 5
Fraining on post mortem technique	"	23 9.96 to 27.9.96	5
Fraining in clinical pathology	Pathology	14.10.96 to 20.10.96	,10
Fraining on advances in disease nvestigation	, ,	16.12.96 to 23.4.97	10
Training in fertility management of ive stock	Animal Reproduction	March 97	9
Library			a.
No. of books added	: 125		•
Progressive total	: 21260		
Journals received on	. exchange/gratis	s : 15	

Hostel

Name of hostel	No. of inmates	Name of Asst. Warden
Mens hostel Main	130	Dr. Jose John Chungath
Annexe	120	Dr. P. G. Baby
P.G	30	Dr. V. S. Balakrishnan
Ladies hostel	245	Dr. Leenadevi. T

Important visitors

Dr. R. S. Paroda, Director General, ICAR

Dr. Archibald David, Professor of Surgery, Madras Veterinary College

Dr. Gaj Raj Singh, Professor, Experimental Surgery, IVRI

Dr. Avinash Deshmukh, Scientist Ralston Purina Co., USA

2.2 POULTRY AND DUCK FARM, MANNUTHY

The University Poultry and Duck Farm oringinally under the State Department of Animal Husbandry was brought under the Kerala Agricultural University from 1-2-'72.

Dr. G. Reghunathan Nair, Professor was in-charge of the unit during the period.

Major objectives of the farm are to provide hatching eggs, chicks and breeders for farmers, to provide instructional facilities for teaching and research and to take up independent research in various aspects of poultry production.

Staff position Scientific staff

Designation .	No. o	f posts	
	Sanctioned	In position	Vacant
Professor	1	1	
Assoc. Professor	3	1	2
Asst. Professor	2	_	2
Technical Staff			
Sr. Farm Supervisor Gr	. 1 1	1	
Farm Supervisor	1	1	
Sr. Gr. Farm Assistant	1	1	_
Farm Asst. Gr. Il	1	1	

1	2	3	4
Administrative staff			
Administrative Assistant	1	1	_
Sr. Grade Assistant	1	1	_
Seln. Gr. Typist	1	1	_
Peon H.G.	1	1	
Class IV	2	2	
Watchman	1	1	 -

Faculty Improvement programme

New post sanctioned/created/shifted : Nil

Scholarship awarded to staff, deputation of staff for higher studies: Nil

Details of Seminars/symposia attended by staff: Nil

Involvement of staff in academic programmes—one U.G Course SFT 311 is taken by the staff of the station.

Farm Revenue

Year	1996-97
Receipts in lakhs	17.185
Dxpenditure in lakhs	39.925

2.3. UNIVERSITY PIG BREEDING FARM, MANNUTHY

It is a unit of College of Vety. & Animal Sciences, started in 1965 with the objective of conducting research on various aspects of swine production, to function as a demonstration unit for farmers and instructional unit for students and to produce and distribute good quality piglets to farmers. The area of the farm consists of four hectares.

All India Co-ordinated Research Project on Pigs was started in this centre on 1.8.1993. As per the technical programme a foundation stock of indigenous pigs was established in the centre and 2nd generation of the same is in the growing stage for cross breeding with large white Yorkshire in the coming year. Basic informations with respect to management, disease prevalence and nutrition are being collected and detailed studies in these areas will be undertaken with special emphasis on identification and utilisation of cheap unconventional feed stuffs and agro-industrial by products. Due to high difference in adult body size of indigenous and Yorkshire pigs there may be difficulty in natural mating in cross breeding and hence artificial insemination may have to be adopted in collaboration with Department of Animal Reproduction, College of Vety. & Animal Sciences, Mannuthy.

The details of staff sanctioned, in position and vacant are furnished below:

Designation/category	Sanc- tioned	In position	Vacant
AICRP Scientific staff			
Assoc. Professor & Head	1	1	<u> </u>
Asst. Professor	1	1	
Sr. Farm Supervisor	. 1	1	
Farm Supervisor Gr. I	1	1	_
Farm Asst. Gr. II	1	1	· -
Pump Operator	1	'1	: <u> </u>
Administrative & Supporting s	taff	•	'
Admn. Asst.	1	• • • 1	
Sr. Gr. Asst.	1	1	
Asst. Gr. I	1	1	
Peon (Hr. Gr.)	1	f 1	
Pig attendant	2	ı, 2	,
Technical Staff			
Farm Asst. Gr. II	. 2	2	· · · · · · · ·
Administrative & Supporting s	taff	± t	•
Sr. Gr. Assistant	1	. –	ļ
Typist Gr. I	1	1	_ ^

Farm Revenue

Receipts (in lakhs) 2.20707 Expenditure (in lakhs) 14 6141

Important visitors - Nil

2.4. CENTRE FOR ADVANCED STUDIES IN POULTRY SCIENCE

The Centre of Advanced studies in Poultry Science located in the College of Veterinary and Animal Sciences, Mannuthy was established in the year 1986. The Centre coordinates the work of the department of Poultry Science, University Poultry and Duck Farm, All India Coordinated Research Project on Poultry Breeding.

Staff position ...

Designation/category	Sanc- tioned	In position	Vacant
Scientific staff			
Director	, I	1	
Assoc. Professor .	1	1	
Asst. Professor	<u> </u>	, 1	

1	2	3	4
Department of Poultry Science	es:		
Professor	2	_	2
Associate Professor	2	2	
Assistant Professor	5	_	. 5
Technical staff			
Farm Asst.	1		1
Administrative/Supporting sta	ff ·		
Steno to Director	1	1	_
Management trainee	2		2
Research Associate	2	2	

Change in academic position:

Dr. A. Ramakrishnan — Director - retired

Dr. C. K. Venugopalan - Professor - retired

Faculty Improvement Programme

Scientists deputed for higher studies/study leave/leave
 for study purpose — Nil

Participation of Scientists in seminar/workshop/training/ Symposia summer institute.

Dr. A.K.K. Unni, Dr. C.K. Venugopalan, Dr. P. A. Peethambaran, Dr. K. Narayanankutty, Dr. A. Jalaludeen, Dr. Leo Joseph and Dr. N. Vijayan attended World poultry congress, New Delhi from 2-5 September, 1996.

Dr. A. K. K. Unni and Dr. N. Vijayan attended the workshop organised by DST at Kalka from November 2-4, 1996.

Training/symposia/workshop etc. conducted : Nil

Important visitors

Dr. R. S. Paroda, Director General, ICAR visited the Project—AICRP on Poultry Improvement.

2.5 CENTRE OF EXCELLENCE IN PATHOLOGY

Department of Pathology in the College of Veterinary and Animal Sciences was upgraded to the status of Centre for Excellence during 1987. Dr. A. Rajan continued to be the Director of the Centre during the period.

	No. of posts		
Designation/Category	Sanctioned	In position	Vacant
Scientific staff	·		
Director	1	1.	_
Professor & Head	1	1,	_
Assoc. Professor	2	2.	
Assoc. Professor (NC)		3,	
Assistant Professor		6-	_
Parat ec hnical/Administrative	e/Ministerial/su	pporting pos	ition
Sr. Office Supdt.	1		1
Farm Assistant	1	1	_
Dri v er	1	_	1
Attendant	2	2	

Changes in academic position

The two posts of Associate Professors (Dr. K. V. Valsala and Dr. T. Sreekumaran) were upgraded as Professors. One post of Biochemist Dr. Ismayil, Associate Professor was shifted from the Department of Physiology and Biochemistry. Two Associate Professors (Dr. C. R. Lalithakunjamma and and Dr. C. B. Manomohan were promoted by carrier advancement. Six Assistant Professors (including the two posts created for diagnostic Pathology in 1981).

2.6. VETERINARY COLLEGE HOSPITAL, MANNUTHY

Veterinary College Hospital, Mannuthy was establised in the year 1961 with the primary objective of imparting clinical training to the students and providing clinical materials for field problem oriented research. Both in-patients and outpatients are attended category wise under supervision of specialists from four clinical departments viz. Clinical Medicine, Preventive Medicine, Surgery and Animal Reproduction.

Scientific and Technical staff

Category	Sanctioned	In position	Vacant
Scientific staff	-		
Professor	1	1	
Assoc. Professor	1	1	
Asst. Professor	1	1	
Supporting staff			
Farm Supervisor Gr. I	1	/1	_

Cases treated

Equine	4 6
Bovine	4528
Others	4115
Total	8689
Daily average attendance	2381
Out of the above cases:	
Castrations done	56
Major surgical operations	I [*] 16
Minor surgical operations	648
Ranikhet disease	6608

Anti-rabic vaccinations:

Prophylaxis for canine		189
Clinical examination	-	1183

Participation of Scientists in Seminar/Workshop/Training/ Symposia/Summer Institute etc.

Dr. Syam K. Venugopal attended an advanced Training in Veterinary diagnostic imaging with special reference to ultrasonography from Jan. 6th to 17th Jan. 1997 at Punjab Veterinary College, Ludhiana.

2.7. LIVESTOCK RESEARCH STATION, THIRUVAZHAMKUNNU

Livestock Research Station, Thiruvazhamkunnu is located in Kottappadam Village, Mannarkkad Taluk, Palakkad district. The Station is situated 17 kms. north of Mannarkkad with an area of 163.3 ha.

The farm was started under the post war development scheme of Animal Husbandry Department of Madras Government in the year 1950 with its office at Perinthalmanna. The farm was then transferred to Department of Animal Husbandry, Kerala in 1956 and then to Kerala Agricultural University in February, 1972. It was converted into Livestock Research Station on 14.8.78. An A. I. C. R. P. on Agroforestry was started on 8.12.93 and continued to be under operation.

Dr. P. Ramachandran, Professor continued as the Head of the Station.

Main objectives:

To evolve elite breed of Cross bred dairy cattle by Scientific breeding, feeding and management.

To hold problem oriented and adaptive research projects in the field of Animal feeding, production and management.

To advise local farmers on scientific management of livestock and technology transfer to villages.

To provide artificial insemination and animal health care to animal of local farmers.

Staff position

Category	Sanctioned	In position	vacant
Research/Technical		•	
Associate Professor (Nutrition)	1	. –	1
Assoc. Professor (Animal Reproduction)	,1	_	1
Professor (OB & G)	1	1	
Professor (Extension)	1	1	
Asst. Professor (Pathology)	. 1	1	-
Asst. Professor (Animal Management)	. 1		1
Asst. Professor (Sci. Ani. Reproduction)	1	1	_
Para Technical		•	
Farm Supervisor Sr. Gr. (Vety)	. 1	1	_
Farm Supervisor Gr. I (Vety)	1	1	-
Farm Assistant (Vety)	2	1	1
Ministerial	-		
Administration Asst.	1	1	
Assistant Sr. Gr./Gr. I	4	3	1
Assistant Gr. II	1	. 1	
Typist	2	1	1
Peon AICRP on Agroforestry	2	2	_
Research/Technical			
Assoc. Prof. (Forestry)	1	-	1
Assi. Prof. (Agron.)	1	1	Addl. charge
Asst. Prof. (Agrl. Engg.)	1	ī	

2.8. CATTLE BREEDING FARM, THUMBURMUZHI .

Thumburmuzhi is a hill-tract area which is located about 14 kms. east of Chalakudy town in the Chalakudy-Sholayar route, in 1957, Government of Kerala started a dry cattle salvage farm under the Animal Husbandry Department at Thumburmuzhi. By the end of 1957, a cattle breeding Station was started with the financial assistance from ICAR. The dry cattle salvage farm was wound up in 1962. The ICAR scheme continued upto 1969. Since then a livestock farm was started under Animal Husbandry Department. The farm was taken over by Kerala Agricultural University on 1/2/1972 and now this institution is functioning as Cattle Breeding Farm.

The total area of the farm is 63 acres. Resurvey of the area is proposed. Area under fodder cultivation is 40 acres (rainfed-14 acres and irrigated 26 acres). Action has been initiated to bring more area under irrigation by constructing a spout from the irrigation canal. More of area has been brought under fodder cultivation. At present, the farm is having the following fodder crops.

Guinea grass — improved variety (Riversdale, CcI)

Hybrid Napier — (Co I, Co II)

Thin Napier Congo signal

The farm is having 578 bearing coconut trees and 197 young trees.

The major objectives of the farm are to breed and maintain an elite herd of cross-bred cattle; to extent facility for research on cross-bred cattle; to extent facility of artificial insemination to the cattle of surrounding villages; to supply improved varieties of fodder slips.

Faculty Improvement Programme

New post sanctioned/created/shifted : Nil

Scholarship awarded to staff/

Deputation of staff for higher studies : Nil

Details of seminars/symposia/training attended, by staff

Assistant Professor Dr. K. S. Anil was deputed for 7 days training course on 'Drug Immobilization' at Veterinary College

Farm Revenue

Year : 1996-97 Receipts (in lakhs) : 12.95 Expenditure (in lakhs) : 43.30

Important visitors

Name & address	Purpose of visit	Date of visit
Sri. Varghese Perepadan	Formation of	February, '97
Mala, Trichur	Farm Advisory	
(G. C. Member)	Committee	','
<u> </u>		

2.9. CATTLE INFERTILITY SCHEME, KOZHIKODE

Ļ

The cattle infertility scheme was started functioning during 1.9.1980 at Veterinary Hospital, Calicut and shifted in 1984 to a rented building at Vellimadukunnu.

The aim of the scheme is to conduct research on infertility and to find out the incidence, nature and magnitude of prevalence of infertility conditions among cross bred cattle of Kerala.

Under the scheme the main centre is functioning at Mannuthy with regional centre at Calicut and Kottarakkara. Under the regional centre at Calicut four ICDP Sub centres and two Veterinary Hospitals were selected for conducting the regular infertility camps and regular monthly visits carried out for screening of cows and buffaloes for various infertility conditions. In addition to infertility camps organised by Animal Husbandry department, Dairy development Department and Krishi Vigyan Kendra, Ambalavayal were also attended.

Dr. P. P. Balakrishnan, Professor continued as the Head of the scheme.

Staff position

Designation/category	No. of pos	Vacant	
	Sanctioned	In position	-
Professor	1	1	
Assistant Professor	1	· <u>:</u>	1
Farm Supervisor (Vety)	. 1	. 1	
Farm Asst. Sl. Gr (Vety)	1	, <u>1</u>	_
Lab Assistant Hr. Gr.	1	: 1 .	
Attendant Hr. Gr.	1	1	
Assistant Sel. Gr.	1	1	
Peon Hr. Gr.	1	1	

Faculty Improvement Programme

New post sanctioned/created : Nil Scholarship/deputation of staff : Nil

Details of seminars/symposium/training attended by staff

Attended seminar on Recent Trends in Cattle Infertility problems organised by I.V.A. Calicut.

Involvement of staff in the Academic Programme

Offering courses for M.V.Sc., Ph. D. students at College of Vety., & A. S. Mannuthy.

Major advisor of one M.V.Sc. student working in the Research Station.

Farm Revenue

Year 1996-97

Receipts Rs. 0.37 lakhs Expenditure Rs. 7.64 lakhs

REGIONAL SALES AND INFORMATION CENTRE, VELLIMADU-KUNNU, CALICUT

The Sales Centre was opened on 1/7/1996. Quality planting materials, vegetable seeds, KAU Books and Publications, processed Food items—Squash, Jam & Pickles etc. were sold through the counter.

Turn over of sales

1/7/1996 to 31/3/1997

Rs. 1.59.994/-

2.10. UNIVERSITY VETERINARY HOSPITAL, KOKKALAI

This University Veterinary Hospital situated in the heart of Thrissur town has a campus area of 1.2 acres. This being the oldest Veterinary Hospital of the State was started as Cochin State Veterinary Hospital during August 1904, was subsequently been taken over by Kerala Agricultural University during 1972.

Several problem cases of animal diseases are being referred to this hospital by field Veterinarians, Police Departments and other farmers from the entire State. This hospital is equipped with modern infrastructures for proper diagnosis of animal diseases and expert treatment are rendered to the farmers.

An Ultra Sound Sector Scanner was procured and is being made use of in the special clinical examination of small animals.

A portable Electro Cardiograph (E.C.G.) unit is also made available for diagnosing cardiac problem in small animals.

The Clinical Laboratory attached to this hospital is fully equipped especially with Chemistry Analyser for examining blood samples for various diseases. The existing operation theatre is fully air-conditioned and furnished with essential equipments and appliances to cater to the needs of modern surgery. This hospital has three speciality units viz. Medical Unit, Surgery Unit and Gynaecology Unit with Artificia Insemination Centre for Cattle, Buffaloes and Goats.

Staff position

	No	of p	osts	
Category/Designation	Sanctioned	Iı positi	-	Vacant
Professor	1	1		
Asst. Professor	_	1	arra from Col	working angement n Vety. lege, nnuthy)
Farm Asst. (Vety.) Sr. Gr.	2	2		 ,
Pharmacist	1	1		***
Section Officer	1	1		
Senior Gr. Assistant	1	1		
Attendant	2	2		_
Sweeper-cum-Scavenger	1			Ĭ
Peon	1	1		_

Involvement of staff in academic programme

Offers courses in the Veterinary College and conduct clinical training for U.G. and P.G. Studies.

2.11. UNIVERSITY LIVESTOCK FARM AND FODDER RESEARCH AND DEVELOPMENT SCHEME, MANNUTHY

The University Livestock Farm, Mannuthy, established more than 70 years back has been functioning as a Cattle Breeding Farm for the supply of superior breeding bulls for about 40 years. Since the starting of Kerala Veterinary College in 1995, the farm had the added objective of instruction to students and also undertaking research.

This farm provides learning facilities both at undergraduate and post-graduate levels and provides training facilities to

farmers apart from serving the needs of farmers for their fodder seeds and slips. It undertakes problem oriented research projects on livestock farming applicable to Kerala conditions.

Now, the Livestock Farm is having a fodder section as well as a central pool of labourers. The area under the farm is 69 hectares

Staff position

Category and Designation	No. of I	No. of posts		
	Sanctioned	In position		
1	2	3	.4 .	
Scientific staff	· ·			
Professor	. 1	1		
Assoc. Professor	1		1	
Asst. Professor	2	2	, 	
Technical staff			•	
Farm Supervisors	5	5	•	
Farm Assistants	7	7		
Administrative and Supporting	ı staff			
Administrative Assistant	1 .	1		
Section Officer	1	1	· '—	
Assistant	4	4	· _•	
Pump Operator	1	1		
Lab Assistant Gr. III	1	1		
Class IV	4	. 4	· —	

Faculty Improvement Programme

New posts sanctioned/created/shifted
Scholarship awarded to staff

Details of seminars/symposia/training programme attended by staff : Nil

Nil

Involvement of staff in Academic Programmes

Training to Vocational Higher Secondary students (Ayyanthole and Irinjalakkuda batches)

Farm Training to UG students of College of Veterinary and Animal Sciences.

Farm revenue

Year 1996—'97
Total Receipts: Rs. 17.1 lakhs
Total Expenditure: Rs. 92.7 lakhs

3. FACULTY OF FISHERIES

3.1 COLLEGE OF FISHERIES, PANANGAD

The College of Fisheries was started during the academic year 1979-80 with the approval of Indian Council of Agrl. Research and Government of Kerala. To begin with, the College started functioning at Mannuthy, but was shifted to the permanent campus at Panangad, Kochi, in the year 1981. The College is situated in a 30 ha campus by the side of Kochi—Byepass (NH 47) 6 kms South of Vyttila. The College offers a 4 year degree programme leading to the degree of Bachelor of Fishery Science (B. F. Sc.) following the semester system of teaching. The intake capacity at present is 50 per year. Post graduate programme (M. F. Sc.) is also being offered in the College in the disciplines of Aquaculture, Fishery Biology and Processing Technology.

Dr. D. M. Thampy, Professor & Head, Department of of Aquaculture, officiated as Dean i/c (Fisheries) during the period.

Staff position

	No. o	No. of post		
Designation/Category	Sanctioned	Iņ position	Vacant	
<u> </u>	2	3	4	
Scientific staff	.*			
Dean	1		. 1	
Professor	4	. 2	2	
Assoc. Professor	10	8	2	
Asst. Professor	37 , 🦖	20	17	
Technical staff	, in			
Asst. Librarian	1		1	
Ref. Assistant	* 1	. 1		
Lib. Assistant	.1	1		
Lab Assistant Gr. I	1	1	-	
👊 Lab. Asst. Gr. II	1	1	_	
Lab. Asst. Gr. III	4	4	.—	
Clerical Asst.	1	1		
Technician	1	1	—	
Hostel Manager	1	1	_	
Duplicator Operator	1	Ţ		
Pump Operator	1	1		

1	2	3 '	4
Driver HDV	1	1	_ ;
Driver (LDV)	3 .	3	_
Bus attendant	1	1 -	
Fieldman (fisheries)	· 2	2	. .
Fisherman	, 5	1	- 4
Farm Asst. (Sr. Gr.)	1	1	-
Jr. Programmer	, 1	1,	-
Skipper Gr. II	1	1	
Engineer i/c	1	1	_
Gear Technician	^ ,1 ;	1	
. Deck h and	3	3	
Sr Res fellow	4	4 10	_
Field Assistants	- 1	1 ,	→- ′
Administrative and supporting	staff		• •
Administrative Officer Gr.		. 4. 1	
Section Officer	3 ,	3	
Sr. Office Supdt.	2	2	
Seln. Gr. Asst.	2	2	_
Sr. Gr. Asst.	-3	3 ·	_ `
Gr. I Asst.	3	3	
Gr. II Asst.	2	2	
Office Supdt.	1	1	<u> </u>
Seln. Gr. Typist	2	- 2	
Typist Gr. I	1	1	
Class IV	4	4	
Sweeper-cum-attendant	1	1	_
· · · · · · · · · · · · · · · · · · ·			

Faculty Improvement Programme

New Post sanctioned/created/shifted

The post of Asst. Professor (Economics) has been redeployed as Asst. Professor (Fishery Extension).

Deputation of staff for higher studies

Smt. V. Malika, Asst. Professor (Statistics) continued to be on deputation for Ph. D at Central Institute of Fisheries Education, Bombay.

Details of Seminars/Symposia/Training attended by staff:

Dr. D. M. Thampy, Dean isc participated in a one-day seminar on prawn diseases jointly organised by the Marine

Products Export Development Authority, the Agency for Developing Aquaculture in Kerala and Matsyafed in Kochi on 10.4.1996.

Dr. Jayasree Vadhyar, Assoc. Professor and Dr. M. V. Mohan, Assoc. Professor attended the training course on "Computer based application of statistics in aquaculture" during the period from 15th July to 3rd Aug. 1996 at C. M. F. R. I. Kochi.

Smt. Aneykutty Joseph and Dr. S. Shyama, Asst. Professors attended the Summer Institute on "Recent developments in mariculture of molluscs", conducted by C.M.F.R.I at Tuticorin during the period from 20.5.1996 to 8.6.1996.

Dr. Jayasree Vadhyar, Associate Professor attended the Seminar-cum-demonstration programme on "Livepacking and transporting of crabs" organised by MPEDA during the period from 25.5.1996 to 27.5.1996.

Sri. P. Radhakrishnan Nair, Assoc. Professor attended the training programme on "Basic navigational chart-practice and elementary seamanship", conducted by CIFNET at Kochi during the period from 5th to 16th Aug. 1996.

Sri. T.A. Joseph, Ref. Assistant attended a refresher course on "Current trends in Librarianship", conducted by the Academy of Agrl. Research and Education Management of the Chaudhary Charan Singh, Hariyana Agrl. University, Hissar during the period from 1st to 29th Aug. 1996.

A refresher training programme for the Supervisory and Extension staff of the Department of Agri., Lakshadweep was conducted in the college during the period from 10th to 14th September 1936 by the Central Training Institute, Mannuthy.

A training programme in Fishery Oceanography was conducted in the college iduring the period from 16th to 21st Dec. 1996. The training was jointly organised by the Dept. of Fishery Hydrography and the Central Training Institute, Mannuthy for the officers from the Fishery Survey of India, MPEDA and Department of Fisheries, Kerala.

Dr. D. D. Nambudiri, Assoc. Professor, carried out a short-term project at the Food and Drug Toxicology Research Centre of the National Institute of Nutrition, Hyderabad during the period from 30th Dec. 1996 to 29th Jan. 1997, under the INSA visiting fellowship scheme.

A training on "Hatchery management of freshwater prawns" was conducted in the college during the period from 10th to 28th Feb. 1997.

Dr. D. M. Thampy, Dean i'c, Dr. P. M. Mathew, Professor, Dr. Susheela Jose, Dr. Jayasree Vadhyar and Dr. D. D. Nambudiri, Assoc. Professors, Dr. Thresiamma James, Dr. T. V. Anna Mercy, Dr. M. V. Mohan, K. G. Sunny and Dr. S. Shyamma, Asst. Professors attended the Fourth Indian Fisheries Forum organised by the Indian Branch of Asian Fisheries Society at Kochi during the period from 24th to 28th Nov. 1996.

Farm Revenue

Year : 1996-97

Receipts : 3,39,945 lakhs Expenditure : 9,61,252 lakhs

Important Visitors

Name & address	Purpose of visit	Date of visit
Mr. Redwanz, Consultant, Indo-German Reservoir Project, Malampuzha	Discussion regarding organising training programmes	11.4.96
Dr. Kuldip Rai, Director National Wasteland Development Board, New Delhi	Discussion on the wasteland developmen project implemented at Puduveypu	2-5-96 t
Hon, Minister for Agriculture, Sri. V.K. Rajan	Official visit	3-8 -9 6
Dr. M.R. Sinha, Director, CICFRI, Barrackpore	Discussion regarding inland fisheries activities in Kerala	6-8-96
Sri. C. Byre Gowda, Minister for Agriculture and Horticulture, Karnataka	Visit to see the activitie	s 29.1 2. 96

3.2 FISHERIES STATION, PUDUVEYPU

The Fisheries Station, Puduveypu is located at a distance of about 2 km west of Murikkumpadam at the Vypeen island. It is surrounded by the Arabian sea on the west, Cochin barmouth on the south and a canal emerging from the barmouth on the east. The northern side of the station faces the main land.

The campus is mostly a saline marsh with mangroves and salt resistant varieties of grass and shrub. About 25 hectares of thick mangrove area is retained as typical preserve where in varieties of migrant birds and other rare fauna take refuge.

In selected locations part of the land is converted into pondbund systems for aquaculture and agricultural research purposes. The rest of the land which is mostly subjected to diurnal inundation during high tide forms the site of fish and shell fish seed collection. The bunds are planted with coconut palms, about 600 numbers of which are nut bearing.

The station imparts practical training on brackish water fish culture for B.F.Sc. and M.F.Sc. students of the College of Fisheries, Panangad. The station also involves in research work to develop appropriate farming techniques for better production from unit area. In addition it is also the mandate of the station to supply commercial brackish water fish seed to the farmers and other research institutions. Training programme on brackish water aquaculture and utilization of marshlands for agricultural purposes are routinely conducted.

Station Head

': Dr. K.S. Purushan, Associate Professor (Aquaculture)

i. 3

Staff position

Category/	No. of posts			
Designation	Sanctioned	In position	Vacant	
, 1	2	3 .	4	
Scientific staff -		-		
Assoc. Professor	1 -	1	· _	
Asst. Professor (Aqua) 2	2		
	· · · · (1	Assoc. Prof. (Ac	jua) —	
Asst. Professor (Ag.)	- ' 1	i		
	(1	Assoc. Prof. (Ag	r.) —	
Technical staff				
Farm Assistant Gr. II	1	1		
Fieldman (Fisheries)	1	i	· 5	
Pump Operator	1	1	_	
Laboratory Asst.	1	, 1		
Field Assistant	2	2		
Sr. Research fellow	2	· 2	Free	

1	2	3		4
Administrative and supporti	ng staff			
Admn. Assistant	1	1		_
Asst. Gr. I	1	1		
Asst. Gr. II	1	1		_
Typist	1	1		_ '
Peon	1	1		_
Staff on working arrangen	ient .	,		•
Driver	1	1	·	

Faculty Improvement Programme

New post sanctioned/created shifted : Nil

Scholarship awarded to staff/Deputation of staff for higher studies : Nil

Details of Seminars/Symposium/Training attended by staff

Dr. K.S. Purushan, Assoc. Professor (Aqua.) & Head of Station attended a workshop on Coastal Aquaculture under the auspices of NATP ((ICAR) held on 29th & 30th Nov.1996 at the Conference hall of TAN & VAS, Chennai, by CIBA Participated in the discussion on 'Peoples' Fish Culture Programme at Secretariat, Thiruvananthapuram, under the auspices of Fisheries Minister, Government of Kerala on 4.1.97

Delivered a Keynote address on 'Paddy-cum-Shrimp Culture in Kerala' in a seminar at IFP, Ernakulam under the auspices of Department of Fisheries, Kerala on 6.2.97.

Handled the topic 'Janakeeya Matsyakrishi' at Yathra Auditorium, Ernakulam under the auspices of Department of Fisheries, Kerala, Thiruvananthapuram.

Dr. M. M. Jose, Assoc. Professor (Aqua.) attended the National Training on Farm Journalism conducted by the C. T. I. KAU, Mannuthy during 14-21 January 1997.

Involvement of staff in Academic Programmes

Offered classes for B. F. Sc. and M. F. Sc. students of College of Fisheries, Panangad. Question paper setting for B. F. Sc. course.

Farm Revenue

Year : 1996-97

Receipts: Rs. 1,46,990 lakhs Expenditure: Rs. 18,92,795.55 lakhs

Important visitors

Name and address	Furpose of visit	Date of visit
· 1	ż ,	3
Dr. P. Nanmalwar, Sr. Scientist, CMFRI, Madras and a team of students	To understand the ongoing research activities	15-4-96
Prasanth, R., Jr. Manager (projects) Kerala State Industrial Development Corporation, Kochi	To visit the Station	10-9-96
General Council members, KAU	Station visit	16-1-97

4. FACULTY OF AGRICULTURAL ENGINEERING AND TECHNOLOGY

4.1 KELAPPAJI COLLEGE OF AGRICULTURAL ENGINEERING AND TECHNOLOGY, TAVANUR

The College campus is located in Tavanur village on the Southern Bank of Bharathapuzha in Malappuram District 7 km. west of Kuttippuram. The campus is the seat of Rural Institute which was established in July, 1963. The Institute was taken over by the Kerála Agricultural University on 12th December, 1978 under section 59 of the KAU Act of 1971. The Institute was renamed as Institute of Agricultural Technology and it was functioning as one of the campuses of the University. The University subsequently opened the Faculty of Agricultural Engineering and Technology on 2nd October, 1985 and the Institute was upgraded and renamed as 'Kelappaji College of Agricultural Engineering and Technology' after the famous Gandhian Social Worker and Sarvodaya leader Sri. K. Kelappan. The total area of the campus is 40 hectares.

Dr. K. John Thomas continued as Dean i/c.

Departments

Department of Land and Water Resources and Conservation Engineering.

Department of Irrigation and Drainage Engineering
Department of Farm Power, Machinery and Energy
Department of Supportive add Allied Courses of Study
Department of Post Harvest Technology & Processing

Staff position

Category/Designation	No.	No. of posts		
,	Sanctioned	In position	_	
1	2	3	4	
a) Scientific Staff				
Dean	1	1.		
Department of LWRCE				
Professor	1	<u> </u>	1	
Associate Professor	2	 •	2	
Assistant Professor	5	4	1	
Department of IDE				
Professor	1	-	1	
Assoc. Professor	2	2		
Asst. Professor	5	. 4	1	
Department of FPME		~		
Professor	2	1	1	
Assoc. Professor Asst. Professor	3 8	-	3	
	8	5 ,	3	
Department of PHT & AP	_			
Professor Assoc. Professor	1 2		1	
Asst. Professor	4	1 2	1 · 2	
Department of SAC	•	· 4 .	4	
Professor	· 2	1 .	,	
Assoc. Professor	2	2 .	1	
Asst Professor	10	6	4	
Instructional Farm				
Assistant Professor	3	1	2	
ICAR-FIM	-	-	4	
Assoc. Professor	1	1 .	_	
Asst. Professor	1	1	_	
Plasticulture Development	t Centre			
Assoc. Professor	- 1	1	_	
Asst. Professor	1	i ,		
AICRP on Energy Require	ments in Agricu	ılture Sector		
Assoc. Professor	1	1		
Asst. Professor	1	1	_	

	1	2	3	4
b)	Technical/Administrative as	nd suppor	ting staff	
	Sr. Administrative Officer	1	1	_
	Section Officer	4 '	4	_
	Seln. Grade Assistant	1	1	
	Sr. Grade Assistant	2	2	_
	Asst. Gr. I	3	3 '	_
	Asst. Gr. II	6	5 .	1
	Sr. Office Supdt.	~ 1	1	. <u> </u> -
	Seln. Gr. Typist	Ī	1	_
	Sr. Gr. Typist	1	1	
	Typist Grade I	1	1	_
	Typist Grade II	2	2	1
	Research Asst.	1	- !	
	Reference Asst.	' 1	1 - ~	_
	Library Asst.	i		·
	Draftsman (Civil)	1	_	1
	Draftsman (Mech.)	1		î
	Technical Supervisor	6	6	_
	Trade Asst. (Ele.)	1	1	_
	Trade Asst.	; 3	_	3
	Seln. Gr. Technician	3	`, 3	3
	Sr. Gr. Technician	. 1	1	_
	Technician Gr. II	4		4
	Pump Operator,	-,	2	
	Driver LDV	2 3	3	_
	Matron	1	1	_
	Hostel Manager	1	_	1
	Lab Asst. Gr. I	1	1	1
	Lab. Asst. Gr. III	e	1	·
	Farm Supervisor	Ů		۷ .
	(Vety.) Gr. I	1	1.,	
	Farm Assistant	_	- 1.5	
	(Vety.) Sel. Gr.	1	1	
	Farm Supervisor (Agri.)	3	3	—
	Farm Asst. (Agri) Gr. I	2	2	'
	Gardener	1	1	-
	Class IV	15 1	11' 1	4

Faculty Improvement Programme

New posts sanctioned/created/shifted

Dr. Ganesan, V rejoined after deputation for higher studies. Sri. Levan, K. V., Asst. Professor (Soil & Water Engg.), KVK, Manjeswaram joined on working arrangement.

Smt. Renukakumari, J rejoined after leave for higher studies. Smt. Sasikala, D rejoined after leave for higher studies

Prof. C. P. Muhammed rejoined after leave for employment abroad.

Scholarships/deputation awarded to staff for higher studies

Miss Sreekala, G., Asst. Professor got admission with fellowship for higher studies in United States.

Details of Seminars/Symposium/Training attended by staff

Dr. (Mrs.) E. Komala Amma attended a refresher course of 3 weeks duration at Cochin University of Science and Technology.

Dr. (Mrs). K. M. Valsamma attended a training programme on "Application of Electronics in Agriculture at Central Institute of Fisheries Technology"

Sri. E. K. Kurien, Asst. Prof. attended a refresher course from 17th to 27th Feb. 1997 on "Land Drainage in India" at WALMI, Lucknow conducted by IILRI, Netherlands.

Sri. E. K. Kurien, Asst. Prof. was the Course Director for the one day training programme on 'Selection, installation and maintenance of pumps' for officers of Agriculture Department organised jointly by KAU and KAICO, Palakkad.

Farm Revenue:

Year: 1996-97

Receipts: 7.397 lakhs Expenditure: 27.056 lakhs

Important visitors

Name and Address	Purpose	Date of visit
1	2	<u>,</u> 3
Sri. V. K. Rejan : Hon'ble Minister for Agriculture.	Students Union inauguration.	16 6.96
Sri. Madhavan, Member, State Planning Board.	Official visit	13.2.97

l	2	3
Mr. C. P. Raman Chief, Indian Grain Storage Research Institute	Official visit	17.2.97
Sri. K. Gopalan, Member Executive Committee	Interview Board Member.	_

5. KERALA AGRICULTURAL UNIVERSITY SCHOOL

The Kerala Agricultural University School was started in 1981 with a view to provide school education to the wards of University employees in Mannuthy and Vellanikkara Campuses. Former Vice-Chancellor, late Dr. N. Kaleeswaran, IAS took special interest in establishing the school. It became a complete high school during the Academic year 1990-91. At present classes from I to X are functioning in the school. Creche and pre-primary classes are also functioning along with this.

Staff

Seventeen teachers and six non-teaching staff worked in this school during the period.

tior	ı
J	FFOT

. . . ,

•,	,	No. of posts		
Category/	Designation	Sanctioned	In position	Vacant
Headmast	er ,	1	1	
Teacher	Eng. Medium	7	5	2
	UPSA (Mal. Med	.) 3	3	-
•	UPSA (Hindi)	1	1	
	UPSA (Mal.)	. 1	,, , .	1
	LPSA (Mal.)	5	5	-
	HSA	7	_	7
Sp. teache	ers Phy. Edn.	1	. —	1
	Drawing	, I	_	1
	Music	. 1	_	1
-	Nursery School	Asst. 4	2	2
•	Ayah	4	2	2
	Class IV	3	['] 3	÷
	Asst. Gr.	1	1	*

Std.		Strength
LKG		26
UKG		41
I		41 '
II		71
III		66
IV		79
v		84
VΙ		94
VII .		101
VIII		97
IX ,	\	67
x	•	65
	Total	832

A science and nature club are functioning in the school. This school has won first prize in Maths exhibition and second place in science exhibition held at Thrissur Educational District level. Also won overall first place for Science and Maths exhibition held at Thrissur Edl. Dist. level. This school had also participated in State level Maths exhibition held at Thiruvananthapuram.

Master Sandeep Balan was the winner of A grade state level 3rd in Malayalam recitation and Kathaprasangam at the State Youth Festival held at Ernakulam.

Academic achievement:

Master Rajeev, A. C. was the 9th rank holder in the SSLC Examination for 1996-97 scoring 577 marks out of 600. Besides, the endowment named Dr. Kaleeswaran Memorial Award for SSLC Winners was shared by Master Rajeev, A. C., Kum. Bindu P. Bhasker and Master Abi K. Krishnan. The P. T. A. has honoured Master Rajeev, A. C. by presenting a gold medal.

Sports:

Master Balaji, Xth Std. student won the 2nd prize at the District Level School Sports in 100 meter race and third prize in 100 M hurdles.

Scout and guides:

One Scout and seven guides won the Rajapuraskar award for 1996-97.

Savings:

Rs. 65,000 were deposited at National Savings Scheme collected from the students.

PTA:

The Parent Teachers Association has been working at the School actively. Dr. Prabhakaran Nair, Professor, Veterinary College was the President of PTA.

Extension

The basic extension education role of the University is to make available useful information based on the findings of research, to the farmers and the general public through mass media and the concerned development departments.

The Directorate of Extension is responsible for the extension, education activities of the Kerala Agricultural University. The Communication Centre, the Farm Advisory Service and the Central Training Institute which form the main constituents of the Directorate of Extension spearhead the frontline extension activities of the University and implement by themselves, and through constituent research stations and educational institutions under KAU.

The Krishi Vigyan Kendras (KVK) sponsored by the ICAR and the Village Adoption Programme are other Transfer of Technology programme implemented by the KAU.

Dr. E. Tajuddin continued as the Director of Extension upto 9.8.'96. Dr. K. Rajamohanan took over as Director i/c with effect from 12.8.'96.

Communication Centre

information communication through various media is the major activity of the Communication Centre which comprises the Farm Advisory Service, the Information Unit, Exhibition and Graphic service and the Publication Unit. Dr. P. Varadarajan Nair, Professor & Head continued as the Head of the station. The major activities of the Communication Centre during the period are given below:

Farm Advisory service

Consultancy service to farmers

Advice on various problems encountered in agriculture, animal husbandry and fish culture was given to 592 farmers in person. Replies were also sent to 290 letters seeking advice

on agriculture and allied subjects through mail. Besides diagnostic field visits were also conducted during the period under report.

Six radio talks on agriculture and allied subjects were also broadcast through the AIR.

Seminars conducted/attended

Scientists of Communication Centre, Mannuthy served as resource personnel in the farmers' seminars organised at several places in collaboration with KHDP, Department of Agriculture and several other agencies. Scientists of Communication Centre, Mannuthy attended the seminar in connection with the Village Adoption Programme of II ward, Ollukkara Panchayat. In the Village Adoption Programme farmers were given banana suckers and necessary technical advice.

Information unit

The main function of the unit is to provide information support to technical personnel and dissemination of information to the farmers through mass media. Feature articles were published in leading malayalam dailies in their agricultural columns.

Staff position

	No. of p	•		
Designation/Category	Sanctioned post	In position	\[Vacant	
1	2	3	4	
Scientific staff				
Asst. Professor (Ag. Extn.)	2	1 .	- 1	
Publication Unit				
Assoc. Professor	1	1	_	
Asst. Professor (Agrl Extn.)) 1		1	
Asst. Professor (Ani. Sc.)	1	_	1	
Information Unit				
Assoc. Professor	1	1		
(Agrl. Extn.)				
Asst. Professor (Ani. Sci.)	. 1	. 1	_	
Asst. Professor	2	2	-	
Exhibition and Graphic Service			•	
Asst. Professor	3	1	Ź	

1	2	3	4
Farm Advisory Service			 -
Professor (Agro.)	1		1
Professor (Pl. Protection)	1	1	
Assoc. Professor (Agron.)	1	1	
Assoc. Prof. (Pl. Prot.)	1	1	_
Assoc. Prof. (Ani. Hus.)	1	1 /	_
	(on working arra	ngement a
<u> </u>	3	Livestock Farm,	Mannuthy
Assoc. Prof. (Entomology)	1	1	_
Assoc. Prof. (Poultry Sci)	1	1	. —
Assoc. Prof. (Hort.)	1	1	· —
Asst. Prof. (Plant Path.)	1	1	_
Asst. Prof. (Aqua)	1	1	
Asst. Professor (Ag. Chem. & Soil Sci.)	1	1	_
Technical staff			
Language editor	1	1	
Malayalam Translator	1	- 1	<u> </u>
Farm Supervisor	1		1
Technician (HG)	1	I	
Farm Asst. Gr. I	1	1	_
Photographer	1	1 .	•
Artist (HG)	1	1	_
Driver (LDV)	1	1	_
Dark Room Assistant	1	_ ,	1
Administrative & Supporting stafi	ŗ		
Admn. Assistant	1	- 1	
Section Officer	1	, 1	
Seln. Gr. Asst.	1	1 .	
Sr. Gr. Asst.	3	2	1
Assistant Gr. I	1	1	
Assistant Gr. II	1	1	
Peon	2	· 2 `	
Sweeper-cum-Attendant	1		
Typist Gr. II	1	1	

Faculty Improvement Programme

New post sanctioned/created/shifted : Nil

Scholarship awarded to staff/

deputation of staff for higher studies : Ni

Agro-clinics were conducted on all working days between 10 a. m. to 1 p. m. at the Information-cum-sales centre; Mannuthy by the Scientists of Communication Centre.

News related to Kerala Agrl. University were sent to All India Radio for broadcast on every Friday at 6.35 a.m. under the weekly programme കാർബിക സർവകലാശാലു വാർത്തകയ having a duration of 5 minutes. Six Radio talks were delivered through All India Radio by the scientists of Communication Centre.

A five day training programme on ornamental fish culture was conducted by the Asst. Professor (Aqua) for the unemployed youths.

Communication Centre organised an Onam Fair and Christmas Fair at the Information-Cum-Sales Centre, Mannuthy for the sale of banana bunches; coconut, vegetables, mushroom, meat, milk, their products and bye-products for the benefit of the public.

112 farmers actively attended (the Karshakadinam '96 organised by the Communication Centre on Chingam 1st.

Field visits were made to solve field problems of farmers in different parts of Thrissur, Palakkad and Ernakulam districts

Seven hundred and forty seven farmers visited the Centre and consultancy services were rendered to them on problems related to Agriculture, Animal Sciences, Fisheries, Sericulture and Apiculture. 445 letters received from farmers on various problems were replied promptly.

Seminars/Symposia/Training/works shops/summer institutes attended

Particulars	Place & date	Name of Scientists deputed
National Seminar on Farm journalism	Central Training Institute, Mannuthy 14 th-21 st Jan. 97	Smt. S. Estellita Asst. Professor
Workshop on rice production techno- logy for irrigated eco-system	Advanced training centre DRR, Rajendra Nagar Hyderabad 2nd-6th July 96	Dr. Suma Paulose Dr. M.K. Sheela
Masters training on IPM in rice	IASRI, New Delhi 17-22 M arch 97	, 21

Involvement of staff in Academic Programmes.

Teaching Activities

The following courses were handled by the teachers of the Communication Centre:

'Agriculture I	_	B.Sc	(Co	o-operation	& Banking students)
Agriculture II	_			, 11	,,
Ag. 202	_			"	11
Extn. 301	_			**	***
Microbiology 101	_	B.Sc.	(Fo	restry stud	ents)
Aquaculture 201		,,		1	
Agri. 201				sts & diseas ion & Bankir	
Agron, 606 (P.G. Course)	-	Colle	ge	of Horticult Vellanikk	

P. G. Guidance

Dr. P. Sreedevi, Assoc. Professor (Agron.) continued as the Chairperson for one M.Sc. (Ag.) student in Agronomy, College of Horticulture, Vellanikkara.

Revenue |

Year 1996-97

Receipts Rs. 3.31 (in lakhs) Expenditure Rs. 42.14 (in lakhs)

1 1

Extension Activities

Scientists of the Farm Advisory Service Unit handled classes on various subjects related to Agriculture, Fisheries and Animal Husbandry in 43 Agricultural seminars during this period. A total no. of 3300 farmers were benefitted by these seminars.

INFORMATION & SALES CENTRE, MANNUTHY

The Information & Sales Centre, Mannuthy was inaugurated on 16th July 1993 by Sri. K. Karunakaran the then Hon. Chief Minister of Kerala.

The Information & Sales Centre is a unique extension service venture of Kerala Agrl. University through which quality planting materials, livestock products like egg, meat

and meat products, fruit and vegetable products, ornamental fingerlings and KAU Publications are made available to the public through a single window. The supplies are supplemented by imparting technical advice through farm clinics and video films by the Scientists of the Farm Advisory Service of Kerala Agrl. University.

Dr. P. A. Joseph, Asst. Professor (Agron.) continued as the Officer in charge.

Staff position

Scientific			•
Category	Sanctioned	In position	Vacant
Assistant Prof.	1	1	
Administrative/Supp./Para tec	:hnical/minis	terial/other po	sts .
F. S. Gr. I (Agri.)		2* :	
F. A. Gr. I (Agri. & Vety.))	2* (+)	· —
F. A. Gr. II (Agri.)	_	· 1*	F
Class IV	<u></u>	·* '3* ·	
Data entry trainee	· -	. 2	_
* On working arrangem (+) 1 each	ent	.1 .	
Faculty Improvement Progra	mmie	×,	
New post sanctioned		: Nil	
Scholarship awarded to s	taff	Nil	
Details of Seminars/Sympo Training attended by staff		: Nil	

Dr. P. A. Joseph, Officer in charge offered the course Soil and Water Conservation (1+0) at the College of Horticulture, Vellanikkara.

Involvement of staff in academic programme :

Farm revenue

Year 1966-97

Receipts from sale : Rs. 52.63 (lakhs)

Total Expenditure for contingencies : Rs. 3.19 (lakhs)

Payment to supplying centres during : Rs. 49.52 (lakhs)

Payment of Comptroller (Excess of corpus of revolving fund) : Rs. 3.04 (lakhs)

Other activities at the centre

Farm Advisory Service arranged at the Centre during 1996-97: 306

Video Cassette projection arranged during 96-97 : 58
Correspondence to enquiries from farmers : 227
Subscription arranged for Kalpadhenu : 15

Onam bazar and X'mas Bazar 1996-97 were organised at Centre.

Publication by staff:

Popular articles : 12 Research paper ; Nil

KAU PRESS

The KAU Press was established to cater to the printing needs of the University. During the period from 1-4-1996 to 31-3-1997 162 works were received out of which 136 works were completed. This includes periodicals, publication, Kalpadhenu and other non-periodicals, technical ibulletins, leaflets, pamphlets, folders. Besides printing of Annual Administration Report (Malayalam and English) and Krishi Vigyan Manjari series—reprints of various publications were also undertaken and completed during the period. The printed forms and registers required for the University were also printed and supplied.

Sri. K. Rajappan, continued as the Press Manager throughout the period.

The Staff position is as given below:

•	No. o	of posis	_
Category	Sanctioned	In position	Vacant
Press Manager	1	1	
General Foreman	· 1	— ,	1
Sr. Foreman	· 1	1	
Proof Reader	2	2	
Computer	1	1	
Printer	6	4	2
Compositor	10	6	4
Copy Holder	2		2
Binder	$\overline{4}$	4	
Helper	ĺ	1	
Peon	1	1	_
Sweeper-cum-Attenden	t 1	_	1
Section Officer	ì	1	
Assistants	3	3	
Typist	1	1	_ _

CENTRAL TRAINING INSTITUTE

The Central Training Institute started in October 1986 as a special Sub Project II under NAEP-1 with the financial assistance of the Government of India has now become the nodal point of all the training activities of the University. The Government of India assistance terminated on 31.3:1991 and the Central Training Institute is being run as a University programme since then. The Central Training Institute has a Sub Unit at Vellayani and Pilicode.

The Central Training Institute, caters to the training needs of State Development Departments, Commodity Boards, Banks, Defence Department, Union Territory of Lakshadweep etc. The State level joint Training Committee under the Chairmanship of the Vice-Chancellor is the apex body to discuss and finalise the training proposals of the State Development Departments and other organisations.

Staff Position

No. of posts				
Category/Designation	Sanctioned	in po	sition	Vacant
Scientific	-	··· , ·	·	
Prof. of Extn.	1	1 .	vacant	upto 4.8.96
Assoc. Prof.	1	1		_
Asst. Prof	1	1		
Technical			•	
Farm Supervisor (Ag. Gr. I)	1	. 1	arraņģ	orking gement at , Mannuthy
Farm Asst. Sln. Gr.	1	1		,,
Driver	1 .	1		
Duplicator operator	1	1		
Administrative & Support	ing staff			
Section Officer	1	1 -		
Asst. Gr. I	2	2		
Sln. Gr. Typist	1	· 1		
Sr. Gr. Typist	1	1		
Peon	1	. 1		

Dr. Joy Mathew continued as the Head of office upto 4.8.96. Dr. G. Balakrishna Pillai took over on 5.8.96

Abstract of training programmes conducted during 96-97

De	partment/category	No.of training programn	Mandays nes
	Inservice Training programmes	<u> </u>	
	A. State Department of		•
	Agriculture'	10 '	591
	B. State Department of Animal Husbandry	15	4078
	C. Other Training Programmes	13	4014
	D. GAI Sponsored Training		
	Programmes .	3	200 plus IA
,	Vocational Training Programme	s 14	1826 plus IA
	Stipendary Training Programme	s 7	3960
	Total	72	20874 plus IA

IA: Information Awaited

Faculty Improvement programme

- a) New post sanctioned/created/shifted Nil
- b) Scholarship awarded to staff/deputation of staff for higher studies Nil

Details of seminars/symposia/training attended by staff

Dr. Joy Mathew, Associate Professor attended the training on "Motivation for work, Empowerment and Development" at IARI New Delhi from 24th October to 7th November 1996

Involvement of Staff academic programmes

Dr. Joy Mathew, Assoc. Professor was the Course Teacher for Course No. Ag. Extn. 709 Mass Media and Inter personal Communication during February 97 to July 97 of the College Co-operation, Banking and management, and

Major Advisor for Sri. M. Manoj, P. G. Student in Agrl. Extn, College of Horticulture, Vellanikkara.

Dr. Alexander George, Asst. Professor was Course Teacher for Course No. Ag. Extn. 406 programme Planning for VIIth semester B.Sc. (Ag.) students from 17.4,96 to 25.10.96

Revenue in terms of tuition fee of training programmes: Rs. 4,22,040

KRISHI VIGYAN KENDRAS (KVKs)

Krishi Vigyan Kendras financed by the ICAR are the important Transfer technology (TOT) centres under the Directorate of Extension. Other transfer of Technology programmes like National Demonstration, Lab to land programme, Operational research etc. have been integrated with the Krishi Vigyan Kendras.

There are three Krishi Vigyan Kendras financed by the ICAR viz. KVK Ambalavayal, Pattambi and Sadanandapuram.

The KVK at Manjeswar is fully financed by KAU and this KVK cater to training needs of the linguistic minorities of Kasaragod district.

KRISHI VIGYAN KENDRA, AMBALAVAYAL

The Krishi Vigyan Kendra, Ambalavayal financed by ICAR become functional in 1984 under Kerala Agricultural University primarily to cater to the needs of the tribal population of Wayanad District, who constitutes more than 20 percent of the population of the District. However, now its mandate has been extended to cover non-tribal farmers also. Sri. C. M. George continued as the Head of Office.

Staff position

· · · · · · · · · · · · · · · · · · ·	No.	of posts	
Category/Designation	Sanctioned	In position	Vacant
Scientific staff	. "	,	
Training organiser/ Assoc. Professor	1 .	1	
Training Associate/ Assoc. Professor	. 8	5	3
Technical staff	1 .		,
Training Assistants/ . Technical Assistants	. 5	5 .	²
Admn. & Supporting staff			
Section Officer	1	1	— ,
Assistant Grade II	1	<u> </u>	1
Typist Grade II	1	-	ì
Driver Grade II	1 .	ì	_
Tractor Driver	1		1
Class IV	7	7	-

Faculty Improvement programme

New post sanctioned/created/shifted : Nil Scholarship awarded to staff/deputation of : Nil staff for higher studies

Details of Seminars/Symposium/Training attended by staff

Name of Scientist	Seminar/symposium/ workshop/summer Institute to which deputed	Institution/period of deputation, name and duration of the course etc.
C. M. George Assoc. Prof.	Review cum Action Plan Meeting	KVK, Suttur, 8.4.96 to 9.4.96
K. Abdul Kareem Asst. Prof	Review cum Action Plan Meeting	KVK, Thalavadi, 19.9.96 to 21.9.96
Philipose Joshua Asst. Prof.	Training on tropical Mushroom cultivation	IIHR, Bangalore 16.7.96 to 20.7.96
T. P. Manomohandas Asst. Prof.	IDM in horticultural crops	IÍHR, Bangalore, 9.9.96
C. M. George, Assoc. Prof.	Integrated Pest Management	IIHR, Bangalore
Important visitors		
Name and Ad	ldress	Date of visit

Name and Address	Date of visi
Dr. M. Aravindakshan, Chairman, Coconut Development Board, Kochi	29.5.96
Superintendent of Police, Wayanad	, 15.6.96
Sri. V. K. Rajan, Minister for Agriculture	8.7:96
Sri. Varghese Vaidyar, MLA	8.7.96
Sri. D. H. Singh, Collector, Wayanad	9.11.96
Sri. C. S. Sreedharan, Joint Director, Central Coffee Research Institute, Chikamangalore	4.11.96
Sri. T. K. Ramakrishnan, Minister for Social Welfare and Fisheries	25.11.96
Smt. Radha Raghavan, MLA	30.1.97
Dr. K. V. Peter, Director, IISR	3.2.97
Sri. Y. R. Sarma, HSR	3.2.97
Sri. U.P. Singh, Chief Justice, High Court	22.3.97
Sri. N. Dinakar, Justice	26.3.97

Extension activities

		Number	Participants
Field days		6	146
Kissan Mela		1	120
Film shows		7	1911
Radio talks		3	
TV shows	,	10	•
Trainings :	Agriculture	40	1226
	Veterinary	11	416
	Vaccination	6	_

KRISHI VIGYAN KENDRA, PATTAMBI

The Krishi Vigyan Kendra, Pattambi, is functioning at the RARS Campus, Pattambi and has operational area in the whole of Palakkad district. This Kendra is an innovative first line transfer of technology project which aims at reducing the time lag between the generation of technology and its adoption by the farmers in the larger interests of the farming community and the nation. In order to achieve this aim, the KVK has to perform the following major functions through integrated approach.

- A. Farm Ádvisory Service
- B. On-Farm Research Programme
- C. Training Programmes

Dr. Girija Sankaranarayanan continued as the Head of the Kendra upto 2.11.96. Sri. V. P. Sukumara Dev held the charge from 3.11.96 to 31.12.96. Dr. P. Ahamed took over as Head of Office w. e. f. 1.1.97.

Staff position

	No. of		
Designation/Category	Sanctioned	In position	Vacant
Scientific, staff			
Assoc. Professor and	. Head 🕠 l	- I	_
Assistant Professor	8	. 7	1
Technical staff			
Training Assistant	5	5	_

<u>l</u>	2	3	<u>4</u>
Admn. & Supporting Staff			
Section Officer	1	1	
Assistant Grade I	1	1	
Typist Gr. I	1	1	
HDV Driver	. 1	1	
LDV Driver	1	1	
Peon	1	1	,
Class IV	6	6	_

New post sanctioned/created/shifted : Nil

Scholarship awarded to staff/

Deputation of staff for higher studies : Nil

Details of seminars/symposia/training attended by staff

Dr. P. Ahamed, Associate Professor and Mr. K.K. Remesan, Assistant Professor attended the National Symposium on Technological Advancement in Rice Production held at Kerala Agricultural University, Vellanikkara from 17th to 19th June, 1996 and presented two papers entitled 'Farmers criteria for selecting rice varieties give new insight to rice breeders' and 'Diffusion of farm mechanization technology—constraints and remedies'.

Dr. P. Ahamed, Associate Professor and Mr. K. K. Remesen, Assistant Professor attended the National Seminar on participatory Technology Development Organised by KHDP at Kochi on 21st and 22nd November, 1996 and presented a paper on 'Agro Ecosystem analysis for participatory planning of agricultural activities—an illustrative case'.

Mr. K. K. Remesan, Assistant Professor and Dr. P. Ahamed, Associate Professor attended the 8th Kerala Science Congress at Kochi and presented a paper "Management of major plant nutrients for producing quality rhizome of arrow root".

Dr. Manu Mohan, S, Assistant Professor had attended the World Poultry Science Congress held at New Delhi from 2nd—8th September, 1996 and presented a paper "Reversal of Aflatoxin induced liver damage by Turmeric Curcumin and chitosan".

Involvement of staff in academic programmes :- Nil

Training Programmes

No. of participants			
Discipline	M	F	Total
Agronomy	44	11	55
Plant Protection	38	2	40
Horticulture	150	50	200
Animal Husbandry	48	22	70
Home Science		50	50
Extension	51	4	55
Apiculture	60		60

Pilot Project on Technology Assessment and Refinement through Institution-Village Linkage Programme (I. V. L. P)

Farm Research over the years yielded several innovative technologies, but many are not reaching its beneficiaries in an "Adaptable and adoptable manner". There is a global move for evolving, assessing and refining farm technologies specific to match agro-ecological situations, farm families need and preference. The ICAR has thoughtfully set a novel trend by coming out with the unique Pilot Project on Technology Assessment and Refinement through Institution Village Linkage Programme (IVLP). It was to join with this noble and innovative venture that the Krishi Vigyan Kendra, Pattambi of the Kerala Agricultural University was listed by the Indian Council of Agricultural Research, as one of the implementing centres of IVLP. The project is underway in two adjacent desoms-Ezhuvanthala and Pattissery of Nellaya Panchavat of Palakkad District. Emphasis is given on family based, multidisciplinary. multiple intervention modules and multiple options. The crucial stages of the entire programme initiated and run in most participatory way. Each family enrolled in the project manages a series of interventions. There are 325 participating families in the project. The project will be continued for three years from 1/4/1996.

Lab to land Programme was implemented in Mannengode Village. There were 100 participating families. Eight enterprises were demonstrated for which the critical inputs were supplied through the programme. Trainings and follow up surveys were also conducted.

Village adoption programme was conducted in Mezhathur Village. Ten farm families were adopted and three enterprises were demonstrated.

Survey work for Village contact programme: All the families of Thathanampally village (520 families) were surveyed and an action plan was submitted to the Director of Extension-

Farm Revenue (Revolving fund)

Year	Receipts (in lakhs)	Expenditure (from revolving fund (in lakhs)
1996-97	154172.30	160428.50

KRISHI VIGYAN KENDRA, KOTTARAKKARA

The Krishi Vigyan Kendra under the Kerala Agricultural University (funded by the ICAR) sanctioned for the Kollam district, started functioning at Sadanandapuram in the campus of the Farming Systems Research Station with effect from 1st October, 1994. The Kendra located at 40 km east of Kollam town and 5 km south of Kottarakkara has the operational area covering the entire Kollam district. The Kendra was inaugurated by the Hon'ble Pro-Chancellor and the then Minister for Agriculture, Kerala, Sri. P.P. George on 29th October, 1994.

Dr. M. Oommen, Professor (Agron.) has been appointed as the Training Organiser of the KVK.
Staff deputed for training/workshop

Namé & Designation	Title of the courses/ workshop	Institute where deputed	Period of training/ workshop
Smt. P. Sukumari Assoc. Professor	National Workshop on Radio Chemistry and use of Radio Isotopes	Tamil Nadu Agricultural University, Coimbatore	15-7-96 to 26-7-96
Smt. Rari John, Asst. Professor	Entrepre- neurship Part III	TTC, Avinash- lingam, Institute for Home Science of Higher education	5-8-96 to 9-8-96
Dr.F.M.H. Kaleel. Asst. Professor	Regional KVK-meeting on-farm testing	MYRADA, Tirumalai, Periyar Dist. Tamil Nadu	19-9-96 to 21-9-96

Training achievements

A total of 37 training courses in different disciplines such as crop production, Plant protection, Horticulture, Animal Husbandry were conducted Home Science and farmers including 108 SC/ST participated. which 902 Eight training programmes were conducted in Horticulture (4) and Home Science (4) in which 137 rural youth including 45 SC/ST participated. For extension functionaries 5 training programmes were conducted in different disciplines such as Crop production, Horticulture, Animal Science and Home Science. A total of 230 extension personnel including 18 SC/ST attended the programme.

KRISHI VIGYAN KENDRA, MANJESWAR

The Krishi Vigyan Kendra, Manjeswar was established considering the general backwardness and preponderance of Kannada and Tulu speaking linguistic minorities of Kasaragod district. The Kendra envisages the imparting of periodic and timely training in skill oriented agricultural techniques and transfer of upto date knowledge on crop production technology to the farming community.

The Kendra started functioning with Kerala Agrl. University funds in a 'rented building at Thimmangurin Vorkady Village of Kasaragod District in October 1984. The proposals have been submitted for assistance from ICAR. About 19.10 acres of revenue land will be available for the Kendra at Dharmanagar in Vorkady village of Kasaragod district.

The Krishi Vigyan Kendra, Manjeswar was inaugurated by the then. Hon. Chief Minister of Kerala, Sri. K. Karunakaran on 12.10.85. The centre is presently conducting one day training classes on crop production technology to the farmers in local language. Apart from this, the staff of this centre also assist in the developmental activities of the other development agencies at this region. Vegetable seeds of improved varieties of KAU have been distributed to the farmers of this locality.

Staff position

Ca	tegory	Sanctioned	In position	vacant
a)	Scientific staff			
	Professor	· 1		1 -
	Asst. Professor (Fisheries	1	1	_
	Asst. Professor (Agri. Eng	gg.) 1	1	_
	Asst. Professor (Agrl. Ex	tn.) 1 -	1.	
	Research Associates (on consol. salary)	4	2.,	2
b)	Technical staff		•	,
	Farm Assistant Gr. I	1 .	1	. · ·
c)	Administrative and Suppo	rting staff	1	
	Section Officer	1.	1	
	Sr. Gr. Assistant	1	·	`1
	Typist Gr. II	· 1	:	1
	Driver Gr. III 🖰 💢 -	1	1	_
	Peon	1	<u></u>	l
	Watchman	- 1	<u>. </u>	1

Sri. P. Ramachandran Nair continued as the Head of office till 30.11.96. Dr. B. Santaram took over as Head of office w. e. f. 1.12.96.

Faculty Improvement Programme

New post sanctioned/created/shifted : Professor (Agrl. Extn.) shifted

Scholarship awarded to staff/deputation of staff for higher studies: Nil

Details of Seminars/Symposia/Training attended by staff: Nil

Involvement of staff in Academic Programmes

Sri. K. V. Levan, Asst. Professor is on working arrangement at K. C. A. E. & T Tavanur from 4.8.96 to 31.3.97.

Farm Revenue

Year : 1996-97 Receipts (in lakhs) : 0.001 Expenditure (in lakhs) : 12.93

Important visitors

Name & Address	Puropose of visit	Date of visit
Dr. S. Subramoniam, Director (TE) DOWD, New Delhi	Review of project work of Agro-forestry Models for Extn. & training	16.11.96
R. Sanal kumar, Asst. Director, State land use Board, Trivandrum	As part of follow- up work of IMSD Project	16.1.97

COLLEGE OF AGRICULTURE, VELLAYANI

Extension & other activities

Village Adoption

Under the Village adoption programme Kakkamoola ward of Kalliyoor Village continued as the selected centre. Training on vermicomposting was imparted to the beneficiaries. The follow up Programmes of the earlier works were also continued. 20 beneficiaries were selected from the adopted village and given training on mushroom cultivation and all of them have taken two crops of mushroom each.

Nirapara

As part of the curriculam, the final year B.Sc. (Ag.) students organised a one day farmers day and Kisan mela as Nirapara. Sri. P. J. Joseph, Hon. Minister of Education and Revenue inaugarated the function on 16.10.96.

NSS activities

The literary centre attached to the instructional farm for the farm labourers under the supervision of NSS continued during the period. The community centre at Kakkamoola and Palappur also continued its function during the period.

T&V programme

Resource personnel from different disciplines in this campus attended the monthly workshop of T&V Programme. The Scientists from the College attended a number of farmers seminar in Trivandrum district as per the decisions of the T&V meetings.

Teachers and PG Scholars from various department telecasted ten Doordarsan programmes and 40 radio talk highlighting scientific farming.

COLLEGE OF AGRICULTURE, NILESHWAR

Extension Activities

Scientists from the college took part in the farmers seminars, training programmes, Agrl. Extension Personnel training Mitra kissan training organised in the Northern region of Kerala. Totally 37 technical sessions were handled by the scientists during the period. They have also tried to popularise scientific agriculture through mass media also. 5 radio talks were broadcasted and 4 popular articles were published in the farm journals. Scientists are also involved in research for the improvement of cultivation in the watershed areas of Kasaragod and Kannur districts. Training was also imparted to farmers on aspects like mushroom cultivation, importance of bio-fertilisers, post-harvest processing of fruits and vegetables, floriculture, rearing of pigs, goats and rabbits and integrated pest and nutrient management.

Training and visit monthly workshops for Kozhikode Kannur and Kasaragod districts are regularly conducted at the station. Field problems are discussed and solutions to the problems are arrived at for speedy implementation. Besides diagnostic team visits to farmer's field are frequently made and the team makes on the spot recommendations to the farmers.

Demonstration plots for cashew are also maintained here. Better quality cashew grafts are also distributed to the farmers at the station. A vermi-compost production unit is also functioning and vermicompost is being supplied to farmers. Field problems brought by the agricultural officers were examined and remedial measures were suggested. A number of farmers from different places visited the farm to study the various activities and achievements of this station.

A Veterinary hospital is functioning here. An average of 120 cases are being attended and 45 inseminations done during the period. A sales-cum-information counter is functioning at RARS, Nileshwar through which various planting materials and information were made available to farmers.

RARS VELLAYANI

Extension & other activities

T & V monthly workshops

Monthly workshop (under T & V system) for the Thiruvananthapuram district was held at NARP (SR), College of Agriculture, Vellayani on 14.5.1996 and 13.6.1996 respectively. The Assoc. Director was the chairman of the workshop and Dr. V. Muraleedharan Nair, Professor of Agronomy is the chairman of the Diagnostic Team. Dr. A. Visalakshy, Professor of Agricultural Entomology, Dr. P. Karunakaran, Professor of Plant Pathology and Dr. P. Manikantan Nair, Professor of Plant Breeding and Genetics were the resource persons.

T & V monthly workshop for Thiruvananthapuram district was held at NARP (SR), College of Agriculture, Vellayani on 26.8.1996 and 13.9.1996 respectively. Dr. V. Muraleedharan Nair, Professor of Agronomy was the chairman of the workshop and also the Diagnostic Team. Dr. A. Visalakshy, Professor of Agrl. Entomology, Dr. P. Karunakaran, Prof. of Plant Pathology and Dr. P Manikantan Nair, Professor of Plant Breeding and Genetics were the resource persons.

T & V monthly workshop for Thiruvananthapuram district was held at NARP (SR), College of Agriculture, Vellayani on 14.10.1996, Dr. V. Muraleedharan Nair, Professor of Agronomy, Chairman of the workshop and also the Diagnostic Team.

T & V monthly workshop at RTT Centre, Kazhakuttom held on 13.11.1996 was chaired by the Assoc. Director NARP (SR) Vellayani. Dr. A. Visalakshy, Professor of Agrl. Entomology, Dr. P. Karunakaran, Prof. of Plant Pathology and Dr. R. Manikantan Nair, Prof. of Plant Breeding and Genetics were the resource persons.

Farm Advisory Services

Necessary advice was rendered to the visiting farmers by the scientists of the RARS, Vellayani, Muttacaud and Kalliyoor villages in Thiruvananthapuram district were adopted by RARS (SR) College of Agriculture, Vellayani.

COCONUT RESEARCH, STATION, BALARAMAPURAM. Extension Activities

. Village Adoption programme started from 1930-91 is being continued as per the approved programme of the Kerala

Agrl. University. Supply of planting materials for Rs. 3,000 has been given to the beneficiaries under the lab to land programmes.

The farmers from nearby and far off places coming to the station were given advice regarding scientific methods of cultivation of major crops grown by them and also regarding the plant protection measures required to be adopted for each crop against specific pests when incidence of pests and diseases were noticed.

Planting materials of coconut, pepper and banana have been produced in sufficient quantities for distribution to farmers on demand.

Training for B. Sc. (Ag.) students was held for two weeks in the station.

CROPPING SYSTEM RESEARCH CENTRE, KARAMANA

Extension Activities

Under the village adoption programme, the Scientists of the CSRC, Karamana offered technical advice to the local farmers in solving field constraints. Edakkode village is selected under the Village adoption programme. Ten farmers identified in the adopted village, and vegetable seeds and fertilizers were distributed to them.

Farm Advisory Service

Farm advisory service was rendered to the farmers of this locality on various field problems including bunchy top disease of banana, foot rot and stem bleeding in coconut, coreid bug, rhinoceros beetle and red palm weevil attacks in coconut, fruit rot diseases in jack, mango etc., and cultivation methods of mushrooms.

Farm Advisory Service rendered

A Farm Abvisory Service catered to the agricultural needs of the farmers of Kottarakkara as well as the adopted village of Ummannoor on matters relating to diseases/pests of various crops like vegetables, banana, coconut etc. Under the village adoption programme, the scientists of the station visited farmers' fields periodically and offered technical advice to the farmers.

Extension lectures delivered by Scientists?

A total of 129 extension lectures were delivered by the Scientists of the station. Topics covered included,

Profitable Nursery Management
Mushroom cultivation
Mushroom spawn production
Disease management in betelvine
Disease management in pepper
Procedure for soil sampling
Importance of soil testing in profitable agriculture
Profitable betelvine cultivation
Soil and water conservation measures for rainfed areas
Conservation of soil moisture
Green manuring and green leaf manuring
Improvement of soil health through organic manuring

Four training programmes were conducted on balanced integrated nutrient management

Vegetable cultivation.

RICE RESEARCH STATION, KAYAMKULAM

Dr. K. Sivan Pillai, Professor and Head served as the Chairman of the T & V workshop from April 96 to June 96.

Sri. N. R. Nair, Associate Professor & Head served as the Chairman of the T & V monthly workshop for June 96 onwards. Dr. Shyam S. Kurup, Assoc. Professor and Smt. Suja G, Asst Professor served as resource personnels.

A three day training on mushroom production was imparted to 15 beneficiaries. Classes were handled by Dr. B. Balakrishnan, Associate Professor, Dr. Geetha, D. Asst. Professor, College of Agriculture, Vellayani, Dr. Shyam S. Kurup, Associate Professor and Smt. Meenakumari K. S. Assistant Professor.

Fifty progressive farmers from Tamil Nadu visited the station during January '97. Activities of the station were explained to them by Sri., N. R. Nair, Assoc. Professor and Head and Dr. P. Sushamakumari, Assistant Professor (Agron.)

Dr. P. Sushamakumari, Asst. Professor, Smt. G. Suja, Asst. Professor attended the seminar organised by FACT and handled classes on rice production at Cheppad and Thazhakkara, respectively.

Dr. Sverup John, Assoc. Professor (Pl. Br.), attended the one day seminar organised by Krishibhavan, Cheppad and handled classes on sesamum cultivation on 15.3.97.

Smt. Meenakumari K. S. and Smt. Indira handled classes on biofertilizer and vermicomposting organised by Krishibhavan, K. S. Puram on 18.3.97.

A one day Agricultural seminar was organised by Rice Research Station, Kayamkulam in connection with the Frontline demonstration in oil seeds on 22.3.97. Discussions were led by Smt. P. Santhakumari, Retd. Professor, SRS Thiruvalla, Dr. Sosamma Jacob, Assoc. Professor, RRS Moncompu and all scientists of this station.

Village adoption programme was implemented at Kannamangalam village and 17 farmers were benefitted by this.

Appropriate technical guidance was given to the farmers who came to the station with specific problems relating to various crops.

SUGARCANE RESEARCH STATION, THIRUVALLA

The station actively participated by arranging a pavilion in the Mathrubhoomi Agricultural fair organised at S. C. S. High School ground, Thiruvalla from 8.4.96—12.4.96. About ten thousand people visited our pavilion. The sale proceeds from vegetable seeds, seedlings, KAU publications and sugarcane juice was Rs. 17,890. Among the stalls our stall, bagged 2nd prize for the best pavilion in the agricultural fair.

The station also participated in the Agricultural fair and flower show organised by Thiruvalla Horticultural development society scheduled from 21st-24th December 96 and good quality vegetable seeds and KAU publications were supplied. Research highlights were also displayed.

Dr. Alexander, Assoc. Professor took classes on organic farming and biofertilizers for farmers of KVK, Thelliyur. He has handled classes on organic farming to "Mithrakissans" at Regional Agricultural Research Station, Kumarakom and to the Agricultural Officers of Kottayam district. He took a class on Rice production technology to teachers of vocational Higher secondary school, Elappikulam. He took four classes on Sugarcane production in connection with a training programme on sugarcane production technology to the Agricultural Officers for four districts. He also handled two

classes on Integrated Nutrient Management systems to one each to the Agricultural Officers and Agricultural Assistants in connection with their in-service training at RATTC, Kochi. He also handled classes on organic farming to farmers at Rice Research Station, Moncompu and at Kadapra Krishibhavan and on Sugarcane production Technology at Kuttur Krishibhavan. He served as external examiner to the final viva voce of a Post Graduate student at Tamil Nadu Agricultural University, Coimbatore on 29.3.97.

Sri. Thomas Mathew, Asst. Professor handled a class on organic farming sponsored by Krishi Vigyan Kendra (CARD) to the farmers coming under watershed areas. He handled two classes, one on Integrated nutrient management to Agricultural Officers of Kottayam district and the other on Biofertilizers to Mithrakisans at Regional Agricultural Research Station, Kumarakom.

Dr. Babu George acted as the technical expert for Pathanamthitta district for assessing the quality of planting material produced in the pepper nurseries under the supervision of Department of Agriculture, Pathanamthitta.

Smt. Jessy M. Kuriakose, Assistant Professor took one class on vegetable cultivation in connection with the 'Haritha-jyothi' programme of the Vazhapally Grama Panchayat. She also offered three classes on vegetable cultivation to the farmers of Chengannur and Thiruvalla Municipality and a class on Sugarcane Breeding to Agricultural Officers of four districts during their inservice training programme at Thiruvalla.

REGIONAL AGRICULTURAL RESEARCH STATION, KUMARAKOM

Extension and other activities

Training conducted

Name of training	Period	Officers
1		3
Training programme on Extension Method to Officers of Rubber Board	October 96	15].
Workshop on Farm Trials to Officers of State Agril. Dept.	October 96	50
Fish breeding techniques to unemployed youth	June 96	9

1	•-	· 2	3	
Mushroom produ		July 96 to January 97	56	_
Mitrakisans trainii (watershed)	n g	September 96	50	•
A. R. S. Training		August to October 96	7	,

The station had participated actively, in the major exhibition 'All India Expo 1997' at Thiruvalla during January 1997 which had on laurels to the University. It was an attractive display of specimen, models, blow ups, etc. which attracted large number of people. Quality seeds (vegetables) seedlings, publications of the KAU, processed food like jam, squash, etc. were also available for sale to the public. An amount of Rs. 30,000 was realised as receipts from sales during the period. Amout 50,000 people had visited the pavilion which got the best pavilion award.

The station had also participated in three minor exhibitions at Shertallai, Kumarakom and Alleppey which attracted large number of rural people.

Village Adoption. Programme was implemented in Kumarakom Village as an important transfer of technology programme. 25 farmers were selected and organised extension programmes. Inputs were also distributed free of cost to the participants. One seminar was organised in the area, where in vegetable seeds, fish fingerlings, ducklings were distributed free of cost to the farmer participants along with farm technology.

A series of farmer contact programmes were organised at different places in and around Kumarakom and scientists from the station conducted discussion classes to groups of farmers. Six such camps were organised during the period.

All the scientists have involved in the democratic planning process by assisting the Gramasabha and District Councils in the preparation and scrutiny of various projects prepared by them. The Scientists are also members of different committees of the Gramasabha and District Councils.

Dr. K. G. Padmakumar, Dr. R. R. Nair, Dr. Anuradha Krishnan and Smt. A. M. Santha were awarded consultancy project to formulate a programme on rice-fish rotational farming in the wetlands of Kuttanad region in Kottayam District by the Govt. of Kerala.

- Dr. K. G. Padmakumar and Dr. Anuradha Krishnan served as State Level Resource persons for the Janakeeya Matsyakrishi programme.
- Dr. K. G. Padmakumar served as the member of the managing committee, FFDA, Kottayam.
- Dr. K. G. Padmakumar and Dr. Anuradha Krishnan served as district level resource persons for the Janakeeya Aasoothrana, programme for Kottayam and Alappuzha districts.

Dr. Anuradha Krishnan edited a book on the proceedings of the seminar on Integrated fish farming in upper and Northern Kuttanad.

RICE RESEARCH STATION, MONCOMPU

Training conducted

A state level training programme on rice production technology was conducted for Agrl. officers of the Department from 8-10 January. Dr. Sosamma Jacob, Assoc. Professor was in charge of the training.

T&V monthly workshop

Dr. L. Ramadevi, Dr. N. Remabai, Dr. D. Ambikadevi and Smt. Annie Koruth attended T&V monthly workshop of Alappuzha district every month.

Seminars

Scientists of the station participated in 22 Agrl. seminars organised by State Department of Agriculture and other agencies. Topics covered were Integrated Pest Management, Nutrient management, Rodent control, Biopesticides, Rice Pest Management, Pest & natural enemies of rice, Pesticide pollution, Rice cultivation in kari lands, Bio control agents, Insect pests of rice at Moncompu, IPM in vegetables, and Management of rice pests at Kayamkulam,

RICE RESEARCH STATION, VYTTILA

KAEP Workshop

Dr. K. Sivan Pillai, Professor as Chairman and Sri. N. K. Sasidharan, Associate Professor as resource personnel attended to the monthly KAEP workshop of Ernakulam District regularly. They also attended to the diagnostic team visit to solve problems brought from the State Department of Agriculture.

Agricultural seminars attended

The scientists of this station viz. Dr. K. Sivan Pillai and Sri. N. K. Sasidharan attended the agricultural seminars at Koothattukulam, Padinjarekkara, Kandanadu, Ooramana, Mulanthuruthy, Chottanikkara, Ankamali, Vyttila and Chennamangalam and handled classes.

Training classes handled

Sri. N. K. Sasidharan, Associate Professor handled classes for five training programmes at RATTC, Vyttila and one training programme each at the College of Agriculture, Vellayani and Rice Research Station, Vyttila.

Training programmes organised

A training programme on vegetable cultivation was organised at the seminar hall of the Rice Research Station, Vyttila. Twenty beneficiaries attended to the training programme. Dr. K. Sivan Pillai, Professor and Sri. N. K. Sasidharan, Assoc. Professor handled classes.

Pokkali land vikasana samithi

Dr. K. Sivan Pillai, Professor and Sri. N. K. Sasidharan, Assoc. Professor attended to a meeting of the Pokkali land vikasana samithi convened by the Ernakulam District Collector. The seed materials required for the samithi were supplied from the Rice Research Station, Vyttila.

Village Adoption programme

A font line demonstration on rice cum fish was conducted as one of the activities of the Village Adoption programme. A Pokkali field of one ha. at Chemmanakari was selected for this purpose. The rice variety Vyttila-4 was raised in the field. After the dismantling of mounds carp fingerlings at the rate of 2000kg/ha. was released. The simultaneous culture of fish didnot have any ill effect on the grain yield of paddy which was 2250kg/ha. The fish fingerlings attained a growth of 500 to 600g after nine months growth.

Twenty beneficiaries of the Village adoption programme were given kits containing seeds and fertilizers for vegetable cultivation. They were also given a training on various aspects of vegetable cultivation.

NWDPRA

Five field experiments were conducted at five watershed areas of Ernakulam Districts.

AMPRS. ODAKKALI

Participated in the conduct of training programme conducted at RATTC, Vyttila, RATTC, Kozha and RATTC, Palghat.

Participated in the Agricultural Exhibition and Seminar conducted at Kothamangalam. -Thrikkalathoor, Moovattupuzha and Thodupuzha.

Dr. J. Thomas, Assoc. Professor continued to serve as resource person in the NAEP of the Idukki District.

Good liaison was maintained between farmers, traders and industrialists from all over the country. Many farmers visited the station for obtaining first hand information on various aspects of medicinal and aromatic plants cultivation. Pamphlets on the general activities of the research stations as well as the cultivation of the various crops like lemongrass, palmarosa, and vetiver were distributed and regular enquiries were attended to.

The Information and Sales Centre established at the station continued to cater to the requirements of high quality seed and planting materials of the farmers of the area.

AGRICULTURAL RESEARCH STATION, MANNUTHY

Conducted a Labour Friendly Farm Mechanisation Exhibition from 17-8-96 to 20.8.96.

CASHEW RESEARCH STATION, MADAKKATHARA

Training on Cashew graft production

Training was imparted to 7 batches of farmers (20 trainees each) for 25 working days.

International training on cashew

Training given to a scientist from Venezula on Plant Breeding and Genetics as the job training in 'in vivo' techniques and agronomic evaluation of 'Anacardiums' for a period of 4 months. The training came to a close on 18.3.97.

Radio talks/Dooradarsan programme

New cashew varieties suited for the area, intercropping in cashew, varieties and propagation methods of Cashew, production of quality planting materials in cashew — by Dr. M. Abdul Salam.

Pest Management in cashew by-Dr. Susannamma Kurian.

BANANA RESEARCH STATION, KANNARA

Scientists of the station actively participated in the extension activities. A village adoption programme is being implemented annually. Under the scheme, farmers selected as beneficiaries are supplied inputs and given advice to take up improved cultural practices for banana. Timely technical information on different aspects of banana and pineapple cultivation is given through field visits, radio talks and postal consultancy. Field training is given to farmers, students, agricultural officers etc. Scientists of the station also handled classes in training courses, seminars etc.

Quality planting material of banana and pineapple are being supplied to farmers regularly. Under vegetable seed production programmes, seeds of amaranthus, bhindi, cucumber bittergourd and watermelon are produced.

CASHEW RESEARCH STATION, ANAKKAYAM

The station is implementing a Central Govt. project DOWD Project on 'Agroforestry Models for Extension and Training' at Mankada Block of Maláppuram District.

The survey for the scheme is in progress.

Establishment of model plots is in progress in all the Panchayats.

Training classes for the beneficiaries were conducted. The main topics covered under this scheme are Agricultural practices with special reference to Wasteland development, Intercropping potentials of cashew, Agroforestry — Principles and practices, Video show and discussion on soil conservation, Wasteland development and Agro forestry practices. Twenty five demonstration plots already laid out under Central Sector Scheme were managed.

Farmers were given advice on planting and cultivation aspect of cashew, pineapple, mango and ornamental plants.

The Scientists attended the District level seminars organised by Department of Agriculture and delivered lectures.

Thirty farmers were given training on land utilisation and nursery management.

CARDAMOM RESEARCH STATION, PAMPADUMPARA

Dr. Arthur Jacob J, and Dr. C. George Thomas, Assistant Professor handled training classes for the farmers of Kattappana. The training classes were organised by the Department of Agriculture, Govt. of Kerala.

Dr. Arthur Jacob J., Assoc. Professor and Head was nominated by the Spcices Board to select the best Cardamom Planter to give "Karshaka Shree" Award for this year.

Sri. M. Murugan, Assistant Professor delivered a lecture on 'Quality improvement of cardamom and pepper' on 12.11.96. The programme was organised by the spices Board.

Dr. Arthur Jacob J., was deputed to give expert advice to make a spices garden in front of R.D.O. Office, Devikulam.

Rajakadu pepper growing fields and pepper nursery were visited to give plant protection advices.

A talk on fungal diseases of cardamom by Dr. Arthur Jacob J., was broadcasted from AIR, Devikulam.

Dr. Arthur Jacob J., Assoc. Professor and Head and Sri Shajan V.R. Assistant Professor took classes on foot rot of pepper for Agrl. Officers, Agrl. Assistants and Farmers on 17.5.1996 in connection with District level seminar.

Dr. C. George Thomas, Assistant Professor delivered a talk on prediction of yield loss due to weed competition and economic threshold at 3p.m. on 31.5.96 at College of Horticulture, Vellanikkara to the students and staff.

COLLEGE OF VETERINARY & ANIMAL SCIENCES, MANNUTHY Village. Adoption Programme:

Implementation of the Village Adoption in Vilanganoor was continued. A seminar on Goat Management was organised five kids were supplied to SC/ST beneficiaries at Plavalappil Colony in Ward 10 of Ollukkara Village.

Experimental animals and animal feeds were distributed to various research stations, schools and colleges. The cost realised and shown below:

Albino rats	_	2393 `
Albnio mice		1482
Rabbit	_	101
Guinea pig	_	11
Feed	-	278 kg.
Revenue	Rs.	139229/-

Clinical specimen examined for various bacteriological, virological, mycological and immunological investigations.

The results and remedial measures were communicated to the agencies.

Revenue from sale of milk and milk products - Rs. 16,83,338/-

Provided Radiology facility to clinical cases referred from hospitals and field veterinarians. A total of 269 feed samples received from private and government agencies were analysed for proximate principles and mineral contents.

Details of postmortem diagnosis and other clinical examinations.

Poultry autopsy diagnosis	_	18811
Large animal autopsy diagnosis	_	1008
Rabies diagnosis		754
Histopathology	_	2352
Clinical pathology		550
Feed samples analysed for mycotoxin		235

Details of A.I. done and Revenue collected

Species	Total A.I.	Infertility treatment	Revenue collected Rs.
Cattle	1190	435	12700
Buffalo	94	15	1140
Goats	103	7	_

The staff members actively participated in disease investigation in different parts of the state. Organised and conducted A. H. seminar in different parts of the state, gave lectures on various aspects of A. H. in seminars organised by different agencies. Attended disease committee meetings. Regular vaccination was conducted against rabies R. D., F & M Fowl pox and other infectious diseases in various places, conducted surgical camp at various veterinary hospitals. Farmers and small scale feed manufacturers were given technical advise with respect to scientific feeding and preparation of balanced feed mixtures, conducted film shows on A. H. in farmers seminars organised at different places. Consultancy service has been extended to MILMA, CADA, PDDP Kalady, Agri. Hort. Society and various Co-operative Societies.

Out research Programme

· NSS Activities

The NSS of this College has two units of 150 student volunteers in each and two faculty members as part time programme officers.

Dr. A. Rajan, the Dean continued as the Chairman of the College Level Advisory Committee of the NSS and Dr.C. George Varghese, Professor and Dr. M. R. Subhadra, Assoc. Professor as the part-time Programme Officers.

Sri. Suresh N. Nair and Mr. Thomas Sebastian were the student Secretaries of the NSS during the period. The activities of the units are summarised hereunder.

UTA Programme

Prof. Paulson of St. Thomas College, Thrissur conducted a class on AIDS to ten student leaders (peer leaders) on 20.4.95 at the Veterinary College.

Ten student volunteers and the Programme Officers participated in the UTA Programme and seminar at the Horticultural College, Vellanikkara which was organised by that College at the University Level.

Camps

A Nature Camp at the Wild Life Sanctuary, Thekkady was organised with 40 student volunteers and two faculty members including the Programme Officer. 200 herds of cattle around the Sanctuary were inoculated against F & M disease at the request of the Forest Officials.

A one-day camp was organised in the adopted village at Vilangannur under Panancherry Panchayat. Vaccination against F & M disease, and Animal health and Infertility camp, a Farmers' seminar and a discussion class on AIDS and its prevention were the important events.

The unit organised a one-day programme at Choondal at the request of a social and cultural organisation of KARMA for vaccination of animals and birds against various diseases. A class on improved animal husbandry practices and disease control was conducted.

Regular activities

Blood donation

During the period under report, 35 students donated blood to the needy patients admitted in various hospitals at Thrissur.

Cleaning college premises

The student volunteers cleaned the College quadrangle spread over many days.

Seminars, meeting etc. attended

The Programme Officers attended conference convened by the Director of Extension on 20.1.1997.

Students Union Activities

The Students Union was inaugurated on 17.6.1996 by Dr. K. L. Mohanavarma. The arts club was also inaugurated on the same day. The same day, a campus theatre 'Arangu' was formed and started functioning by showing 'Laksha Lakshmi'. Organised and conducted a seminar and exhibition on snakes—facts—fans and fantacy. In association with K. V. Association and Elephant Welfare Society, a wild life seminar was conducted. A music night was organised on December, 1996.

The interclass arts and drama competition was conducted from December 29th to January 5th at the College Auditorium. The Arts Club presented a number of drama in different stages in and around Thrissur. Organised an exhibition of different pharmaceutical products on 2.9.1996. Conducted a book exhibition on 1.3.1997. Organised a 'Kavya Sandhya' by inviting eminent poets. The hobby centre organised and conducted different competitions as a part of Onam festival and Christmas. A fashion parade was also organised. Independence Day and Republic Day were celebrated and as a part of it an interclass competition of ''Bharathiyam'' was conducted.

DEPARTMENT OF PATHOLOGY Extension and other activities Services rendered to farmers

Desilians and an an it am a f	10011	
Poultry autopsy diagnosis	18811	
Large animal autopsy	1008	
Rabies diagnosis	754	
Histopathology	2352	
Clinical pathology	5 5 0	
Feed analysis for mycotoxin	235	

CATTLE BREEDING FARM, THUMBURMUZHI

Extension and other activities

Under the artificial insemination programme of the farm, inseminations were conducted on local farmers animals using semen of high quality pedigree bulls received from the Progeny Testing Programme, Mannuthy.

First Aid Treatment was imparted to local farmers' animals and farmers were given advice on various aspects of farm animal management.

CATTLE INFERTILITY SCHEME, KOZHIKODE

Regional Sales & Information Centre, Kozhikode

Agricultural Seminar & Exhibition

Arranged a colourful Exhibition and Sales Counter on 13th & 14th of September, 1996 in connection with 'Kisan Mela' conducted Kaiveli Krishi Bhavan at Kunnummel Block. Arranged a colour exhibition and Sales Counter on 14th October 96 at St. Joseph's High School, Kodancherry in connection with Village Adoption Programme conducted by NRCS, Calicut.

Participated and arranged a colourful exhibition from 12.2.1997 to 17.2.1997 (5 days) in connection with Calicut Flower Show conducted by Agri-Horti. Society.

A large number of fruit plants and vegetable seeds supplied to Calicut Corporation for "Green City" Programme.

FISHERIES COLLEGE, PANANGAD'

Extension and other activities

Radio Talks

Dr. Susheela Jose, Associate Professor gave a talk on 15.4.1996 in Malayalam, through All India Radio, Thrissur on the topic "varieties suited for freshwater fish culture".

Dr. D. D. Nambudiri, Associate Professor, delivered a talk in Malayalam on the topic "Use of preservatives in food" through the All India Radio, Kochi on 15.8.1996.

Dr. Susheela Jose; Associate Professor, gave a talk through AIR, Thrissur on 18.3.97 on the topic "Management of aguarium fishes".

Other activities

Dr. D. D. Nambudiri, Associate Professor, took a class on 'Packaging of food products' in a training programme organised by KHDP on 10.5.96.

Dr. Thresiamma James, Associate Professor, handled classes on the topic 'Development and use of biofertilizers' in a training programme organised by the RATTC, Vyttila on 7th and 18th June, 1996.

FISHERIES STATION, PUDÚVEYPU

Extension and other activities

Scientific fish farming is promoted among farmers through technical guidance (25%).

About 1,09,835 quality fish seeds were distributed to farmers and institutions towards developing fisheries in the state.

Implementing village Adoption Programme.

Plots of ten farmers from Elamkunnapuzha Panchayat were selected for demonstrating the integrated fish farming system. Inputs worth Rs. 300/-such as fish fingerlings and vegetable seeds were distributed among them.

Dr. Susheela Jose, Associate Professor and Dr. S. Shyama, Assistant Professor handled classes on 'Freshwater aquaculture' to the Farm Assistants of RATTC, Vyttila on 30th and 31st July, 96.

- Dr. Susheela Jose, Associate Professor and Dr. C. Mohanakumaran Nair and Smt. Aneykutty Joseph, Assistant Professors handled classes to the trainees of the UGC sponsored training Programme for the college teachers, at CMFRI, Cochin during the period from 10th to 12th July, 96.
- Dr. Susheela Jose and Dr. M. V. Mohan, Associate Professors handled classes on 'Freshwater aquaculture' to the Farm Officers of the RATTC, Vyttila on 9th and 10th July, 96.
- Dr. P. M. Mathew, Professor, 'Dr. T. M. Jose and Dr. K. G. Sunny, Associate Professors, handled classes under the training programme on 'Ornamental fish culture' conducted at Mannuthy during the period from 6th to 9th August, 96. The trainees visited the College on 9th August, 1996 for the practicals.
- Dr. P. M. Mathew, Professor gave a leature on Ornamental fish culture 'at CMFRI, Cochin on 17th August, 96 in their monthly 'fishermen-farmers-Industry-Institution meet' programme.

- Dr. Susheela Jose, Associate Professor delivered a talk on the topic 'Freshwater prawn farming with major carps' at the Prawn Farm Project complex, Vallarpadam on 10-9-96.
- Dr. D. M. Thampy, Dr. P. M. Mathew, Professors, Dr. M. V. Mohan, Dr. C. Mohanakumaran Nair and Dr. K. G. Sunny, Assistant Professors, handled classes in the training programme on 'Aquaculture techniques' for the Field Officers of the Kerala State Co-operative Agricultural and Rural Development Bank Ltd. conducted during the period 15-10-96 to 18.10.96 and 22.10.96 to 25.10.96 at Ernakulam.
- Dr. Susheela Jose, Associate Professor handled classes in the training programme on 'Freshwater aquaculture' for the members of the Vigyana Vikasa Club of the State Bank of India, Maradu Branch on 22.2.1997.

CHAPTER IV

Directorate of Students welfare

Dr. T. G. Rajagopalan continued as Director of Students welfare i/c upto 30.11.96.

Dr. U. Mohammed kunju took over as DSW i/c w.e f 1.12.96.

Staff position

	No.		
Designation/Category	Sanctioned	In position	Vacan
DŚW	1	1 (i/c)	-
Dy. DSW (Sports & games) (Acad & Councelling)	2	1 (i/c)	ĺ
Asst. Professor (Phy. Edn.)	1	1	
Section Officer	1	1	_
Office Superintendent	1.	1	
Assistants	3	3	
Typist	1	1	
Peons	2	.2	

Faculty Improvement Programme

New post sanctioned/created/shifted : Nil

Scholarship awarded to staff/

deputation of staff for higher studies : Nil
Details of Seminars/Symposium/ : Nil

Training attended by staff

Involvement of staff in academic programme :

The Physical Education courses in the College of Co-operation, Banking & Management and College of Forestry are being offered.

Farm Revenue : Nil
Publication by staff : Nil
Important visitors : Nil

Engineering Wing

The Engineering Wing of Kerala Agricultural University consists of the Directorate of Physical Plant with its Headquarters at Vellanikkara, one Engineering Division at Fisheries College (Panangad) and four Civil Sub Divisions one each at Tavanur, Mannuthy, Vellanikkara and Vellayani. The Mechanical sub division at the Main Campus, Vellanikkara and two Electrical Sub Divisions one each at Vellanikkara and Vellayani also come under the purview of the Directorate.

. ..

Sri. P. O. Thomas continued as the Director of Physical Plant during the period under report.

No major construction works were undertaken during the period 1996-97. Developments and improvements to the existing buildings, providing additional facilities, repair and maintenance etc. were paid special attention. Total plan expenditure for works during the period under report was Rs. 2,80,000,00.

KAU Estate and Campus Development, Vellanikkara

The KAU Estate was established in 1973 by acquiring an area of 379.56 ha and an area of 11.83 ha was additionally acquired during 1977-1981. The total area of the Estate was 391.44 ha.

Out of the total area of 391.44 hectares, 253.30 ha has been alloted to other schemes.

The area in possession is 138.14 hav

Production and Sales

During the report period a total quantity of 30956.870 kg of latex was produced and 9440 kg of latex sold.

Finance

Total expenditure for the year : 1996-97 Rs. 36,13,135 Total receipt for the year : 1996-97 Rs. 11,14,481

Campus Development, Vellanikkara

The Campus Development programme at Vellanikkara was established in the year 1990. In addition to the prime responsibility of developing the entire campus comprising of 396.79 hectares, this unit now undertake multivarious activities like arranging Agri fairs at various parts of the state, participation in flower shows and providing farm advisory services.

As a part of the Campus Development Programme the Central Nursery started its function in the main campus with effect from 31st December 1991. This sub unit provides services to the farming community by way of production and distribution of quality seeds and planting materials. The idea

of mass production of planting material was mooted by the Honourable Vice-Chancellor as a part of the technology transfer coupled with the support of State Agricultural Development policy.

Staff position

Category/	No.	٠.	
Pesignation	Sanctioned	In position	Vacant
1	2	3	4
Special Officer	1,	1 .	
Assoc. Professor	1	1	<u> </u>
Asst. Professor	· 2	2	-
Sr. Gr. Farm Supervisor	r 1	1	_
Farm Assistant	2	2	
Lab. Assistant	1	1	_
Office Superintendent	1	1	
Assistant	1	1.	•

Farm Revenue

Year	Receipts	Expenditure
Campus Development		21.16 lakhs
Central Nursey	28 lakhs	23.44 lakhs
Botanical Garden	1	. 2.19 lakhs
Standardization of Agro	•	
techniques for Anthurium	`	1.33 lakhs

Finance and Accounts

Smt. V. S. Bhanumathi Ammal, IA & AS (Rtd.) continued as the Comptroller. The three Internal Audit Circles—Northern, Central, and Southern—headed by Assistant Comptrollers also functioned during the year 1996-97.

Budget Estimates-1996-97

The University had adopted a budget estimate for Rs. 7151 lakhs for 1996-97, anticipating grant-in-aid of Rs. 4700 lakhs from the State Government (3200 lakhs under Non-Plan and Rs. 1500 lakhs under Plan), ICAR assistance of Rs. 457 lakhs and specific Scheme tide assistance of Rs. 241 lakhs from other sources like DBT, DST, EEC etc., internal resources of Rs. 526 lakhs and Rs. 1227 lakhs from pension fund, Loans & Advances, income from investment, opening balance etc.

Though an amount of Rs. 4700 lakhs was anticipated the State Government released only Rs, 3746.78 lakhs. However an amount of Rs. 226 lakhs released additionally as grant-in-aid to meet expenditure in the revision of wages of labourers. Thus total grant-in-aid from State Government amounts to Rs. 3972.78 lakhs.

Receipts and expenditure for 1936-97 are as below: Receipts:

Grant-in-aid from Government (in lakhs).			
Non-Plan	2772.78		
Plan	1200.00		
Grant-in-aid from ICAR			
and other agencies	656.532		
Internal Resources 440.320			
Opening Balance	311.456		

Total 5381.088

Appendix I

MEMBERS OF THE STATUTORY AUTHORITIES

GENERAL COUNCIL (31-1-95 to 31-1-98)

EX-OFFICIO MEMBERS

His Excellency the Governor of Kerala, Raj Bhavan, Thiruvananthapuram.

The Hon'ble Minister for Agriculture, Thiruvananthapuram.

The Vice Chancellor, Kerala Agricultural University,

Vellanikkara, Thrissur.

The Secretary to Government, Department of Agriculture, Government Secretariat, Thiruvananthapuram.

The Secretary to Government, Department of Rural Development, Government Secretariat, Thiruvananthapuram.

The Secretary to Government, Department of Finance, Government Secretariat, Thiruvananthapuram.

The Director of Agriculture, Thiruvananthapuram.

The Director of Animal Husbandry, Thiruvananthapuram.

The Director of Dairy Development, Thiruvananthapuram.

The Director of Fisheries, Thiruvananthapuram.

The Chief Conservator of Forests, Thiruvananthapuram.

The Registrar of Co-operative Societies,

Thiruvananthapuram.

The Dean, Faculty of Agriculture, College of Agriculture, Vellayani, P. O., Thiruvananthapuram.

The Dean, Faculty of Fisheries, College of Fisheries, Panangad, Ernakulam.

The Dean, Faculty of Veterinary & Animal Sciences, College of Veterinary & Animal Sciences, Mannuthy, P.O. Thrissur.

The Dean, Faculty of Agricultural Engg. & Technology, Kelappaji College of Agricultural Engineering & Technology, Tavanur, Malappuram.

The Director of Extension, Kerala Agricultural University,
Mannuthy, P. O., Thrissur.

The Director of Research, Kerala Agricultural University, Vellanikkara, P.O., Thrissur.

The Director of Students Welfare, Kerala Agricultural University, Mannuthy, P.O., Thrissur.

ELECTED MEMBERS

Members of the Legislative Assembly (5 Members)
(One from SC or ST)

Sri Johny Nelloor, MLA, House No. 8, Housing Colony, Moovattupuzha, Ernakulam.

Sri KC Joseph, MLA, Congress House, Sreekantapuram, Kannur.

Sri CP Narayanan, MLA. CP House, PO Kuttoor, Via Mathamangalam Bazar, Kannur-Expired.

K Kutty Ahammedkutty MLA, Masters House, Tanur PO Malappuram Dist. (from 24.8.96).

Sri KM Sooppy, MLA, Firoz Manzil, PO Panoor 670 692, Kannur.

Sri CN Jayadevan MLA, Chirukandath House, PO Manalur, Thrissur (from 24.8.96).

Sri K Raghavan Master, MLA, Kariyampathy House, Kalanadikolli, PO Pulpally, Sultan Battery,

Sri CP Balan Vaidyar MLA, Sumathi Nivas, Kannankara PO (Via) Chelannur-Kozhikode (from 24896).

Representative of Students of Post Graduate Courses (2 members)

Sureshkumar, S (94-17-02) M Sc. (Forestry) Student, College of Forestry, Vellanikkara, Thrissur (upto 30.10.96). Sudheesh, MV (94-11-06), M Sc. (Ag.) Student, College of Horticulture, Vellanikkara, Thrissur, (Terminated on 30.7.96).

Representative of Students of the Doctorate Degree Courses (1 Member)

Premachandran, PN (93-21-16), Ph D Scholar, Dept. of Soil Science and Agrl. Chemistry, College of Agriculture, Vellayani, Thiruvananthapuram.

Representative of the Students of the Graduate Courses (2 Members)

Ashok, B (90-03-69), IV Year BV Sc. & AH Student, College of Vety, and Animal Sciences, Mannuthy, Thrissur (upto 13.1.97).

Noushad Ali, KN (91-03-10) III Year BV Sc. & AH Student, College of Vety. & Animal Sciences, Mannuthy, Thrissur upto 28.7.97.

Representative of the Teachers (other than Deans) of Faculties (Not-more than four-One from each faculty)

Faculty of Agriculture

Dr FMH Kaleel, Assistant Professor, Krishi Vigyan Kendra, Sadanandapuram, Kottarakkara.

Faculty of Veterinary and Animal Sciences

Dr CB Manomohan, Associate Professor (NC), College of Vety. & Animal Sciences, Mannuthy, Thrissur.

Faculty of Fisheries

Sri CG Rajendran, Assoc. Professor (NC), Rice Research Station, Vyttila, PO, Kochi-19.

Faculty of Agricultural Engineering and Technology

Dr. PC. Antony, Associate Professor, Kelappaji College of Agricultural Engineering & Technology, Tavanur, Malappuram.

Representative of Non-Teaching staff of the University (1 Member)

(1 Member)
Sri Vijayan, R Binder, Kerala Agrl. University Hqrs
Vellanikkara 680 654, Thrissur.

Members nominated by the Chancellor Agricultural Scientists (2 Nos.)

Dr KV Peter, Director, National Research Centre for Spices, Kozhikode.

Dr (Mrs) MK Sheela, Associate Professor, Directorate of Extension, Communication Centre, Mannuthy.

Farmers (5 numbers) (One from SC/ST)

Sri A Sujanapal, MLA, Advocate, Kozhikode.

Sri MA Wahid, Advocate, Ginsalayam, RC Junction, Kunnukuzhi, Thiruvananthapuram.

Sri CV Narayanan, Chettakkulam House, Madakkathara PO Thrissur.

Sri K Gopalan, Congress House, Wayanad Road, Kozhikode-673011.

Sri Varghese Pereppadan, Mala.

One Non-official Representative from each of the following: Co-operation

Sri MV Kurien, Retd. Block Development Officer, Ollur PO, Thrissur.

Fisheries .

Sri K Rajan, Kinattinkalakath, Cheriyamangad, Quilandy Beach, Quilandy.

Animal Husbandry

Sri Prayar Gopalakrishnan, Prayar, PO, Oachira, Kollam,

One Non-official Representative of the Plantation Industry in the State

Sri V Saidu Mohammed Thangal, 'NISHANA' Near Najath Hospital, Ponnani, Malappuram.

Two Women Members

Smt Saraswathy Kunjukrishnan, Kalangara House, Kollam-13. Professor Savithri Lakshmanan, MP, Krishna Kripa, Peshkar Road, Irinjalakuda.

One Engineer specialised in Agricultural Engineering—Irrigation Sri P John Zachariah, HOREB 2 House, Perissery, Chengannur-689 121.

One Educationist:

Dr. K. Ramadas, Professor, University Veterinary Hospital, Kokkalai, Thrissur

Four Members to represent Agricultural Labour, of whom one shall be a member belonging to the Scheduled caste

Sri CN Govindankutty, Cherpu, PO. Thrissur,

Sri MK Purushothaman, Quarter No. F 2 B, Painavu P.O. Idukki

Sri Joseph Perumpilly, Chevoor, Thrissur-680 027

Sri PK Raghavan, Ex-minister, Ganga Bhavan, Sasthancotta, Kollam (from 25-1-97)

One Member to represent Plantation Labour in the State

Sri VV Shoukkathali, Vadakkevalappil House, Vellaramkunnu, Thenkara P.O. Mannarghat, Palakkad.

Two Members belonging to the Scheduled Caste and one member belonging to the Scheduled tribe, of whom, one shall be member of the Legislative Assembly of the state

Sri MP Thami M.L.A., Mangalaparambil, P.O. Paruthur, (Via) Pattambi, Pallipuram. (upto 30.12.96)

Smt Bhargavi Thankappan MLA, Thiruvananthapuram (from 31-12-96)

Sri PC Retnakaran, MM Hall, Peroorkada, PO.

Thiruvananthapuram

Sri Kurichipatta Gopalan, PO Bhoodana Colony, Pulpally, Wayanad '(Expired on 27-02-97)

Representatives of University Senates
Representative of University of Science and Technology

Sri C Haridas, Ex. MP, President, Kerala State Prohibition Council, Ponnani, Malappuram District.

Representative of University of Kerala

Sri CS Sasikumar, Anjana, Chinnappara, PO Vithura, Nedumangad, Thiruvananthapuram.

Representative of I.C.A.R,

Dr EA Siddique, Dy Director General (CS), ICAR, Krishi Anusandhan Bhavan, New Delhi-110 012

FOUR MEMBERS-ELECTED BY, THE PANCHAYAT (from 17.4.96)

Sri CM Damodaran, President, Panancherry Panchayat, Chellari House, PO Chuvannamannu, Thanipadam, Thrissur Dt.

Sri TV Govindan, President, Pilicode Grama Panchayat, PO Pilicode, Kasaragod Dt.

Sri G Venugopalan Nair, President, Keezhivilam Panchayat, Vanivanyilakam. Kunathallor, Chirayinkeezhu P.O Thiruvananthapuram.

Sri C. Thampu, President, Vadakkencherry Panchayat, Adiyathpadam PO, Ayakkade, Palakkad Dt.

ONE MEMBER ELECTED BY THE MAYORS, MUNICIPAL CHAIRMAN

Smt K Badarunnisa, Chairman, Malappuram Municipality, Malappuram Dt.

EXECUTIVE COMMITTEE (from 31.7.1995)

EX-OFFICIO MEMBERS:

The Vice-Chancellor, Kerala Agricultural University, Vellanikkara, Thrissur

The Secretary to Government, Agriculture Department. Government Secretariat, Thiruvananthapuram.

The Secretary to Government, Development Department, Government Secretariat, Thiruvananthapuram.

The Secretary to Government, Finance Department, Government Secretariat, Thiruvananthapuram.

OTHER MEMBERS

- i Member representing the I.C.A,R.
 - Dr EA Siddiq
 Deputy Director General (CS),
 Indian Council of Agricultural Research,
 Krishi Anusandhan Bhavan, Pusa, New Delhi-110 012.
- it Elected Dean of Faculty.

 Dr A Rajan, Dean, College of Veterinary & Animal Sciences,
 Mannuthy, Thrissur.
- iii Elected Teacher

 Dr CB Manomahan, Associate Professor (NC), College of Veterinary & Animal Sciences, Mannuthy, Thrissur.
- iv Elected Non-official members
- i General

Sri Johny Nelloor, M.L.A., House No. 8, Housing Colony, Moovattupuzha, Eranakulam.

Sri KC Joseph, M.L.A., Congress House, Sreekantapuram, Kannur-670 631.

Sri KM Sooppy, M.L.A., Firoz Manzil, P.O. Pannor, Mannur-670 692. (Terminated w.e.f. 13.8.96) Sri K Kutty Ahammed Kutty MLA, Master's House, Tanur, Malappuram (w.e.f. 30.11.96)

- ii SC/ST Reservation
 Sri K Gopalan, Congress House, Wayanad Road,
 Kozhikode-673 011.
- iii Women Reservation Smt Saraswathi Kunjukrishnan, Kalangara House, Kollam-13, Kollam District
- iv Elected student
 Sri Sudheesh MV M.Sc. (Ag.) student, College of
 Horticulture, Vellanikkara, Thrissur (Dt.) (upto 30.7.96)
 KN Noushad Ali, B.V Sc. & AH Student, College of
 Veterinary& Animal Sciences, Mannuthy (from 31.7.96).

ACADEMIC COUNCIL MEMBERS (From 28-12-93: to 27-12-96)

Ex-officio members as per Section 17 (1) (a) to (g) and (1) of KAU Act—Clause I of Statute I (a) of SRO No. 529/72

Dated 19-10-72

The Vice-Chancellor, Kerala Agricultural University Vellanikkara, Thrissur

The Dean, College of Agriculture, Kerala Agricultural University Vellayani, Thiruvananthapuram

The Dean, College of Veterinary and Animal Sciences Mannuthy, Thrissur

The Dean, College of Fisheries, Panangad, Ernakulam

The Dean, Kelappaji College of Agricultural Engineering & Technology, Tavanur, Malappuram

The Director of Research, Kerala Agricultural University, Vellanikkara, Thrissur

The Director of Extension, Kerala Agricultural University, Mannuthy, Thrissur

The Director of Students Welfare, Kerala Agricultural University, Mannuthy, Thrissur

The Registrar, Kerala Agricultural University Vellanikkara, Thrissur

The Director of Agriculture, Vikas Bhavan Thiruvananthapuram

The Director of Animal Husbandry, Vikas Bhavan Thiruvananthapuram

University Librarian, Kerala Agricultural University Vellanikkara, Thrissur

Members nominated by the Chancellor from among the Heads of Department of the Faculties (6 members) as per Section 17 (i) of KAU Act

Dr. Al Jose, Professor and Head (Soil Science and Agricultural Chemistry), College of Horticulture, Vellanikkara, Thrissur

Dr. K Pavithran, Professor and Head (Dairy Science)
College of Veterinary and Animal Sciences
Mannuthy, Thrissur

Dr. PS Pushkaran, Professor and Head (Extension) College of Veterinary and Animal Sciences Mannuthy, Thrissur

Sri. K Kerala Varma, Associate Professor and Head (Fishery Hydrography), College of Fisheries, Panangad, Ernakulam

Dr. KI Koshy, Professor and Head (Supportive and Allied Courses), Kelappaji College of Agricultural Engineering and Technology, Tavanur, Malappuram

Members nominated by the Chancellor, from among the staff of the Research Station of the University (3 members as Section 17 (1) (i) of KAU Act

Sri. KS Purushan, Associate Professor
Fisheries Research Station, Puduveypu, Ernakulam
Dr. U Jaikumaran, Associate Professor (NC)
Agricultural Research Station, Mannuthy, Thrissur
Dr. Sosamma lype, Professor, University Livestock Farm,
Mannuthy, Thrissur

Members nominated by the Chancellor from among the Scientists of Indian Council of Agricultural Research and/or its Institutions, from other Universities in India or from among well-known Scientists in India (not more than 5 members) as per Section 17 (1) (a) (iii) of Statutes SRO No. 529/72 dated 19-10-72.

Dr. MR Sethuraj, Director

Rubber Research Institute of India, Kottayam

Dr. R Gopalakrishnan, Retd. Director of Research

Kerala Agricultural University

Plot No. 228, Gate No. 4, Hill Gardens

Kuttanellur, Thrissur 680 014

Dr AD Damodaran, Director, Regional Research Laboratory (CSIR), Thiruvananthapuram

Dr V Subramaniam (Former Dean, Tamil Nadu Agricultural University), 66, Natarajapuram North, Tanjavur, Tamil Nadu. Dr SP Palaniappan, Professor of Agronomy, Agricultural College & Research Institute, Coimbatore-641 002.

ELECTED MEMBERS

Two members from among the Post-Graduate Students and one member from among the Research students of the University as per Section 17 (1) (i) of the KAU Act.

BL Biju Lal (93-11-55) M. Sc. (Ag.) (Soil Science & Agrl. Chemistry) College of Horticulture, Vellanikkara.

KJ Kuriakose(92-12-13)II M.Sc. (Hort.) Student, Department of Processing Technology, College of Horticulture, Vellanikkara. Dr H Subramanian (93-93-02) Ph. D. Student Department of Parasitology, College of Vety. & Animal Sciences, Mannuthy, Thrissur.

One member elected by the Teachers (other than the Dean) of each Faculty from among themselves as per Section (16) (1) (k) of KAU Act.

Dr MS Hajilal, Assistant Professor, AICRP on Agrl. Drainage, Karumadi.

Dr CS Jayachandran Nair, Associate Professor (NC)
Dept. of Horticulture, College of Agriculture, Vellayani.
Dr KN Muraleedharan Nair, Professor, Department of Surgery, College of Vety. and Animal Sciences, Mannuthy, Thrissur.

Dr KV Jayachandran, Asst. Professor, College of Fisheries, Panangad, Cochin.

Members Co-opted (not more than ten) to secure adequate representation to different aspects of Agriculture, as Section 17 (2) of KAU Act (Act 33 of 1971).

Dr AI Jose, Associate Dean, College of Horticulture, Vellanikkara, Thrissur.

Dr U Mohammed Kunju, Director (Acad. and P. G. Studies) KAU Hqrs., Vellanikkara.

The Associate Dean, College of Forestry, Vellanikkara.

Sri M Mohandas, Associate Dean i/c. College of Co-op. Banking and Management, Mannuthy, Thrissur.

Dr N Mohanakumaran, Associate Director, NARP (SR)

College of Agriculture, Vellayani.

Dr K Gopalan, Former Vice-Chancellor, Cochin University of Science and Technology, Chameli Chembukkavu, Thrissur 20.

Dr MJ Thomas, Associate Director, Directorate of Research KAU Hqrs., Vellanikkara

Dr PM Mathew, Professor (Fisheries Research)

College of Fisheries Panangad.

Associate Dean, College of Agriculture Pilicode Nileswar. Smt KK Santha, Assoc. Professor, Directorate of Extension, Mannuthy, Thrissur.

Members nominated by the Chancellor from among those connected with service in Agriculture, Animal Husbandry, Forestry, Fisheries, Dairy Development, Co-operation and Community Development Department (not more than five members)

Sri AJ Aviyil Joseph, 'Karshakasree' Ramachampadam Chungathara, Nilambur, Malappuram District.

Sri VR Krishnan Nair Former Conservator of Forests and Special Officer College of Forestry, Kerala Agrl. University, (D7, Udayasree, Jawahar Nagar, Thiruvananthapuram)

Sri Prayar Gopalakrishnan, Chairman, KLD & MM Board, Thiruvananthapuram.

Sri CN Balakrishnan, President, District Co-operative Bank, Thrissur

Sri Viswanathan, Mithra Nikethan, Thiruvananthapuram.

List of Academic Council members reconstituted incorporating the following elected members. w.e. f. 28.12.96.

ELECTED MEMBERS

Two members from among the Post-Graduate Students and one member from among the Research Students of the University as per Section 17 (1) (j) of the KAU Act.

Post-Graduate Students

Pramod G Krishnan (95-17-01), Post-Graduate Student, College of Forestry, Vellanikkara.

Sunil G (95-13-10), Post-Graduate Student, College of Vety. and Animal Sciences, Mannuthy.

Research Students

Sri PN Premachandran (93-21-16), Ph. D. Scholar, Dept. of Soil Science and Agricultural Chemistry, College of Agriculture, Vellayani, Thiruvananthapuram.

ELECTED MEMBERS

One member elected by the Teachers (other than Deans) of each Faculty from among themselves as per Section 17 (1) (k) of KAU Act.

Faculty of Agriculture

Dr PS John, Assoc. Professor (NC), College of Horticulture, Vellanikkara, Thrissur.

Faculty of Veterinary and Animal Sciences

Dr C George Varghese, Professor, Dept. of Parasitology, College of Vety. and Animal Sciences, Mannuthy.

Faculty of Fisheries

Dr TM Jose, Assistant Professor, College of Fisheries, Panangad.

Faculty of Agricultural Engineering and Technology

Dr Jobi V Paul, Associate Professor (NC), Kelappaji College of Agrl. Engineering and Technology, Tavanur, Malappuram.

Appendix II

SUB COMMITTEES OF EXECUTIVE COMMITTEE

Finance Committee	, , , , ,
Vice-Chancellor	Chairman
Sri Johny Nelloor, M. L. A.	* Member
Secretary, Agriculture	
Finance Secretary	
Comptroller	Member - Convenor
Planning and Development Committee	· •
Smt Saraswathy Kunjukrishnan	Chairperson
Sri KC Joseph. M. L. A.	Member
Sri Johny Nelloor, M. L. A.	U
Sri K Gopalan	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Dr CB Manomohan	11
' Sri MV Sudheesh	Member (terminated on 30.7.96)
Sri Noushad Ali KN	Member (wef 3.10.96)
Director of Research	Member-Convenor
Research Review Committee	
Vice-Chancellor	Chairman
Sri KM Sooppy, M. L. A.	Member (terminated
	wef 13.8.96)
Sri K Kutty Ahammedkutty M. L. A.	Member wef 30 11.96
Dr A Rajan, Dean (Vety.)	Member
Dr CB Manomohan	_ 11
Director of Research	Member - Convenor
Establishment Committee	``
Sri KC Joseph, M. L. A.	Chairman
Sri KM Sooppy, M. L. A.	Member (terminated wef 13.8.96)
Sri K Kutty Ahammedkutty M. L. A:	Member (30.11.96)
Sri Johny Nelloor, M. L. A.	Member
Smt Saraswathy Kunjukrishnan	3.1
Sri K Gopalan	**
Dr A Rajan, Dean (Vety.)	
Dr CB Manomohan	*1

Sri MV Sudheesh	Member (terminated wef 30.7.96)
Sri Noushad Ali KN	Member (wef 3.10.96)
Registrar	Member - Convenor
-	Member - Och vellor
Students Welfare Committee	
Sri K Gopalan	Chairman
Sri KC Joseph; M. L. A.	Member
Dr CB Manomohan	170
Sri MV Sudheesh	Member (terminated
	wef 30 7 96)
Sri KN Noushad Ali	Member from 3.10.96)
Director of Students Welfare	Member-Convenor
Works Committee	
,	
Sri KM Sooppy, M. L. A.	Chairman
,	(terminated from 13.8.96)
Sri Johny Nelloor, M. L. A.	Chairman
Cod W Yes Adam with the second	(from 19,10.96)
Sri K Kutty Ahammed kutty M. L. A	
Cont C	(from 30.11.96)
Smt Saraswathy Kunjukrishnan	Member
Sri M Gopalan	
Director of Physical Plant	Member Convenor
SUB COMMITTEES OF GENERAL	COUNCIL
Statute sub committee	
	•
Prof. Savithri Lakshmanan, M. P.	Cha ir p erson
Sri KC Joseph, M. L. A.	Member
Dr CB Manomohan	7*
Sri CG Rajendran	23
Dr F. M. H. Kaleel	
Dr PC Antony	,,
Sri R Vijayan	·,
Sri MV Sudheesh (upto 31.7.96)	**
Sri CS Sasikumar	9.9
Sri Prayar Gopalakrishnan	91
Registrar	Convenor
Assurance committee	•
Sri.C Haridas. Ex. M. P.	~:
	Chairman
Sri Joseph Perumpilly Sri PN Premachandran	Member
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Sri B Asok (up to 13.1.97)	23
Sri KN Noushad Ali (upto 28.7.97)	93
Sri S Sureshkumar (upto 30.10.96)	

Dr K Ramdas		Member
Dr MK Sheela		19
Sri Kurichipatta Gopalan	(Expired on 27.2.97)	
Registrar	, , , , , , , , , , , , , , , , , , , ,	Convenor

Accounts committee

Sri MA Wahid	Chairman
Sri CN Govindankutty	Member
Sri MK Purushothaman	11
Sri CV Narayanan	11
Sri VV Shoukkathali	
Sri Varghese Pereppadan	**
Sri Saidu Mohammed Thangal	71
Sri PC Retnakaran	
Sri MV Kurian	
Sri K Rajan	
Sri CP Narayanan, M. L. A. (Expired)	
Comptroller	Convenor

FACULTY RESEARCH COMMITTEE

1. AGRICULTURE

Director of Research, KAU	Chairman
Director of Extension, KAU	Member
Dean, College of Agriculture, Vellaya	
Assoc. Dean, College of Horticulture, \	Vellanikkara ,,
Assoc. Dean, College of Co-operation	ι,
Banking and Management, Vellanikkar	a ,,
Assoc. Dean, College of Agriculture, P	ilicode ,,
Assoc. Director of Research (AR&T),	•
Directorate of Research, KAU	11
Assoc. Director of Research (M&E),	
Directorate of Research, KAU	·
Assoc. Director of Research (Plg),	•
Directorate of Research, KAU	11
Assoc. Director, High Range Region,	
Regional Agrl. Research Station, Amba	
Assoc. Director, Regional Agrl. Resear	ch
Station, Pattambi	11
Assoc. Director, NARP Southern Region	n,
College of Agriculture, Vellayani	11
Assoc. Director, Regional Agrl. Resear	rch ·
Station, Kumarakom	•
Assoc. Director, Regional Agrl. Resear	ch
Station, Pilicode	

Special Officer, College of Forestry, Vellanikkara

Member

Heads of Departments in the Faculty of Agriculture

Project Co-ordinators

- Dr L Rema Devi, Professor & Head, Rice Research Station, Moncompu
- Dr PC Balakrishnan, Associate Professor, Regional Agricultural Research Station, Pilicode
- Dr L Rajamony, Head, Department of Olericulture, College of Horticulture, Vellanikkara
- Dr PK Rajeevan, Assoc. Professor & Head, Department of Pomology, College of Horticulture, Vellanikkara
- Dr EV Nybe, Assoc. Professor & Head, Dept. of Plantation Crops, College of Horticulture, Vellanikkara
- Dr V Muraleedharan Nair, Professor, College of Agriculture, Vellayani
- Dr R Gopimony, Professor, & Head, Dept. of Plant Breeding and Genetics, College of Agriculture, Vellayani
- Dr G Raghavan Pillai, Assoc. Director (Farms), Main Campus, Vellanikkara
- Dr G Sreekantan Nair, Professor & Head, College of Agriculture, Vellayani
- Dr Alice Abraham, Professor, College of Agriculture, Vellayani
- Dr A Visalakshy, Professor & Head, Dept. of Agrl. Entomology, College of Agriculture, Vellayani
- Dr K Rajmohan, Assoc. Professor, College of Agriculture, Vellayani
- Dr Jacob John, Assoc. Professor & Head, Dept. of Processing Technology, College of Horticulture, Vellanikkara
- Dr C Bhaskaran, Head, Dept. of Extension, College of Horticulture, Vellanikkara
- Dr SK Nair, Professor, College of Agriculture, Vellayani
- Dr M Oommen, Professor & Head, Farming Systems Research Station, Kottarakkara
- Dr P Balakrishna Pillai, Assoc. Director of Research (M & E), Main Campus, Vellanikkara
- Dr B Mohanakumar, Associate Professor, College of Forestry, Vellanikkara

Dr	VK Venugopal,	Asso	oc.	Pr	ofe	sor,	Co	llege	of Agriculture,
	Vellayani				٠.				

Smt NK Vimalakumari, Assoc. Professor, College of Agriculture, Vellayani

Sri VP Sukumara Dev, Professor, Regional Agrl. Research Station, Pattambi

ii) VETERINARY & ANIMAL SCIENCES

Director of Research, KAU	Fig.	Chairman
Dean, Faculty of Vety. & AS		Member
Director of Extension, KAU	•	**
Assoc. Director of Research (V & AS	S), KAU	17 '
Heads of Departments in the Faculty	7 of	51
Vety. & Animal Sciences)	
Professor (Farms)		f
Director, Vety. Research & Education	on ,	. ;,
Professor, Co-ordinated Project on	·	
Agrl. Byproducts		
Professor (Project Co-ordination, Ca	attle &	17
Buffaloe		• •
Professor (Research Co-ordination)		Secretary

Project Co-ordinators

- Dr KM Ramachandran, Professor & Head, Dept. of Pathology (Project Co-ordinator)
- Dr Sosamma lype, Professor & Head, Dept. of Animal Breeding & Genetics
- Dr A Jalaludeen, Sr. Scientist, AICRP on Poultry
- Dr Kunjukutty, Professor Dept. of Nutrition
- Dr P Prabhakaran, Professor & Head, Dept. of Vety. Public Health
- Dr K Prabhakaran Nair, Professor & Head, Dept. of Animal Reproduction
- Dr PJ Rajkamal, Asst. Professor, Dept. of Extension
- Dr PC Saseendran, Assoc. Professor, Dept. of Livestock Production Management
- Dr KT Punnoose, Professor, Dept. of Microbiology
- Dr KS Sebastian, Assoc. Professor, Livestock Production Management

iii) AGRICULTURAL ENGINEERING

Director of Research, KAU Chairman
Dean, Faculty of Agrl. Engg., KCAET,
Tavanur Member—Secretary

Director of Extension, KAU	Member
Head, Dept, of Irrigation & Drainage	• ,
Engineering, KCAET, Tavanur	11
Head, Dept. of Supportive and Allied	
Course, KCAET	, i
Professor of Agrl. Engg., College of	8
Agriculture, Vellayani	11
Professor Raghavan Nambiar, Head;	
of Engg., Thrissur	
Dr AN Namboodiri, Director, TBGRI,	
Thiruvananthapuram -	17
Project Co-ordinators	
Professor CP Muhammed, KCAET, Tavanur	
Dr (Mrs.) AN Remadevi, Head, Dept.	
of Agrl. Engineering, College of	
Agriculture, Vellayani	11
iv) FISHERIES	
Director of Research	Chairman
Dean, Fisheries	Member
Director of Extension, KAU	
Heads of Departments of the Faculty	. **
of Fisheries	**
Professor (Fish. Research)	Secretary

Appendix III

LIST OF STAFF AT HEADQUARTERS

Vice-Chancellor's Office

PS to Vice-Chancellor : VR Sankarankutty

(Addl. Charge)

PA to Vice-Chancellor

Peon

Sr Office Superintendent

Driver : Senior Deputy Registrar

(Admn)

Deputy Comptroller. Deputy Registrar (Admn) ': C Sasikumaran Nair

Deputy Registrar (Acad) : V Balagopalan Asst. Comptroller (DD & A): DA Shyamala Recruitment Officer

Asst. Registrar (Admn) I . : TV Rajasekharan Nair

Comptroller, IAC (CR)

Administrative Officer Gr. II: K Ravikumar

Directorate of Research

Labour Officer Section Officer

: K Sadasivan Nair

: P Haridasan

: EK Padmanabhan TK Abdulla

Ramachandra Bahadur

: CP Karunakaran Nair

: PM Chandran

: V Venugopalan

: T Aravindan

: A Kuriakose

(P & L) : K Chandramohanan

Asst. Registrar (Admn) II : P Gopinathan upto 1.12.96

B Rugmini Amma from 2 12.96

: MN Sasidharan from 16.7.96 : KK Subramanian

TA Zainaba Beevi

S Vanaja KI Chakkunny V Viswambharan

MN Sasidharan upto 15.7.96 VM Sarada from 17.7.96

Section Officer

KP Ramachandran Nair T Remadevi PA Lakshmi upto 14.7.96 PV Nalini 'M Rugmini upto 14.7.96 KK Satheesan KR Dileep Kumar D.S.W. KR Gauthami KV Sugunan KP Narayanikutty CV Santha A Subbalekshmy Ammal PV Sreekumaran D.O.E. Susy Mathew KP Saramma 🕆 PT Thankamani ---KP Mary NK Unnikrishnan upto 16.7.96 Sherly Bai George

from 17.7.96 EK Prabhavathy R Thankamony L Syamala upto 19.5.96 KU Prabhavathy from 20.5.96 CC Rosily N Vijayakumar D.O.R. PR Sreedevikutty D.O.R. N Usha Rani D.O.E. AK Lyla upto 26.5.96 KS Nirmala from 27.5.96 MA Urmiladevi Mercy John ' Abdul Karim VA Achuthan Reghupathy Chettiar from 24.6.96

K Kuttappan Achary

ML Anju from 22.2.97
Arun Sankar from 25.11.96
PD Geogi from 1.3 97
NS Kumaranandan
MB Manikantan
KM Mohamad Iqbal
KN Santhamma
FM Shaibu

220

Assistant Gr. II

Asst. Gr. li.

C Sunder raj . MV Suresh Babu Sandhya Rabindranath TG Umasankar from 4.3.97 'S Anitha from 24.2.97 D.S.W. D Sherly from 27.2.97 D.O.R. KS Jitha 1.4.96 to 14.5.96

Assistant Gr. I

PK Ananthakumari D.O.F. Dr. PB Abdul Kader MK Ajayakumar PK Ajayakumar T Ally ·Antony Joseph TM Asokan S Anil Kumar from 24.2.97

M Babu Varghese

· TP Baburaj GO Davis KP Gopi KD James KN Leela

CK Maria John Preleema Peter A Rajeswary PN Ramesh

- CP Raphy AV Rathidevi

C Raveendranathan

PM Sarada

PA Saraswathy

C Sivadasan P Sreekumar

KK Sudharma

K Sujathabai D.O.R.

PD Tonny upto 16.7.96

MA Ullas

IK Venugopal

∴FA Yousfali

'IA Liakath Alikhan D. O. R.

V Unni D. O. R.

Varghese, J. Ollukkaran

Senior Gr. Assistants

: PV Ambika from 17.7.96

KV Ammalukutty

A Anithakumari

TJ Babychan

Bobby Abraham D. O. E.

PV Chamunny from 29.6.96

FK Dalika

K Girindra Babu

K Hemalatha

TC lose

MV Lathika

MA Many

Mary Joseph

K Meera

PV Mohanan from 17.7.96

C Kunjunny 1.4.96 to 15.7.96

K Mohanan

P Mohini

VN Narayanan

MP Narmada

PP Prema

A Pradeep

KN Radhakrishnan

K Sreekumar

KB Sudha

, Sheela A Attokkaran D. O. R.

P Sreejith from 1.7.96

P. Sudha

KK Suneetha

PS Suresh Kumar

PJ Thimose

KP Vasanthakumari

NV Unnikrishnan Nair

1.4.96 to 15.5.96

Selection Gr. Assistants

: Baby Saroja

MN Chandrasekharan

V Chellamma

K Dinesan

K Haridasan

M Jaseentha

KC Joseph

GV Kumar

P Krishna Prakash

, TB Latha

KF Mathew

N Mary Joseph

KS Paul

S Ramachandran Nair

PV Ramani

KR Suresh

A Santhakumari

G Santhakumari

C Shirley Mathew PV Sreedharan

O Sethumadhavankutty

PL Tony

C Usha

P Vijayakumar

KS Vijayalekshmi

VR Santhakumari

TK Ambika D. O. E.

PK Pushpaja

K Hymavathy

from 10.7.96 to 28.2.97

Pool Officer

Senior Office Supdts

PO Elsy

KK Ramachandran Nair

V T Kurian

KN Santhakumari

TD Jose

VP Asokan

R Sadan

Reetha Joseph

PR Sarojini

* K Sathyavathi Bai

G Shanmughan

P Subhashini

PP Rosy

Office Superintendent/Typists

Office Supdt. (Hr. Gr.)

: MA Bhargavi

K Saraswathy Amma

Office Superintendent

PK Kousallia

S Sudha Devi upto 3.5.96

P Radha from 30.5.96 to 2.7.96

KM Mary from 2.7.96

S Sudhakaran Nair from 30.6.96

Sln. Grade Typist PK Easwary P Sarada · IA Surendran KA Valsala S Geetha Bai from 3.10.96 S Remani from 8/96 Sr. Grade Typist V Santhakumari upto 13.5.96 P Vasanthakumari upto 13.5 96 M Abdul Azeez PA Mumtaz KR Nirmala E Sathidevi KU Selmath P Sreemathi Kumari B Shiras AC Mancy from 20.8.96 Grade I Typist AJ Mary MA Rajini A Lalitha from 1.6.96 B Savitha Devi upto 13.5.96 S Rosemary upto 13.5.96 B Lalithakumari from 1.6.96 V Jayamony from 1.6.96 PI Ajith MK Sajany -Z Sareena 'IA Vincent KS Xavior CR Sasidharan S Fathima Beevi Grade II Typist CC Babu ; TJ Leena M Geetha from 17.2.97 P Ramani from 25.11.96 PS Sreekala from 24.2.97 Programmer TA Sebastian Dr Mollykutty George (Retired from 30.8.97) Lab. Assistants TN Aravindakshan, (Clerical Asst. (Hr. Gr.)

KT Rajan T Sasi VM Baby V Sreedevi VA Ittiara

Lab Assistant Gr. III

Lab Asst. Gr. III

Lab Assistant (Hr. Gr.) LDV Driver Gr. III

LDV Driver Gr. II

LDV Driver Gr. 1

HDV Driver Gr. 11

HDV Driver Gr. I

Binder (Hr. Gr.) Duffedar Class IV

AN Saraswathy **MS** Bhayana **Ihristy John** [Thankamani ?K Mohandas (M Abubakker TM Chacko NA Sukumaran KC Chinnan KO John Stephen KA Jebbar (on LWA) VR Chandran : KM Subramanian K Parameswaran PV Sudhakaran KK Thankappan VN Sankarankutty TK Govindan KV Kochappan IT Rappai VR Kochu R Vijavan KA Mathiri CP Kausalya · IR Vilasini PA Santhakumari MK Mukami A Kochammu, DOE PD Annamma, DOE P Sakunthala TV Santha K Santhakumari PS Indira KS Prema OG Santha M Lakshmikutty KK Nabeesa PN Indira EK Padmanabhan MN Vasu P Suresh Babu PS Retnakumaran KM Ponnumon TR Raveendran `KK Ramankutty

CG Sunesh
PE Thankappan
M Somasekharan.

AK Shylan VR Unni

PB Abdul Rahiman TA Unnikrishnan

A Ramachandra Bahadur (Watchman at V.C's Residence)

· 17 .

Sasidharan TK Abdulla Shibu Thimothy N Chandu

AP Manikkan

Bus Attendant Beer Bahadur Singh

KA Abdul Rasheed CR Velayudhan KC Krishnan VV Vasu M Jabbar

TG Radhakrishnan

Duplicator Operator CA Divakaran

nM Gopinathan K Saji Antony

Directorate of Students welfare, Vellanikkara

DSW i/c. Dr. TG Rajagopalan

Relieved on 30.11.96 AN

Dr U Mohammed Kunju

Taken charge on 30.11.96 AN

Dy. DSW i/c. OK Paul
Asst. Prof. EU Rajan

Section Officer XR Dileepkumar

Office Supdt. KM Mary

Relieved on 1.7.96 FN

Typist Gr. I CR Sasidharan
Sl. Gr. Asst. D Sreekumari
PV Sreedharan

Relieved on 10.4.96 FN

Gr. I Asst. IK Venugopalan

Relieved on 10.7.96 FN

Peon TA Unnikrishnan C Govindan

Relieved on 2.8.96 FN

: KP Jose Driver

Relieved on 10.12.96 FN

Gr. II Asst. : Sandhya Rabindranath

on leave

: S Sudhakaran Nair Office Supdt.

Joined duty on 1.7.96 FN

Gr. I Asst. V Unni

Joined duty on 16.7.93 FN

Peon PB Abdul Rahiman

Joined duty on 2.8.96 FN

Kum. S Anitha Gr. II Asst.

Joined duty on 24.2.97 FN

Directorate of Physical Plant

Director of Physical Plant : PO Thomas

: P Sreekumaran Exe. Engineer

> (on deputation from PWD reverted to present Dept.

on 4.1.97)

PR Govindan from 4.1.97

: A Basil Financial Asst. to DPP

: PM Vasudevan Personal Asst. to DPP : KP Sreedharan Section Officer

> P] John KS Natarajan

Assistant : S Valsala upto 17.12.96

EN Savithry

Jeslet Mercy upto 16.5.96

M Abdul Muthalavi KM Akber Ali

TK Sarada PM Latha

P Krishnakumari

from 12.6.96

Sr. Office Supdt. : PI Ittoop

Office Supdt. : S Radhamma upto 16.5.96

Typist : MK Parukutty

TM Meera

K Lilly Bai from 10.6.96

Blue Printer-cum-Stereo-

Vacant

Operator

Head Draughtsman

: KV Ajitha

Overseer/Draughtsman KH Abdul Rahiman

> V Unnikrishnan PA Meera Bai

TN Suresh Babu upto 18.6.96

B Mohammed Irshad CA James from 19.6.96

Driver PK Sasi

Peon CV Vijayan

> PI Kunjumol upto 31.7.96 MO Kochannum upto 31,7.96 NP Chandran upto 31.7.96 MK Vasudevan from 1.8.96 KV Chetty from 1.8.96

Electrical Sub Division, Vellanikkara

Asst. Exe. Engineer (Ele) PM James

JAJ Anto Asst. Engineer

B Lukose K Pramod

Technical Supervisor

...CA Varghese Assistant Naveen Narayanan OA Ushakumari

Typist Peon

KK Balan

Permanent Labourers

K Sreedharan retired on 31.1.97

T Suresh Babu KR Divakaran

Engineering Sub Division, Vellayani

Asst. Exe. Engineer : K Suresh Babu Asst. Engineer : AP Satheesan

'l post vacant

Overseer " V Harikumar

KH Mohammed Abdul Khader

VM Roy

Section Officer : K Parukutty Office Supdt. : P Lalitha Assistant : SG Girija

Driver : P Reghunathan Nair

Peon : [Soman

Electrical Sub Division, Vellayani

: EK Gokulan Asst. Exe. Engineer

Asst. Engineer : Vacant Typist : L Sobhana Kumari
Assistant : Ansamma Philip
Class IV : A Sathyan

Engineering Sub Division, Vellanikkara

Asst. Exe. Engineer : K Savy Joseph : C Vivekanandan M Vijayakumari

M Vijayakumari MV Chackochan

Overseer : KK Anilan

KN Satheesh

Assistant : T Jagadeesan
Typist : PA Mumtaz

Driver : MA Joseph

Peon : C Mukundan Nair Class IV : V Mohammed

Permanent Labourers : PK Arifa

VH Sulaika IR Balan KK Sudhi

KK Ambikavathy

Engineering Sub. Division,; Mannuthy

Asst. Exe. Engineer: : PR Govindan upto 4.1.97

MV Chackochan

from 4.1.97 onwards

Asst. Engineer : P Raman

'C! Sali

Technical Supervisor : PK Vijayan

TS Govindan

Overseer : S Rajendra Prasad

KG Ajith kumar KV Sunil kumar

Mathew M Kizhakoot

ET Lal

Pump Operator : MV Parameswaran

VR Parameswaran

TM Kesavan CC Velayudhan

Section Officer : C Suchetha : Indira Devi

Sr. Office Supdt./Typist Vacant

Peon : Man Bahadur

Permanent Labourers : PC Asokan

P Divakaran

PK Radhakrishnan PC Javakrishnan

KK Anandan

CR Hariharan Tampi

Engineering Division, Panangad

Exe. Engineer : P Sreekumaran (on deputation

> from PWD upto 4.1.97) PR Govindan (from 4.1.97)

Asst. Engineer : AP Satheesan

Overseer : Sabu Paul Mulerikal

> - -PT Jov MY Sunny SR Antony

Section Officer ; KM Vincent Pereira

Assistant : Prema B Nair

KB lava

Office Supdt. : TK Ponnamma

AP Chacko

Engineering Sub Division. Tavanur

Asst. Exe. Engineer : PM Mohamed Ismail

Asst. Engineer : 'TK Abdul Khåder

: KT Vasudevan

Overseer :.. P Manoi

AV Kesavan

, ET Lal (upto 13.5.96)

· CV Poulose VK Girishkumar CV Ambujam

Section Officer : C Assainar (upto 19.12.96)

P Unnikrishnan (27.12.96)

: S Ushadevi Assistant **Fypist** : A Mohamed Ali

Peon : KP Manikandan (expired on

17.4.96)

VV Jayan (relieved on 30.11.96) T Pankajam (joined on 2.12.96)

: PK Kunhiraman Driver

Mechanical Sub Division, Vellanikkara

Asst. Exe. Engineer : TK Sugathan Asst. Engineer (Civil) : KP Baburaj Asst. Engineer (Mech) : Vacant

Overseer : EA Radhakrishnan

Road Roller Driver : MK Bhaskaran
Pump Operators : KK Francis

: KK Francis YB Easaf A Narayanan KK Gopi

> PV Balakrishnan VK Ramachandran

KA George MS Mohanan

Assistants Y Rajas

MA Sahida Beegum

Typist ; VH Umaiva

Peon : Vacant

Permanent labourer : CR Chandran

KC Mathew

BV Viswanathan

KM Sunil KV Kamala

PJ Viswambharan

PK Mohanan

VV Thulasidharan

CS Pareeth

Appendix IV

LIST OF STAFF AT VARIOUS CAMPUSES

College of Agriculture, Vellayani

Department of Homé science

Prof. & Head : Dr (Mrs.) L Prema Assoc. Prof. : NK Vimala Kumari

Assoc. Prof. : 'Dr Mary Ukkuru' (Transferred)

Dr S Chellammal Dr S Syamakumari

Asst. Prof. : Soffie Cheriyan

B Presanna Kumari

M Rajani P Geetha

Subaida Beevi Dr PV Nandini

Technical Supervisor : N Ayyappan Achary

Sr. Gr. Typist : K Chandrakumar Class IV : S Suresh kumar

Permanent Labourer : Sarojam

Department of Agronomy

Prof. & Head : Dr MRC Pillai (on leave)

Dr G Raghavan Pillai

Assoc. Prof. : Dr V Muraleedharan Nair

Dr M Achuthan Nair Dr Kuruvilla Varghese

Shahul Hameed Dr R Pushpa kumari Dr VL Geetha kumari

Dr S Chandini

Asst. Prof. : M Meera Bai

L Girija Devi S Lakshmi

Dr Sansamma George

Senior Farm Supervisor (K Radhamma Trankachy

Farm Asst. Sr. Grade : K Justin Lab. Asst. Gr. I : KS Sanjeev

Gr. III : J David

Class IV C Raju

Lab. Asst. Gr. II : P Thankappan

Gr. III : N Sreedharan Nair

Office Supdt. (H. G.) : K Vimala

Department of Plant Pathology

Professor & Head : Dr P Karunakaran

Professor : "Dr S Balakrishnan Dr Susamma Philim

Dr Susamma Philip Dr Sasikumar Nair S Sasikumaran Dr S Bhavani Devi

Associate Professor : Dr CK Peethambaran

Dr B Rajagopalan
Dr B Balakrishnan
Dr Sivaprasad
Dr A Naseema

Assistant Professor : Pj Joseph

Dr VK Girija Dr Kamala Nayar Dr Umamaheswaran

Farm Supervisor : S Kamala Bai

Lab. Assistant : D Savithri Amma
R Sivanandan

C Premakumaran Thampi

Class IV KP Viswambharan

G Velappan Nair

Research Associate : Dr MG Vijayakumar Research Fellow : Carolyne Augustine

Instructional Farm

Professor & Head : Dr M Oommen

Assoc. Professor : Dr Harikrishnan Nair Dr Mothilal Nelfru

Dr Mothilai Nehri

Asst. Professor : D Geetha

Babu Mathew

Sr. Farm Supervisor : D Subhadramma
Farm Supervisor Gr. I : Raveendran Asari

Farm Asst. (Sr. Gr.) : I Garshan Harish kumar MS Krishnakumar (Gr. I) : Eldo Administrative Officer : Vincent Samuel Section Officer : Sreedevi Reghupathi Chettiar Assistant : Balachandran Nair Parameswaran Nair Department of Entomology Professor & Head : Dr A Visalakshi Professor : Dr George Koshy Dr G Madhavan Nair Dr K Sasidharan Pillai KS Remamoni Assoc. Professor : Dr Susamma Mathai Dr K Saradamma K Santhakumari Asst. Professor : T Jiji Typist : S Radhamma Farm Asst. : D Sivaprasad : B Ravindran Nair Peon K Valsala Kumari Prof. NARP (SR) Phase I ': Dr PB Gopinathan Lab. Asst. Gr. II : S Indira Kumari Assoc. Prof. (AICRP on : -Dr T Nalina Kumari Pesticide Residues Assoc. Prof. PA Rajan Asari Dr S Naseema Beevi Asst. Prof. ⇒Dr Thomas Biju Mathew Lab. Asst. M Monian R Ravindran Nair Assoc. Professor (AICRP , Dr MS Sheela on Nematode Pests) 🖰 🤍 Dr Arthur Jacob Asst. Prof. : KS Premila Assoc. Prof. (AICRP on S Devanesan Honeybees) Asst. Prof. 🐩 R Krishnakumar 🕜 Farm Asst. : KS Sujatha Lab. Asst. Gr. II : S Santha Professor (KHDP) : P Reghunath Research Assoc. : B Ramesh Kumar (RRI Scheme) Honey bee disease : Dr Bennet ICAR adhoc Scheme : KK Shailaja Research Assoc.

Department of Plant Breeding & Genetics

Professor & Head : Dr R Gopimony

Professor : Dr P Manikantan Nair

Dr ST Mercy

Assoc. Professor : Dr D Chandramony

N Kamalam

Dr SG Sreekumar
Dr DS Radhadevi
Dr Sunny K Oommen

Asst. Professor : Dr D Wilson Typist Sr. Grade : Lilly Bai

Farm Supervisor : CS Vijayakumar

Assistant on working arrange-

ment at I. F., Vellayani

Lab Asst.Gr. II Hr. Gr. : N Appu

Gr. III Hr. Gr. : A Johnson

Lab. Asst. Gr III : D Vijayakumar Hr. Gr. Peon : K Narayana Das A Arjunan Nadar

Lab. Asst. on DBT Project : C Gopalakrishnan

Assoc. Professor (NARP SR) : Dr P Manju

Assoc. Professor : KM Abdul Khader
Farm Supervisor Gr. I : D Sulochanan
Jones Charles

Assoc. Prof. AICRP (Forage) : Dr DI Suma Bai Asst. Professor : C Lekha Rani

Farm Assistant : David Dharmakumar

Department of Soil Science & Agri. Chemistry

Professor & Head : Dr Thomas Varghese
Professor : Dr Alice Abraham
Abdul Hameed

Dr Pushkala PA Korah

Dr C Sundaresan Nair

Associate Professor : K Babukutty

Dr VK Venugopal

Dr M Subramonia Aiyer

Dr P Rajendran Dr P Prabhakumari

Assistant Professor : Dr K Ushakumari

Dr PB Usha

Dr Usha Mathew

Assistant Chemist : G Sushama

S Vasundhara Bai

Technical Assistant : K Muraleedharan Nair

Lab. Assistant : N Sreekumaran

Prasannakumari

Typist : Lalithakumari
Class IV : Vasanthakumari

M Anilkumar N Thankappan Nadar

Research Associate : Seema Krishnan

N Sheeja Kurian

Department of Horticulture

Non-Plan

Assoc. Prof. : Dr BK Jayachandran

Dr CS Jayachandran Nai:

Dr K Rajmohan Dr GR Sulekha Dr M Abdul Vahab

Plan

Assoc. Prof. : Dr BR Reghunath

Dr Philipose Joshua

Asst. Prof. : Dr T Sabina George

Dr VL Sheela 👵

KHDP

Asst. Prof. : Dr VA Celine Research Assoc. : S Suneetha

Farm Supervisor Gr. I : D Vigrahanadhan

(Non-plan)

Farm Asst. (Sl. Gr.) : H Gopinathan Lab. Asst. Gr. II : L Samkutty

Lab. Asst. Gr. III : S Janardhanan Nair

A Anilkumar

Peon (Non-plan) : M Thankamma

Department of Animal Husbandry

Prof. & Head : Dr Skariah Oommem

Asst. Prof. : Dr R Vijayan
Dr Ani S Das

Farm Supervisor Gr. I : R Ramachandran Nair

(Vety.)

Gr. II (Vety.) C Prabhakaran

G Venu

L Devarajan Potty

Farm Asst. Sl. Gr. : J Sudhakumar Class IV : P Sukumaran

Milk Recorder : Vacant Milker : Vacant

Department of Plant Biotechnology and Molecular Biology

Centre

Asst. Prof.(Biotechnology) : Swapna Enose
Manpower Development Scheme—Coffee Board

Professor : Dr G Sreekantan Nair

Department of Agrl. Statistics

Professor : Dr P Saraswathy
Assoc. Prof. : R Balakrishnan Asan
Asst. Prof. : Dr Vijayaraghavakumar

Brijit Joseph

Jr. Programmer: CE AjithkumarTechnical Asst.: P SaraswathyClass IV: G Pushpaleela

Sweeper : K Lalitha

Department of Maintenance

Assoc. Professor : MS Thomas
Technical Supervisor : Gopinathakurup
Technician Sr. Gr. : K Thankappan
Pump Operators : Raveendran Nair

Mohankumar B Appukuttan

Peon : Gomathy

Department of Olericulture

Professor & Head ... Dr L Rajamony

Department of Library

Asst. Librarian : B Leela : P Sanjeev

Ref. Asst.: KR SaralaLibrary Asst.: S HashimLab. Asst.: B Sherly

Sr. Office Supdt. : C Padmavathy
Lab. Asst. : M Abdul Rehiman
Peon : G Gopinathan Nair

N Somankutty R Vikraman Nair

Department of Agrl. Engineering

Professor & Head : Dr AN Rema Devi

Asst. Professor : Bini Sam
Technician Gr. I : Suresh
Peon : K Thayee

Ammukutty Amma

Department of Plant Physiology

Asst. Prof. : Dr MM Viji
Peon : Krishnamma

Department of Agrl. Extension

Prof. & Head : Dr B Babu

Dr G Balakrishna Pillai

Assoc. Prof. : Dr MM Hussain

Dr S Shylaja

Dr VB Padmanabhan Dr NP Kumari Sushama

Asst. Frof. : Dr N Kishore Kumar

Artist : PK Surendran

V Chandranandan

Lab Asst. : K Sakunthala
Peon : KiRajan
Permn. Labourer : T Lalitha

Assoc. Prof. : Dr G Sobhana C Bhaskaran

Selection Gr. Asst. : V Leela

Sl. Gr. Typist : K Gopikuttan Nair

Peon (HG) : P Arjunan,

Farm Asst. Gr. II (Vacant)

Department of Economics

Prof. & Head : KR Narayanan Nair

Asst. Prof. : K Ravi Raman Elsamma Job

AM Santha

Peon : N Thankappan Nair
Professor : KK Ravindran Nair

Sl. Gr. Assist. : A Shah

SI. Gr. Typist

Duplicator Operator (Hr.Gr.): P Kesavan Nair
Class IV

Class IV

Class IV

Class IV

Dean's Office

Dean : P Balakrishna Pillai Admn. Officer Gr. I : S Krishnan Nair

Admn. Officer Gr. I : S Krishnan Nair Steno to Dean : S Sudha Devi Class IV employee : R Sreelatha

> S Pradeepkumar M Solomon

B Rajasekharan
Duplicator Operator : K Sambasivan
Grade II Typist : R Ashakumari

Grade I Typist : A Lalitha

Si. Gr. Typist : S Majida beevi
Office Supdt : KC Mohankumar
(Hr. Gr.) : V Vasundhara

Sr Office Supdt.

: N Dasamma Bhagaval Singh S Valsaladevi

: A William

(Hr. Gr.)

Lab Asst.

Class IV employee

: P Viswambharan

S Sasidharan Asari S Venugopalan Nair

: P Krishnamma Peon

S Sobha

K'Moniyan Nadar

Grade I Asst. : Sangeeth Thomas Sr.Gr. Asst : NL Sivakumar Sl.Gr. Asst. : T Sasikumar Sr. Officer : N Rajasekharan

Gr. I Asst. : S Anilkumar

: S Viswakumaran Nair Sl. Gr. Asst. C Chandran

: B Sukesan

Section Officer C Padmakumari

: R Sanker Ram : K Sudharma

Gr. I Asst. Sr. Gr. Asst. : AK Shajikumar Section Officer : R Vasumathi Sr. Gr. Asst. : Shakila Javed Section Officer : P Jameela Asst. Gr. I

: M Subaida Beevi S Raveendranath

Section Officer : V Chandrika

Peon (Hr. Gr.) : M Sreedharan Nair

C Appu

Clerical Asst. : S Lalitha Gr. II Asst. : AT Sobhana

Sr. Gr. Asst. : Mohammed Hamsa

PL George

Section Officer : NK Mohankumar Grade II Asst. : P Krishnakumari

CD Sreekala

Section Officer : Abdul Samad : T Jagadamma Peon

Grade II Asst. : S Hema : NK Valsala Gr. I Asst. Sr. Gr. Asst. : S Sureshkumar Section Officer : | Remadevi Amma College of Horticulture, Vellanikkara

Associate Dean : Dr AI Jose

Agronomy

Professor & Head : Dr R Vikraman Nair (holding

addl. charge)

Professor : Dr NN Potty

Asst. Professor : Dr R Gopinathan

Dr KE Savithry
Dr Mercy George

Dr PS John (from 8.10.96)

Agrl. Meteorology

Professor & Head : Dr P Balakrishna Pillai

Asst. Professor : Dr EK Lalitha Bai

Plant Breeding & Genetics

Asst. Professor : 'Dr K Pushkaran

Dr Achamma Oommen

Dr KK Ibrahim (from 24.6.96)

MR Bindu (from 25.6.96)

Agrl. Economics

Professor & Head : Dr K Mukundan
Assoc. Professor : Dr EK Thomas
Asst. Professor : Dr P Indira

Agricultural Engineering

Asst. Professor : MR Sankaranarayanan

Subha Rani Kurien

Agrl. Entomology

Professor & Head : Dr Seetha Rama Rao

(Assoc. Professor)

Assoc. Professor : Dr Jim Thomas

Asst. Professor : Dr Pathummal Beevi

R Usha Kumari

Agrl. Extension

Assoc. Professor : Dr C Bhaskaran
Asst. Professor : Dr Ranjan S Karipai

Dr Kumari NP Sushama Dr PS Geethakutty

Home Science

Asst. Professor : Dr V Indira

Dr V Usha Norma Xavier Agrl. Statistics

Professor & Head

Assoc. Professor

: Dr PV Prabhakaran

: VKG Unnithan Abdul Razak

Asst. Professor

: Graceamma Kurien

P Soudamini S Krishnan

Olericulture

Professor & Head

Assoc. Professor

Asst. Professor

: Dr S Rajan

: Dr KV Suresh Babu (Asst. Prof.)

: Dr Salikutty Joseph

Dr P Indira

Dr PG Sadhankumar

KP Prasanna

Baby Lissy Markose

Plantation Crops & Spices

Professor & Head

Asst. Professor

: Dr EV Nybe

: Dr S Prasannakumari Amma

Dr Alice Kurien

Dr PA Valsala Dr PC Rajendran

Dr MR Shylaja

Dr VS Sujatha Lissamma Joseph

Pomology & Floriculture

Professor & Head i/c 🐇 🥫

Asst. Professor

: Dr PK Rajeevan

: Dr PK Valsalakumari

, Dr Lyla Mathew

Dr NK Parameswaran

Dr CK Geetha

Dr Sajan Kurien

Dr Sara T George

Dr A Sobhana

Processing Technology

Professor and Head

Asst, Professor

: Dr P Jacob John

: KB Sheela

PB Pushpalatha

Plant Pathology

Professor and Head Assoc. Professor

Asst. Professor :

: Dr James Mathew

: Dr A Sukumara Varma

: Dr MV Rajendran Pillai

Dr TN Vilasini

Surendra Gopal

Soil Science & Agrl. Chemistry

Professor and Head : Prof. K Leela

Assoc, Professor : Dr NP Chinnamma

Dr KC Marikutty
Dr KA Mariam

Asst. Professor : Dr MA Hassan

Dr PK Sushama Dr Jacob John

Dr Şam T Kurumthottickal

Dr P Suresh kumar

Physical Education

Asst. Professor :: Dr E Soman

Instrumentation

Assoc. Professor : K Madhavan Nair

Radio Tracer Laboratory

Assoc. Professor : N Kamalam (Safety Officer)

Assoc. Professor : Dr PV Balachandran

Asst. Professor : Dr N Saifudeen Coconut Nutrition & Physiological disorders

Asst. Professor : CS Gopi

Asst. Engineer : Rajendra Prasad

AICRP on weed control

Assoc. Professor : Dr CT Abraham
Asst. Professor : Durga Devi

Mareed Abraham

AICRP on Agrometeorology

Asst. Professor : Dr AVR Kesava Rao

AICRP on BCCP & W

Assoc. Professor : Dr PJ Joy
Asst. Professor : Dr KR Lyla

PG Dip in NRP (upto 31.7.96)

Asst. Professor : Dr PA Nazeem

Centre for Biotechnology & Molecular Biology 🗥

Assoc. Professor : Dr PA Nazeem (from 1.1.96)

Manpower Dev. Scheme sponsored by Coffee Board

Asst. Professor : Dr R Kesavachandran

AIFIP

Assoc. Professor : Dr PK Rajeevan
Asst. Professor : Dr A Suma

... Dr TP Murali

Vegetable seed production Complex

Asst. Professor

... Meagle Joseph

AICVIP

Asst. Professor

: Dr PG Sadhan Kumar

· / Dr Sally K Mathew

Dr S Nirmala Devi

AICRP on Medicinal & Aromatic plants

Assoc. Professor

: Dr KT Prasanna Kumar

Asst. Professor

. : Dr AS Anilkumar. Dr A Augustine

Cadburys' cocoa research project

Professor

: Dr R Vikraman Nair

Assoc. Professor

: Dr VK Mallika

Asst. Professor

: Dr Koshy Abraham

AICRP on Ornithology

Asst. Professor

; : NV Satheesan

Technician Sr. Gr.

: KP Sudarsanakumaran

Technical Asst.

.: M Jayapradeep

Joicy T John

Lab. Asst. Gr. I

: KK Chandran

AP Augusthy

Gr. II

11.5

: KV Rukia

PK Narayanan

KM George

PK Anandan

R Govindankutty

KV Padmavathy

K Santhakumari

.. BP Reetha

PK Savitri

Lab Asst. Gr III

: P Unnikrishnan

KK Prabhakaran

V Nandakumaran

CO Mercy

, AA Krishnan 🔍

PK Velayudhan

Govindankutty

KG Krishnan

> \PR Surendran

PK Kamalakshy

TR Balakrishnan

Farm Supervisor Gr. I	NJ Eliamma KB Sugathan PK Kalyani TC Sidharthan T Ravindran VM Mathew CB Sugathan KV Natarajan
	L Radhammal
Farm Supervisor Gr. II	·KS Thankappan ·VD Thulasi Das
Farm Asst. (Sr. Gr.) Farm Asst. Gr. I	PP Philip R Jayanthy TR Radhakrishnan AX George Padma Narayana Pillai
	CA Mathew VJ Paul MN Pavithran
Farm Asst. Gr. II	Ajith Kumar Puthiyidath Ananthakrishnan
Processing Technology Asst. :	KP Karthikeyan Pillai
Administrative Officer	R Kamala Bai
Section Officer	K Thankam PE Halima Beevi T Rema Bai VS Skanda Kumar
Asst. Sr. Gr.	KA Vareed KR Santha C Rajalekshmy M Komalam KV Jayasankar
	PV Amminikutty IC Sheela Sangeeth Thomas upto 21.5.96 KK Valsa KM George
Asst. Gr. I	TK Jayaraj B Venugopalan', MA Chandran VK Beena CV Flora
Asst. Gr. II	* A Raghu

Sr. Office Superintendent 🕟 H Razia Beevi KM Mary Office Superintendent KA Joy K Padmavathy Typist Sel. Gr. Typist Sr. Gr. AN Malathy PS Shylaja Typist Gr. L . MP Rajani Mini Joseph' PB Joshy PS Shilaja Typist Gr. II TD Baby TS Krishnankumy Peon Hr. Gr KV Ramachandran. Peon MV Kunjai (Retired on 31.7.96) RB Ibrahim PM Ouseph T Kunjukutty PN Indira SV Sujatha: 🗅 Pl Kunjumol NP Chandran KV Ambika Driver HDV VN Sankarankutty MV Karappan Driver LDV .AN Mohanan PR Karthikeyan MK Surendran L Vasudevan Bus Attendant TG Radhakrishnan **Duplicator Operator** A Jayagovindan CD Jose PA Francis Matron Mary Bhamini Hostel Manager NP Chandran Asst. Librarian MC Lalitha Ref. Asst. C Abdul Razak College of Agriculture, Nileswar Mahid PA Wahid Associate Dean ¹ IP Sreedharan Nambiar Professor Dr U Ramachandran Assoc. Prof. from 14.2.97 Dr C Latha Bastine from 14.2.97 Dr PC Balakrishnan

Dr C Mini

Assoc. Prof.

: Dr PR Suresh from 22.12.97

C Mini

Dr Thomas George Dr K Prathapan 🕟

Dr AN Safeena

Susan Thomas from 19.3.97 KN Satheesan from 22.9.96 Ancy Joseph 31.10.96 Dr KB Soni from 12.3.97

College of Co-operation, Banking and Management,

Associate Dean i/c Professor & Head Associate Professor Professor & Head Assoc. Professor

: Dr M Mohandas : Dr N Rajan Nair : Dr N Ravindranathan : Dr PC Mathew

> : Dr KA Suresh Dr A Sukumaran 'Dr KP Mani

Assistant Prof. Sln. Gr Asst. Prof.

: Philip Sabu · Philip Thomas

EVK Padmini Sln. Gr.

KS Sujatha

Dr Molly Joseph E Vinaikumar

📆 Dr Jaya, S Anand (on leave)

KM George Dr AM Jose

Sr. Scale.

M Mohanan

P Shaheena (on leave)

KN Ushadevi Vanaja Menon

Dr G Veerakumaran EG Ranjithkumar

Dr MA Lizv KA Sunanda PI Boniface K Rajamma

Admn. Officer Section Officer

PM Balakrishnan PK Manikutty KN Lalithamma

Seln. Gr. Asst.

... CK Prabhavathy

Sr. Gr. Asst. Gr. I Asst.

KB Java · AR Sheela

S Sushama

Gr. II Asst. : V Rekha on daily wage basis
Gr. I Asst : T Santha

Office Supdt. HG : K Leela

VM Sulaiman
Seln. Gr. Typist : TK Sukumari

Dupl. Machine Operator. >: CD Jose

Hostel Manager ' : M Radhakrishnan '

Peon : PD Rosa TK Ismail

Reference Asst : CK Shylaja (on working

arrangement)

Library Asst. : Cherian K George

Library Attendar : MR Shanmughan on working arrangement

Driver : V Gopalakrishnan

Regional Agricultural Research Station, Vellayani

NARP (Phase 1)

Assoc. Director : Dr PD Vijayagopal

Assoc. Professor

. (Soil Science) ; Vacant

(Plant Breed) : N Ramachandran Nair

upto 31:5.96

Dr Abdul Khader from 31.5.96

(Statistics) : Dr P Saraswathy (Hr.Gr.)

Asst. Professor

(Soil Science) : Post shifted to RARS Kumarakom

(Plant Breed) : Dr P Manju (Assoc. Prof.)

(Statistics) : R Balakrishnan Asan

(Assoc. Prof.)

(Extension) : Dr R Prakash (Assoc. Prof.)

upto 17.12 96

(Horticulture) : Dr L Rajamony (Assoc. Prof.)

PC Jessykutty upto 30.12.96

(Entomology) : Dr D Dale (Prof.)

KS Premila

(Plant Pathology): Dr Bhavani Devi (Assoc. Prof.)

(Agrl. Engg.) : Vacant

Farm Assistant : "D Sulochanan FS (Gr II)

Jones Charles FA (Gr.I)

Lab. Assistant (Gr. II) : S Indirakumari

Driver (Gr. II)	: K Vikraman Nair (H. Gr.) upto 31.8.96
	PS Vijayakumaran Nair
	VP Madhukumar
	V Sudhakaran from 13.9.96
Admn. Officer	: B Sreedhari Amma upto 31.10.96
	P Gopinathan from 5:12.96
Section Officer	🚼 P Lalithakumari Amma 🛴 🦠 🥕
	S Saraswath y A mma
Sr. Office Supdt.	: N Haridas
Typist (Gr. 1) Steno	: P Radha (Office Supdt.) upto 20,5.96
4	P Sarojini Ammal from 29.5.96 ,
Asst. Gr.I	: S Vallinayakom Pillai (Sel. Gr.)
	/Jose Jabes Justus (Sr. Gr.) : _ upto 25.5.96
	C Prabhakaran (Sel Gr.)
	N Hrishikesan Nair (Sel. Gr.)
	M Rajan (Sr. Gr.)
Asst. Gr. II	: MS Noble (Gr. I)
	ME Saleel from 25.5.96
Typist Gr. I	: P Ushakumari (Gr. I)
	B Lalithakumari (Sr. Gr.) upto 23.5.96
	B Savitha devi from 23.5.96
Duplicating machine operato	
Photographer	: -Vacant
Class IV	: S Manikantan
- • ′	M Nagappan from February 97
AICRP on Forage Crops	
Assoc. Professor (Agron.)	· · · · · · · · · · · · · · · · · · ·
Asst. Professor (Pl. Breed.)	· · · · · · · · · · · · · · · · · · ·
	Lekha Rani (Asst. Prof:)
7 Agronomy	, Dr KR Sheela
to the second	L Girija Devi
Farm Assistant Gr. I $_{ m c}$	H Gopinathan (S. Gr.)
4	upto 26.6.96
	, KO Vijayakumar from 26.6.96
Farm Asst. Gr. 11	David (Dharmakumar (Gr. 1)
	K Justin (Gr. I)
Lab Assistant Gr. III	vacant
Asst. Gr. II	`Georgekuttŷ (Gr. I)
Typist Gr. III	V Jayamoni
Peon res	'M Nagappan upto February
	(Shifted to Ph.I)

AICRP (Nematode pests)

Assoc. Professor Dr MS Sheela

Asst. Professor Hebsybai (Assoc. Prof.)

N Anitha upto 30.12.96

R Krishnakumar from 30.12.96

Farm Asst. Gr. II D Sivaprasad

KS Pradeepkumar

Lab Asst. Gr. III : C Manikantan Nair upto Feb. 97

AICRP (Pesticide Residues)

Assoc. Professor : Dr T Nalinakumari

Asst. Professor : Dr S Naseema Beevi

(Assoc. Frof.)

K Sudharma (Asst. Prof.)
Dr Thomas Biju Mathew

(Asst. Prof.)

Lab. Asst. (Gr. III) : M Maniyan

R Raveendran Nair

AICRP (Honey Bees).

Assoc. Professor Dr Abraham Jacob (Prof.)

upto 23.1.97

Technical Asst. S Devanesan (Asst. Prof.)

Lab. Asst. (Gr.II) S Santha

Farm Asst. (Gr. I) KS Sujatha upto 25.6.96

CS Vijayakumar from 25.6.9

ICAR adhoc scheme on Homestead Agroforestry

Res. Assoc. (Agronomy) : Jacob John upto 28 2.97

(Forestry) : Vacant

ICAR adhoc scheme on Epidemiology of honey bee diseases

Res. Assoc. (Aq. Ento.) : R Sabitha upto 28.2.97

KK Shailaja from 28-2,97,

(Ag. Micro.) : Bindu Muraleedharan

upto 30.11.96

Apiculture Asst. : CR Vinod

Providing Information base for the region (Data base system)-Plan

Technical Asst. : P Sreekumar from 3.10.96

AICRP on Tillage 🍃

Asst. Prof. (SS & AC : Dr. PB Usha

Class IV Employee : M Anilkumar from 19-6-96
Lab. Assistant : Prasannakumari from 19-6-96

DBT Project on Rhizobium-pulses association

Jr. Research Fellow : KS Meena Kumari upto 11-5-96

ICAR ad hoc scheme on collection, compilation and cataloguing of Anthurium spp.

Res. Associate : M Suma

STED Project on Vermitechnology

Res. Associate : Vacant

ICAR ad hoc scheme on in vitro propagation of mango

Res. Associate : S Sunitha

ICAR ad hoc scheme on Development of Soya Rice blended Food Receipe

Res. Associate : MS Karuna

KAU-RRII Project on impact of continuous application of copper fungicides on ecosystems of the major rubber growing tracts of Kerala and Tamilnadu

Res. Associate : Ramesh from 21-11-96

- Seema Krishnan from 17-3-97

NWDPRA Project

Res. Associates

Entomology : T Sivakumar
SS & AC : Deepa S Pillai
Agronomy : PV Jinaraj
GS Ajithkumar

..: Praveena Sreeraj

Farming Systems Research Station, Sadanandapuram and Krishi Vigyan Kendra, Kollam

, NARP (Phase I)

Assoc. Professor

Horticulture : K Ajithkumar from 29-7-96

Soil Science : RS Shehana

Assistant Professor

Horticulture : Vacant Soil Science : RS Shehana

Acronomy : Dr K Vasanthakumar

(Assoc. Prof. Hort.) upto 11.4.96 Dr M Oommen (Prof. Agron.)

from 11.4.96

Dr S Chandini (Assoc. Prof.)

Asst. Professor Entomology .: « Vacant Plant Pathology : Dr S Ravi (Assoc. Prof.) Agrl. Economics : Dr S Rageena Veterinary : Vacant Soil & Water : Vacant Conservation Engg. Farm Asst. (Agri.) Gr. I. : PA Sankuttv EN Raveendran Nair PG Ajayakumar from 20-12-96 M Rajendran TK Ajmalkhan 11.10.96 to 20.12.96 Farm Assistant (Vety.) Gr. I : A Sarojam Lab. Assistant Gr. II : Vacant Administrative Assistant : M Abdul Salam Assistant Gr. I : PK Mohanan (Sel. Gr.) N Ponnamma (Sel. Gr.) upto 31.10.96 Ignatius Typist Gr. I : B Bhamini Amma Peon : P Sunilkumar Krishi Vigyan Kendra, Sadanandapuram Assoc. Prof. & Head : Dr M Oommen (Professor) : Dr FMH Kaleel Asst. Prof. (Extension) upto 26.12 96 Dr.R Prakash from 27.12.96 (Agronomy) : S Lakshmi (Horticulture) : P Sukumari (Plant Protection): Kunjamma P Mathew (Animal Science) : Dr MO Kurien (Home Science) : Rari John Farm Supervisor at the control of th upto 24.1.97 Farm Asst. (Vety..) : P Valsalakumari Training Assistant : V Anilkumar from 20.12.98 2 > PM Joshi from 24.1.97 Assistant Sr. Gr. : C Chandrikakumari Assistant Gr. I . .: D Suprabha Typist Gr. II . : R Usha. Driver, LDV : S Sasi Peon : : N Krishnan Nair

Class IV

: P Suresh Babu upto 18.6.96 P Sunilkumar from 19.6.96 CJ Wincent from 12.8.96 K Gopi from 13.2.97

Cropping System Research Centre, Karamana

AICRP

Professor & Head : Dr GK Balachandran Nair Assistant Professor : Dr CR Sudharmai Devi

Soil Science & Agrl. Chem.

Agrl. Statistics : Dr Vijayaraghava Kumar

Technical Assistant : 'Nil

:1 KS Ajayakumar Farm Assistant

SR Rajeevan

Typist

: V Jayamani : GV Saju Messenger (Class IV)

Non-Plan

Assistant Professor : Dr KK Sulochana

Plant Pathology

Administrative Assistant .: VM Lalithakumari S Sathee Devi

Senior Gr. Assistant Lab. Assistant Vacant wef. 1.2.97

Peon : G Francis Choukidar Vacant Part time Sweeper Bharathi

Coconout Research Station, Balaramapuram

, . : Dr G Padmakumari Professor of Plant

Pathology and Head

: Dr N Purushothaman Nair Associate Professor

Agronomy

Dr K Viswambharan

Assoc, Prof. : KP Jagan Mohan

(Plant Pathology) (on working arrangement from RRS, Kayamkulam w.e.f. 10.8.1995) =

Farm Asst. Sr. Gr.. /

> Gr II : KK Reghu Raj

Watchman Hr. Gr : N Prabhakaran Nair

Administrative Asst. : G Joice Assistants Sln. Gr. & Sr. Gr. : B Sobhana Typist Sln. Gr. : A Vasantha K Mohanan Peon Hr. Gr

Regional Agricultural Research Station, Kumarakom

Assoc. Director : Dr R Ravindran Nair
Assoc. Prof. (Ento.) : Dr KP Vasudevan Nair

(Stat) : P Gangadharan

Asst Professor K Geetha

NARP Phase I

Assoc. Prof. (Aqua.)

Chem.: Manorama Thampatti

Extn.: KP Ramachandran Nair

SS: Dr M Subramonia lyer

Asst. Prof. (Hort.) Dr Joseph Philip
(Assoc. Professor)

W.S./Agron KC Rajan

Microbiology : Vacant

Aqua : Dr Anuradha Krishnan

(Assoc. Professor)

P.B./Genetics: : KA Inasi

Micro : Dr AV Mathew (Assoc. Professor)

Pl. Physiology : Alice Antony

Bio-chem : Dr Sosamma Cherian (Assoc. Professor)

Econ : AM Santha

Ag. Engg : Asha Joseph

Agron: : Elizabeth K Syriac

NARP Phase II

Assoc. Prof. Ag. Engg. : Vacant

CRWD

Assoc. Prof. Pl. Path. : G Mathai Vacant from 1/96

Sr. Farm Supervisor M. Rajaratnam upto 3.4.96
from 4.6.96 on working arrange
ment at CRS, Balaramapuram

B Indirabaiamma from 29.7.96

Farm Supervisor Gr. I 💢 K Sasidharan

Gr. II PV Reghunathan

Farm Asst. Sr. Gr. : KC Varghese MV Sasidharan Nair · · · CV Kuttappan upto 23.5.96 S Sukumaran Nair from 24.5.96 Gr. I : PS Sanalkumar upto 9.6.96 K Gopalakrishnan Nair from 10.6.96 (Vety) Sr. Gr. : OK Sukumaran Technician Gr. I : Thomas Scaria : CC Punnen , -Pump Operator Hr. Gr 🗆 Watchman : EP Sasidharan MT Ponnappan MR Sudhakaran Admn. Officer : VC Bharathan Pillai Section Officer : MP Govinda Pillai D Vijayamma Sr. Office Supdt. : KK Gopikuttan Nair CB Merlin Office Supdt. : MC Jayakumar Selection Gr. Asst. MR Ramachandran Nair PG Sreekanta Pai Upto 28.5.97 M Mohamed Basheer'from 29.5.97 B Bhanumathy Sr. Gr. Asst. : CP Jayakumar Typist Gr. I : P Baby K Radhamoney Mariamma Mathew Driver HDV Gr. I : PC Kurien Retired on 30.11.96 Driver (LDV) : TM Francis upto 23.5.96 MG Sankaranarayanan Nair from 29.5.96 PS Babu **Bus Attendant** : KK Raghavan upto 31.5.96 " PM Varghese from 18.6.96 Dupl. Machine Operator ; CG Mohanan : VK Vasu Lab. Asst. Gr. I Gr. II 🕟 PS Retnam Gr. III ·Mary Sebastian , George Murickan TP James Peon KK Thankappan N Purandaran Retired on 30.9.96 MK Sivaraman from 8.10.96 AP Meenakshi 🔢 🦡 ن

Rice Research Station, Moncompu

KAU Non Plan

Jr Statistician

Asst. Professor Reena Mathew (Study leave for

Ph. D. from 29.12.96)

Assoc. Professor, Dr Sosamma Jacob

R Devika

Dr Sumam Susan Varghese PR Krishna kumariamma Retired on 31,12,96

AICRIP

Assoc. Professor Dr PS John Vacant from 9:10.96

Dr N Rema Bai Dr D Ambikadevi

Technical Asst. Vacant

NARP Phase I

Professor D Joseph Retired on 17.9.96

Asst. Professor Ahmed Regina Study leave for

Ph.D.

Professor & Head to Dr.L Remadevi,

Asst. Professor PJ Joseph

Annie Koruth

Research Assoc. : George Thomas

Rice Research Station, Kayamkulam

Professor Dr K Sivan Pillai

relieved on 31.5.96 AN

Assoc. Professor NR Nair w.e.f 10.6.96 FN

KP Jaganmohan (on working

arrangement to CRS Balaramapuram)

Dr Shyam S Kurup Dr Sverup John TDr Sumam George

Joined duty in the FN of 13.5.96

Asst. Professor Dr P Sushamakumari

M Indira G Suja

KS Meenakumari w.e.f

12.9.96 FN

Farm Supervisor R Satheesan

N Vasudevan

G Shaji w.e.f. 15.6.96 AN

Farm Asst. (Sel. Gr) D Prasannakumar

TK Vijayan

: N Padmakaran Pillai . Lab Asst. (Gr. III) MG Thomas 2.11 K Sindhu Administrative Asst. : B Thankamoni upto 29.5.96 FN KP Rajendraprasad joined duty on the FN of 1.6.96 Asst. (Sel. Gr.) : K Govindan (Sr. Gr.) : MP Vijayachandrababu Typist (Sr. Gr.) : K Sobhana' Peon Hr. Gr. : T Balakrishnan Sweeper : N Rajamma Regular Mazdoor : N Viswanathan N Raveendran Driver Gr. III : A Sajim upto 28.10.96 AN TR Manjithkumar w.e.f. 18.11.96 AN Tractor driver (Hr. Gr.) ; R Thankappan Rice Research Station, Vyttila Professor (Soil Science) : K Chandrasekharan Nair upto 17.5.96 (Agrl. Botany) : Dr K Sivan Pillai 10.6.96 onwards Assoc. Professor (Agronomy) : NK Sasidharan : CG Rajendran ., (Aquaculture) Farm Supervisor : Haridas 10.6.96 onwards George P Puravath Farm Asst. : AA Abdulla ^ PN Sadasivan Driver Gr. II :] Joy : PR Prabhakaran upto 6.2.97 Pump Operator IR Balan 3.3.97 onwards Lab Assistant : PM Goni Fisherman cum Watchman : KG Gopi P Viswanathan upto 31.7.96 Administrative Asst. : AA Kousalya : AS George Sr. Gr. Asst. Assistant Gr. Ï : AR Sheela upto 25.5.96 VA Suprabha 25.5.96 onwards

: MP Rajani

: N Vasu

VK Rema

. NS Reghunandanan

upto 23.5.96

31.1.97

23-5-96 onwards

Typist Gr. I

Peon Hr. Gr.

Sugarcane Research Station, Thirwalla

ICAR

Assoc. Prof. (Agronomy): Dr D Alexander Asst. Prof. (Plant Breeding): Dr K Sreekumar Assoc. Prof. (Pl. Pathology): Dr Babu George

Farm Assistant Sr. Gr. : B Muraleedharan Pillai

Lab. Assistant Gr. II : AM Kareem

NARP

Asst. Professor (Horticulture): Jessy M Kuriakose

KAU Non-Plan

Professor (Agronomy) : PJ Ittyaverah Asst. Prof. , : Dr R Ilangovan

Farm Supervisor Gr. II

(Hr. Gr.): EK Sukumaran
Farm Assistant Sl. Gr. : TK Omanakuttan

Administrative Assistant : KP Rajan
Assistant Sr. Gr. : S Gopakumar

PB Anilkumar

Typist Sr. Gr. : AK Indiradeviamma
LDV driver : CA Chacko

Peon : K Lalu

ECF Unit, Kayamkulam -

Associate Professor : G Sukumaran Nair upto 22.5.96

Typist (Gr. I) : S Kaladevi from 23.5.96
Typist (Sr. Gr.) : TM Francis from 6.6.96
Driver (LDV) : V Sindhu upto 30.11.96
Watchman : Dr Abraham Varghese
Farm Supervisor (Gr. II) : G Shaji upto 15.6.96

Sel. Gr. Farm Asst. . : TJ Mathew

VJ Rajamohan

KC Sanuprasad

PC Girijavallabhan

Senior Gr. Farm Asst. : PA Abdul Majeed

PS Sanalkumar from 15.6.96

Regional Agricultural Research Station, Pattambi

Non-Plan

Assistant Professor TK Bridgit

NARP I

Associate Professor .Dr P Rajendran

Dr TE George

NARP II

Asst. Prof. : ML Jyothi

> P Shaji James 🐰 11

NSP-BSP

Asst. Prof. : 'G Valarmathi

AICRIP

Assoc. Director : Dr.P Varadarajan Nair

Assoc. Prof. (Pl. Br.) : Dr Leenakumari : Dr Jose Mathew (Agron.)

(Ento.) : Dr L Nadarajan : TN Jagadeeshkumar : Rehumath Niza (Agron.)

(Pl. Path.)

AICRP on Arid Legumes .

Assoc. Professor : Gracy Mathew (on, study leave)

E Sreenivasan 🔒 💹

AICRP on Long Term Fertilizer Experiments

Assoc. Prof. : Dr K Anilakumar

ICAR Adhoc Scheme-Chilli

Research Associate : One Agrl. Graduate is working

against the post

Non-Pian - A,

Section Officer : MP Ahamed

PM Cherukutty KP Kalliani

TV Ravindra Mohan

Assistants : MV Thankamany

AV Sreenivasa Raghavan

PM Suresh AW Kishore MS Ramakrishnan Harigovindan

P Ramadas

. S. O. S. : KT Thanka

Office Supdt. : P Nadarajah Pillai

Typist : Mohandas

Lab. Assistant : KS Chandrasekharan

N Saffiya '

Peon : M Krishnankutty

P Mohammed

P Kunhilakshmi

Non-Plan B

Senior Farm Supervisor

: Abraham K Cheru

Farm Supervisor Gr. I

: Saidalikutty

CPM Mohammed Abdul Azeez

Farm Assistant

: VP Ramakrishnan

B Rajendran

T Velayudhan EL Raichel (FS Grade I)

Technician

: Surendran : PK Aboo

Regular Mazdoor

N Hamza M Narayanan

A Mohammedkutty

PC Koya
N Rugmini
MP Mohanan
K Kumaran
P Rayankutty
P Mohammed
KC Surya Bahadur

Watchman

; . C Mohammedkutty

T Rugmini

AICRP on loag term fertilizer experiments

Class IV

: A Unnikrishnan

NARP I

Senior Admn. Officer

: KP Koyammu

Typist

: E Gopinath

Santhakumari

Duplicator Operator

: C Kunhan

Lab. Asst. Gr. II

: VP Balasubramanian

NARP II (Non-plan)

Technician

E Abdul Hakkim

AICRIP

Farm Assistant Grade 1

PK Rajasekharan

MJ Joseph MV Yusuf Karthikeyan

Driver

: MV Arumughan

Tractor cum Jeep Driver

: K Parameswaran

Pulses-AICRP on Guar (Arid Legumes)

Farm Assistant (Agrl.)

: Mohammed

Lab. Asst. Gr. II

Aboobacker T Ramakrishnan

NSP-BSP

Field/Lab. Asst.

: K Divakara Panicker

Cashew Research Station, Anakkayam

Assoc. Professor

: KC Chandy Transferred to Rice Research Station, Vyttila from 2-6-97.

Asst. Professor (Sr. Scale)

PV Nalini

Head of Station i/c

Asst. Professor

: MC Narayanankutty

Farm Supervisor Gr. II

: K Mohammedali

Farm Asst. (Sin. Gr.)

; A Abdurahiman

Lab. Assistant Gr. III . Sln. Gr. Assistant

V Ponnappan

Sin. Gr. Assistant

: C Rajagopalan

Sin. Gr. Typist Peon

: KT Vijayalakshmi

Sweeper

KV Balakrishnan

sweeper

: KP Kadiyumma

Vacant

Mali

Agricultural Research Station, Mannuthy

A. KAU

Assoc. Prof. & Head

: Dr U Jaikumaran

Asst. Professor (Agron.)

: T Sajitha Rani

Asst. Prof. (Hort.)

Dr C Narayanankutty

Asst. Prof. (Agron.)

TK Bridgit (On working arrangement from RARS Pattambi

w. e. f. 2.1 11996)

B. ICAR/NARP

a) AICRIP Double Cropping Sub Centre

Assoc. Professor (Pl. Br.)

: Dr VV Radhakrishnan

b) NARP-I Central Zone

Asst. Prof. (Pl. Br.)

: CA Rosamma

Administrative Asst.

: P Aliyar from 12.12.96

Sr. Gr. Asst.

: KN Sarojini from 3.8.96 onwards

Selection Gr. Asst.

: T Vijavalakshmi

Gr. I Asst.

: CK Prabhavathy upto 31.7.96

Typist R Noel Peon RG Babu upto 5-8-96 G Parukutty upto 31-12-96 P Radhakrishnan Nair from 21-11-96 Jeep Driver U Ravichandran Watchman Vacant Technician PM Ramesh Chandran Overseer ·, Ambujam^{*} On working arrangement from Directorate of Physical Plant Radhamma Thankachi Sr. Farm Supervisor . . upto 9-12-96 Farm Assistant Sr. Gr. PR Sathian Farm Asst. Gr. II PC Uthaman Farm Asst. Gr. II CK Santhosh CP Alikutty : KK Ramachandran from 3-9-96 Lab Assistant Banana Research Station, Kannara AICRP (IF) Assoc. Prof. (Hort) : Dr Rema Menon Asst. Prof. (Hort) : T Premalatha Asst. Prof. (Pl. Path) : CA Mary, Assoc. Prof. Asst. Prof. (Ento) : Dr JSK Charles, Assoc. Prof. Farm Asst. Gr. 1/35 : C Esarachandran (Sl. Gr.) AK Vijayakumar (Gr. I) √C Gireesan (Sr. Gr.) Lab Asst. Gr. I KR Gopalakrishnan (Gr. II) Oil Engine Driver ; KA Narayanan Mali : P Subhadra ., PA Mary : Nil Watchman 💃 Typist Gr. II : KK Parameswaran (Sl. Gr.) Peon : K Sarada NARP Assoc. Prof. (Agron) : S Janardhanan Pillai Assoc. Prof. & Head Asst. Prof. (Hort) : Dr PK Sudhadevi Typist Gr. II : · · PK Gayathri Farm Supervisor Gr. II , PM Paulose Farm Asst. Gr. I 🔝 S Nazeema (FS Gr. II) Administrative Asst. Assistant Gr. I : KK Valsa upto 24-2-97 🗥 M Joju Paul from 25-2-97 💛

Driver Gr. II : PN Benny

Pump Operator : CM Prabhakaran

Retired on 31-1-97

KA George from 11-2-97

Peon : RK Dhirjan Bahadur Singh

Watchman : Vacant

Agronomic Research Station, Chalakudy

ICAR

Professor : PJ Ittyaverah

Assoc. Professor

Agri. Chemistry : G Santhakumari
Agronomy : V Sreekumari

Agrl. Engineering : VM Abdul Hakkim (Asst. Professor)

Asst. Professor

Agronomy : MA Peter

Farm Asst. : V Unnikrishnan (upto 24.6.96)

larm Supervisor Gr. II NM Mohanan from 9.7,'96 Farm Supervisor Gr. II

TA Vasanthy Senior Grade

PK Reghu

V James upto 15 6.96 NR Rajan from 18.6.1996 AR Venu from 20.5.1996

Lab. Asst. : TR Balakrishnan upto 24.5.96

...TK Velayudhan from 25.5.96

Assistant : K Hemalatha upto 24.5.96

... KS Jitha from 25.5.96

Driver : VK Karunakaran

Peon : V Gopinathan

Non Plan

Farm Supervisor ; MT Varghese from 22.6.96

Pump Operator : KA Subran

Admn. Assistant : PU Kesavan upto 24.5.96

AK Lyla from 25.3.96

Assistant : KN Murukes

NARP I

Asst. Professor

Agronomy : V Jayakrishnakumar

Farm Asst. : MC Sachidanandan from 17.6.96

Lab. Asst. : TV Parameswaran

Typist : MC Devassy

NARP II

Typist : KD Rosily

Aromatic and Medicinal Plants Research Station, Odakkali

Assoc. Professor Dr J Thomas

(Agronomy)

(Entomology) : Dr P Baby Skaria (Agrl. Chemistry) : Dr Samuel Mathew

(Agronomy) PP Joy

Farm Supervisor Gr.I EN Sudhakaran Nair

V James

Farm Supervisor Gr.II. John Varghese

Farm Asst. Sr. Gr. R Raghu

Lab Assistant Graduate KK Santhakumari Amma

Administrative Assistant VK Pathumma
Asst. Sr. Gr. CC George

PV Yeldose

Typist Gr. I : TG Jalaja
Peon Higher Grade : MM Poulose
Class IV : KA Ponnamma

PV Ayyappankutty

Gardener : KB Sivaramakurup

Pineapple Research Station & Pest and Surveillance Unit,

V azhakkıdam

Asst. Professor : KP Kuriakose

Pepper Research Station, Panniyur

Assoc. Professor & Head : KP Mammootty

Assoc. Professor : Dr A Rajagopalan
Asst. Professor : T Premanathan

- Gregory Zachariah

Admn. Assistant : M Leela

Sel. Gr. Asst. : T Lakshmikutty
Sel. Gr. Typist : K Pushpavally

Farm Supervisor Gr. II : PJ Joseph

KA Kurien

Farm Asst.

: T Muhammed Haneefa

K Lakshmanan MV Premarajan PP Muralidharan

Pump Operator

: TV Madhavan

Driver LDV

: JK Justin

Class IV Hr. Gr.

T Kunhiraman

V Kunhiraman

P Janaki

Peon Hr. Gr

: MP Narayanan '

Regional Agril. Research Station. Ambalayayal

Associate Director

: Dr K Kumaran (post shifted to

of Research

KAU Hq.)

Professor (Horti.)

: Vacant : Dr KC Aipe

Assoc. Professor (Agro.)

(Head of the Station)

Assoc. Professor

: Vacant

(Plant Pathology)

Horticulture

Asst. Professor

: Dr KVasanthakumar

(Assoc. Professor)

Plant Pathology

Dr T Pradeepkumar : Dr K Umamaheswaran

Soil Science &

: B Rani

Agrl. Chemistry

(Plant Breeding)

AICRP on Spices

Assoc. Professor

: Susamma P George

Asst. Professor

Adm. Officer

: B Rugmini Amma

PN Sudhadevi

C Assainar

Section Officer

: K Kelappan

NK Achuthan

'P Sulochana

Sr. Gr. Assistant

: K Velayudhan

AT Gracy

PP Rejilakumari

Assistant Gr. II'

: AS Nasarudheen Thangal

N Raveendran

M Sureshkumar

Typist Gr. II

: MR Ambujam

A Sudhakaran

Steno Typist

: ML Sosannam

Driver LDV

: TY Daniel

Peon Hr. Gr. : P Moosa

> , V Kunhipokku E Kunhiraman

> > E Alavi

KAU Non-plan

Sr. Farm Supervisor : KM Vijayakumaran

Farm Supervisor Gr. II : P Padmavathy Farm Asst. Gr. I : CT Jacob

> KM George (on working arrangement at Vellimadukunnu)

Farm Asst. Gr. II : K] Joseph

NK Muraleedharan

KS Rajamani

Field Supervisor : K Raghavan Lab. Asst. Gr. I : A Govindan Nair Gr. II : CR Balakrishnan

Tractor Driver : M Mohammedkutty'

Oil Engine Driver : A Varghese

MI Antony

Budder : K Ramakrishnan

Class IV on working : KK Nabeesa KS Prema arrangement 🐪

KP Mukundan

Watchman : N Chandu

V Alikutty MC Krishnan

NARP Phase I

: S Prabhakaran Farm Asst. Gr. II

Lab. Asst. Gr. Il : M Vasu

NARP Phase II

Farm Asst. Gr. II (Vety) ; K Radhakrishnan Technician Gr. I : K Vasudevan

Central Sector Scheme

Farm Asst. Gr. I : TT Jacob

Cardamom Research Station, Pampadumpara

AICRP

Associate Professor (Ent) : Dr J Arthur Jacob (Agron) : Dr George Thomas

Farm Asst. Sr. Gr. /: VP Prasad Lab Asst. Gr. I : PV Joseph : K Aleykutty Peon

NARP

Asst. Professor (Ent.) : Vacant

(Pl. Breeding) : VR Shajan Farm Asst. Gr. I : CG Pradeep : / KG Mohandas

Typist Gr. II : Sheeba Pappachan

KAU Non-Plan

Assoc. Professor (Bot.) 🊁 Dr Sunny K Oommen

(Asst. Prof.)

Asst. Professor (Plant Path) : Vacant Asst. Prof. (Hort.) . : Vacant

Assistant Professor (Soil Sci): . M Murugan Farm Supervisor Gr. I : K Devaky Farm Assistant Gr. I : TV Kuttichan Administrative Assistant : B Sukesan

VA Achuthan

Reghupathy Chettiar

Purushothaman Nambiathiri

Narayanan Vijayamma

Assistant Sr. Gr. : AK Valsala

: Gopinathakartha Assistant Gr. I

S Anilkumar

: 'Vacant Typist Gr. II Driver Gr. III ; CA Alikhan

Watchman MT Antony

Paulose Mathew

KAU Estate and Campus Development, Vellanikkara

: S Krishnan Nair Estate Officer

> MN Sasidharan K Sreerengan

: C Aramughan Section Officer

C Sobhanakumari

: D Subhadramma Sr. Farm Supervisor

S Sarojini

NS Gertrude

: KS Thankappan Farm Assistant

> U Divakar TK Ajmal Khan

: MS Valsalakumari Assistant

> S Sushama K Pradeep

: KS Xavior **Typist**

BK Padmaja

: ES Chandran Driver LDV : NV Vasu Class IV

KP Kunjipocker

P Kunjunny

: MA Jos Asst. Section Officer : TK Raghavan Field Supervisor

: PN Sankaranarayanan Tapping Supervisors

MS Damodaran

: KK Prabhakaran Asst. Engine Driver : PM Poulose

Spl. Gr. Miller Saleena Devassy

; Dr. MJ Thomas Special Officer : Dr Babu M Philip Assoc. Professor Asst. Professor : KP Prameela

KE Usha

: PK Vijayalakshmi Sr. Farm Supervisor

Farm Assistant : MK Johnson

Vijayanarayanan

: PK Kallyani Office Superintendent

Sl. Grade / : KK Kuttappan

Instructional Farm, Vellanikkara

: Dr. PS John, Assoc, Prof. (Agro) Professor (Agro)

College of Horticulture is in

additional charge

: Vacant Asst, Prof. (Hort.)

: KN Pushpangathan Administrative Asst.

Sr. Gr. Assistant : EK Dalika : Vacant Assistant Typist Gr. II : AK Saleem : B Radha 'VN Gopi Farm Supervisor Gr. I

: NT Satheesh Babu Gr. II

Farm Assistant Sr. Gr. , ; KG Satheesan

College of Veterinary and Animal Sciences, Mannuthy

Anatomy

Professor and Head : Dr. Lucy Paily — Retired from

Service on 10-9-96

Assoc. Professor : Dr KR Harshan

> Dr. CK Sreedharan Unni Dr. Jose John Chungath

Asst. Professor Dr. N Ashok Dr. Shyla Prakash Dr. KM Lucy Dr. S Maya Animal Reproduction Professor & Head Dr. CP Neelakanta Iyer Professor Dr. K Prabhakaran Nair Dr. E. Mathai-Retd: on 23.7-96 Dr. T Sreekumaran Assoc, Professor Dr. KV Athman Dr. KN Aravinda Ghosh Asst. Professor : Dr. SP Suresh Nair Dr. Metilda Joseph Dr. Anilkumar Dr. K Ramachandran Scheme - Incidence, Nature and Magnitude of Prevalence of Infertility condition in cross bred cattle" Professor · Dr. P Balakrishnan (at Calicut) Centre of Advanced Studies in Genetics and Breeding Professor : Dr. Sosamma lypè Assoc. Professor : Dr. KV Reghunandanan Asst. Professor : Dr. R Thirupathy Venkitachala-Section 1985 and Section 1985. pathy Animal Genetics and Breeding '-Assoc. Professor 🐃 .: Dr. Stephen Mathew Dr. P Nandakumar Asst. Professor : Dr. TV Aravindakshai Dr. K Anilkumar Dr. Shashikanth : Dr. Joseph Mathew Animal Management Professor & Head : Dr TG Rajagopalan Professor : Dr CK Thomas Assoc. Prof. : Dr Francis Xavier Dr PC Saseendran Dr KS Sebastian Asst. Professor : Dr (Mrs) K Leena on leave for study purpose Dr Joseph Mathew . . . Clinical Medicine Professor & Head : Dr KM Alikutty Retd. in Dec. 96 Professor : : Dr NM Aleyas Dr VS Balakrishnan (Prof. RC)

Associate Professor

: Dr PC Alex Dr PG Baby

Asst. Professor

: Dr (Mrs) Usha Narayana Pillai

Dr S Ajithkumar

Dairy Science

Professor & Head

Professor Assoc. Professor : Dr K Pavithran Retd. on 9/96 : Dr UT Francis Retd. on 3/97

R Rajendrakumar on deputation

Dr PI Geevarghese
Dr M Mukundan

Asst. Prof. : Dr (Mrs.) Geetha C Jayan

on study leave

Dr K Ajithkumar

Dairy Plant

Prof. & Head

Dr MV Sukumaran

Retd. on 24.5.96

Assoc. Prof.

Asst. Prof.

Dr V Prasad

Dr (Mrs) Sreeja Rajmohan

P Sudheer Babu SN Rajkumar

Extension

Professor & Head

Assoc, Professor

Dr PS Pushkaran

Dr (Mrs) MR Subhadra

Dr PJ Rajkamal

Asst. Prof.

Dr RS Anil (on study leave)
Dr M Gopalakrishnan Nair

Dr (Mrs.) RS Jiji

Microbiology

Assoc. Prof.

Prof. & Head

Professor

Dr (Mrs) S Sulochana

: Dr KT Punnoose

Dr PC James Retd. on 7-3.97

: Dr V Jayaprakash

Dr G Krishnan Nair

Asst. Professor

: Dr (Mrs) D Sudharma on study

leave

Dr ES Mathews (on loss of pay leave for employment abroad)

Dr (Mrs) M Mini

Dr Koshy Varghese

Nutrition

Professor & Head '

Professor

Dr CT Thomas

Dr N Kunjikutty Dr FA Devasia

Dr CS James

Dr (Mrs) Maggie D Menachery

Assoc. Professor : Dr George Mathen

Dr M Nandakumar, (Chemist)

Dr (Mrs) AD Mercy

ICAR Net work Project on Micronutrients in Animal Nutrition and

Production

: Dr (Mrs.) P Gangadevi Asst. Professor

Centre of Excellence in Pathology

: Dr A Rajan, Dean Director : Dr KM Ramachandran Prof. & Head : Dr (Mrs.) KV Valsala Professor

Dr T Sreekumaran

: Dr PK Ismail Assoc. Professor

Dr (Mrs.) CR Lalithakunjamma

Dr CB Manomohan

: Dr N Divakaran Nair Asst. Prof.

> Dr Koshy Varghese Dr Mamman J Abraham Dr B Gangadharan Dr (Mrs.) T Leenadevi : Dr TV Anilkumar

Parasitology

: Dr K Chandrasekharan Retd on Professor & Head

: Dr V Sathianesan Retd. on Professor

19.1.97

Dr C George Varghese Dr M Madhavan Pillai

Dr C Pythal

: Dr H Subramanian Asst. Prof. (Sl.Gr.) : . Dr (Mrs.) Lucy Sabu Asst. Professor Dr (Mrs.) K Devada

Physiology & Biochemistry

: Dr KP Surendranathan Professor & Head : Dr (Mrs) PT Philomina Assoc. Professor

: Dr G Girish Varma (on study Asst. Professor

leave)

Dr V Ramnathan Dr Sisilamma George Dr KP Sreekumar Dr KK Jayavardhanan Dr Ms. K Karthiayani

Pharmacology & Toxicology

Professor & Head : Dr MK Rajagopalan (Retired on

July 96)

Professor : Dr Jacob V Cheeran

Dr Zachariah Cherian

Dr P Marykutty

Assoc. Professor : Dr VR Reghunandanan (Chemist)

Dr K Venugopalan

Dr AD Joy

Asst. Professor (Sl. Grade) : Dr CM Aravindakshan

AM Chandrasekharan Nair

Asst. Professor : Dr PTA Usha

Poultry Science

Director : Dr A Ramakrishnan (Retired on

30.6.96)

Dr AKK Unni from 1.7.96

Professor : Dr CK Venugopalan (Retired on

4.10.96)

Assoc, Professor : Dr Amritha Viswanath

Dr A Jalaludeen
Dr K Narayanankutty

Preventive Medicine

Professor & Head : Dr K Baby

Professor : Dr PT Georgekutty (Retired on

13.6.96)

Assoc. Professor : Dr MR Saseendranath

Asst. Professor : Dr K Vijayakumar (on study

leave)

Dr PV Tresamol

AICRP on Poultry

Sr. Scientist : Dr AKK Unni

Assoc. Professor : Dr Leo Joseph (NC)

Dr VK Elizabeth -

Asst. Professor : Dr N Vijayan

Dr P Anitha Laly John

Statistics

Professor & Head : Dr KC George (Retired)

Asst. Professor : TK Indirabai

U Narayanikutty Mathew Sebastian Surgery

Professor Dr KN Muraleedharan Nair

(Prof. & Head i/c)

Dr S Raveendran Nair

Assoc. Professor Dr T Sarada Amma

Dr K Rajankutty

Asst. Professor Dr CB Devanand (on study

leave)

Dr TP Balagopalan
Dr Shyam K Venugopal
(on working arrangement in
Vety. Hospital, Mannuthy)

Dr K John Martin -

Veterinary Public Health

Professor & Head : Dr P Prabhakaran .

Professor : Dr E Nanu

Assoc. Professor : Dr MT Jose (NC)

(on long leave)

Asst. Professor : 'Dr Kumarasubrahmaniam'

(on leave for higher studies)

Dr B Sunil
Dr C Latha

Meat Technology Unit .

Professor : Dr J Abraham
Assoc. Professor : Dr Kuttinarayanan

Dr George T Oommen

Asst. Professor : Dr M Sunil

Veterinary Hospital, Mannuthy

Professor i/c : Dr NM Aleyas
Assoc. Professor : Dr Santha Kurian
Asst. Professor : Dr Syam K Venugopal

(from Feb., 96)

Veterinary Hospital, Kokkalai

Professor : Dr E Madhavan
Asst. Professor : Dr KM Jayakumar

Physical Education

Assoc. Professor (NC : OK Paul

Molly Cherian (on leave)

Professor (RC) : "Dr VS Balakrishnan from 31.1.97

Anatomy

Farm Supervisor : (M Narayanankutty till 4.10.96)

KR Sivaraman from 5.10.96

Class IV : KA Vinod Permanent Labourer : KR Wilson Animal Reproduction

Farm Supervisor Gr. I : "VM Jacob Gr. II : PS Kumaran

Farm Assistant : MK Rajendran Nair

V Gopalakrishnan

TG Mohanan

KK Gopalan
KK Kunjan
KV Thressia

Class IV : KV Thressia
M Divakaran

Animal Breeding and Genetics

Sr. Office Superintendent : S Seemanthini
Typist : K Soudamini
Assistant : TD Annie
Technician (Fur and : C Ramadasan

Meat Technology)

Animal Management

Farm Supervisor Gr. II : M Lalithamma

Class IV : K Saroja

Clinical Medicine

Farm Supervisor Gr. II : P Ramany
Class IV : PA Mini

AI Thomas

Dairy Science and Extension

Farm Assistant : KT Sivasankaran

Dairy plant

Farm Assistant Gr. II : O Premakumari
Technician Gr. I : KM Muraleedharan
Sr. Gr. Assistant : KC Varghese
Typist Gr. I : V Mohandas

Class IV PV Prabha Kumar

Supporting : IN Sreekumar

VS Rajesh
MS Suresh
MJ Devassikutty
MS Radha

CK Madhavan

Extension

Farm Supervisor ; TK Narayanan
Artist : KR Kumaran
A. V. Operator : MR Gopinathan
Driver : Suryanarayanan

Class IV : T Krishnankutty

KK Madhavi

Microbiology

Lab Technician : KK Viswambharan Class IV ' : NT Lakshmy

Permanent Labourer : RV Thanka

TK Chándramathy

Nutrition

Research Assistant Anniamma Chacko

Lab Technician : MG Vasu

Technician : TR Viswambharan Class IV : KK Ramachandran

iCAR Network project

Class IV : PK Rosy Driver : KV Kumaran

ICAR Adhoc project

Research Associate : CS Sharmila

NABARD project

Research Associate : D Biju : P Bindu : Research Fellow

Small Animal Breeding Station

Farm Assistant : PK Ammini Paulson

Pathology

Farm Supervisor : PC Mary

. PC Lilly (working arrangement

in Dept. of Physiology)

in Dept.

Sr. Office Superintendent : BI Balamani Farm Assistant : AP Peter Attendant : KO Rosakutty · PN Raghavan : P Krishnankutty

Permanent Labourer

Trainee for Electron

Microscope : KK Sanjayan

Research Fellow : Bindhu Chandrasekhar

MK Beena

Parasitology

Lab Assistant : CM Soman

Lab Assistant : Jolly D Karerakattil

Class IV : PJ Mari Labourer : PD Selvi Physiology

Farm Supervisor : K Santhakumari

PC Lilly

Class IV : C Anitha

Poultry Science

Steno to Director : T Valsala

AICRP on Poultry

Farm Assistant Sr. Gr. : V Indira
Farm Assistant Gr. II : N Gopinathan
Farm Assistant Gr. I : K Sivasankaran

Senior Gr. Technician : ET Paul

Section Officer : PN Sudhadevi
Sr. Gr. Assistant : PV Ambika
Sr Gr. Typist : VG Girija
LDV Driver : KS Jayan
Peon : PT Varghese
Class IV : MK Vilasini

Pharmacology

Farm Assistant : VK Gracy
Permanent Labourer : Mary

. Damayanthi

Preventive Medicine

Farm Assistant : PG Thamkom
Class IV : AK Janaky
AI Thomas

Statistics

Jr. Programmer: KP SanthabaiTechnical Assistant: KV PrasadanClass IV: Paul Thirumalai

Public Health

Farm Supervisor : KA Mary
Class IV : PK Karappan
Permanent Labourer : CJ Gregorius

'Vety. Hospital, Mannu thy

Farm Supervisor : CC Narayanan retd. on 31-5-96

N Sugathan from 12-6-96

Section Officer : M Baby

Vety, Hospital, Kokkalai

Sr. Gr. Asst. : VK Beena upto 29-5-96

VR Chandrika

Pharmacist : CK Alias
Farm Supervisor : JK Narayanan
Farm Asst. : KR Sivaramar

Attendant MK Sheik Abdul Rahiman '

MO Varghese

Peon : KS Radhakrishnan

Library

Librarian : KG Ambili Assistant Gr. I : Vijayalakshmi

Lib. Assistant : Pī Wels

> S Sreekumar NB Nisha

Lab. Asst. Gr. II : P Narendran

KK Velayudhan

Class IV : Unni

P Radhakrishnan Nair

: Rosy K Francis Typist Administrative Office: : C Rajamma : KM Mary Section Officer M Rugmini

> Vivian Iose Lillykutty Thomas NK Unnikrishnan

'AT Gracy

Senior Office Supdts. : MK Jainuva

KK Damodaran ""

S Akhileswary Office Supdt. : VG Girija Sl. Gr. Typist Typist Sr. Gr.

: S Sarojini Amma

Manjula Mercy Patric Typist Gr. I

: G Sukumaran Nair K Vijavalakshmi

Clerical Asst./Lab. Assistant : CC Sajeevkumar

M Santhakumari

K Valsala

KK Velayudhan

Duplicator Machine Operator: AV Poulose-

Peon : KN Saraswathy '

M Narabehadur

Class IV PS Santhakumari

> TK Mariam VK Narayanan

SI. Gr. Asst. M Girija

Jacob Simon

TA Mridulakumari

KV Alamelu MA Sujatha

Sr. Gr. Asst. Asst. Gr. I

: C Pradeep : NV Thankom

Anitha Venugopal

R Usha

Asst. Gr. II

: MU Joy R Kamala .. T Sathyadas . K Sureshkumar

~ CD Sreekala

Poultry and Duck Farm, Mannuthy

Professor

: ,Dr G Reghunathan Nair : Dr PA Peethambaran

Assoc. Prof. Sr. Farm Supervisor

: AS Karunakaran

Sln. Grade Farm Asst

: KV Rosily

Sr. Grade Farm Asst

N Sugathan upto 12.6.96

KA Chackochan CC Vijayamma

Administrative Asst

AD Omana upto 16.7.96 VJ Rosily from 17.7.96

Sr Grade Asst.

: E Hymavathy upto 15.7.96

TC Jose from 16.7.96 to 17.2.97

. K Indira Devi from 24.2.79

Sln. Gr. Typist

: KK Mary 🤼 TK Saleena

Peon Higher Grade Cattle Breeding Farm, Thumburmuzhy

Assoc. Prof

: Dr D Sreekumar

Asst. Professor

Asst. Prof.

: Dr KS Anil Dr Ani S Das *

Farm Supervisor, (Agri)

: EN Sudhakaran Nair, FS

Agri Gr. I V Unnikrishnan

F.S. Agri Gr. II

Farm Supervisor (Vety.) V Sukumaran Nair,

F.S, Vety Gr. I

Farm Asst.(Agri)

: :- NM Mohanan F.S. Agri Gr. II

Farm Asst. (Vety.)

: K Chacko Sr. Gr. F. A.

P Mohanan Nair

F.A. Gr. II **

The post is shifted to KVK, Kumarakom pending approval. It will be reverted when KVK, Kumarakom is established.

Granted leave without allowance for 5 years for taking up employment abroad. Relieved w.e.f. 28.2.97 A.N.

Pump Operator A Kotha

Herdsman : KK Ramakrishnan 🝃

> KP Jose ES Yesodha TN Sasi

Admn. Asst.

: PK Elsy : KK Kuttappan Selection Gr. Asst.

Gr. I Asst. : PV Xavier Transferred to

College of Forestry,

Vellanikkara

PV Asokan

Seln, Gr. Typist : PK Sara

Driver LDV .: KK Padmanabhan : TK Thomas Peon

Cattle Infertility Scheme, Kozhikode

Professor · : PP Balakrishnan

Asst. Professor · Vacant

Farm Supervisor (Vety.) K Shanmughan Farm Asst. (Sel. Gr) (Vety.) : K Velayudhan

(Lab Technician)

Lab. Assistant' (Gr. I) : Abdulrahman Attendant (Hr. Gr.) : P Devadasan Sel. Gr. Asst. : . N Kunhilakshmi : C Kunhikrishnan Peon (Hr.Gr.)

University Livestock Farm, Mannuthy

Dr Sosamma Iype upto 8.6.97 Professor

Dr CA Rajagopala Raja .

from 9.6.97

Dr K Ally Asst. Professor

Dr A Kannan

. K Krishnankutty Farm Supervisor

> KL Jose ..P Jayamany 'MC Annie

Farm Assistant KK Pushpan

· CI Surendran K Sachinmayan KK Kuttan

S Rajeev S Rajeev upto 12.6.97 OK Sukumaran upto 13.6.97 upto 12.6.97 MK Chandramathy Upto 25.7.97 C Santha from 1.8.97

Adma. Assistant : VR Vijayamma upto 15.7:97 F.N. PA Lakshmi from 15.7.97 F.N : KK Beena Section Officer Seln. Gr. Asst. : C Santhakumari from 25.8.97 / PP Annamma Sr. Gr. Asst. : Abdul Muthalavi Asst. Gr. I : PG Madhusoodanan Asst. Gr. II : VC Sathy Office Supdt. -: B Kumary Sathyabhama Sel. Gr. Typist : MK Muraleedhara Karnavar Class IV : E Narayanankutty T Bhaskaran KV Rosa P Moideen Lab Assistant Gr. III : PA Mini from 28.11.96 . : Dr DM Thampy Dean i/c Professor (Aquaculture) Professor (Fisheries Research) : Dr PM Mathew Assoc. Prof. * (Aquaculture) : Dr Susheela Jose ·Dr K Jayasree Vadhyar (Fishery · : Dr KK Varma Hydrography) (Biological Dr CJ Cherian Oceanography) (Fishery Techno- P Radhakrishnan Nair logy .. (Processing : Dr D Damodaran Nambudir Technology) (Management : TM Sankaran Studies) (Fishery Engg.) : Vacant Asst Professor (Algology) : Dr Thresiamma James (Fish Breeding) : Dr C Mohanakumaran Nair (Fish Pathology) : Dr C Thankappan Pillai : Dr MV Mohan (Aquaculture) Aneykutty Joseph Devika Pillai S Shyama (Fishery Biology) : Dr J Rajasekharan Nair Dr KV Jayachandran (Zoology) Dr TM Jose (Microbiology Dr MC George : Dr TV Anna Mercy (Ichthyology) Dr KG Sunny

Asst. Professor (Chemical : PS Mrithunjayan Hydrography) (Meteorology) - : NN Raman (Food Science & : Lizy Behanan Nutrition) : Dr Sajan George (Processing. Technology) S Krishnakumar (Biochemistry) : Dr PM Sherief (Fishery Engg.) : George Mathew (Physical Education) : Sucy V John (Statistics) : Alphi Korath V Malika (on deputation for Ph. D.) : KM Mathew (Commerce) (Economics) : MS Raju : Vacant Assistant Librarian : TA Joseph Reference Asst. Lab. Assistant : VS Kunju Mohammed . Lab. Asst. (Gr. I) : P Madhavankutty Lab. Asst. (Gr. II) : VR Lates : PP Pushpakaran Gr. III AN Reghu MA Sebastian John Mendez : 'TK Kunjumon Clerical Asst. : KP Sreedharan Nair Technical Gr. I : MM Babu Hostel Manager Duplicator Operator : K Rajendra Babu Pillai Pump Operator : AP Ayyappan : TK Remanan $_{L^{'}}$ Driver HDV 🕖 LDV : AS Sukumara Marar - AM Abdul Khader. 1,153 ; Agikumar (on work .t. arrangement) Bus Attendant : KK Raghavan Fieldman (Fisheries) : N Chakrapani VK Balakrishnan Fisherman : PJ Kunjappan : Vacant (4 nos.)
: PK Abdul Salam Fisherman Farm Asst. Sel. Gr. Junior Programme: : Tessy K Thomas

TR Ravindran

: .VC Sivarajan

(Higher Gr.

Skipper Gr. II

Engineer i/c.

Gear Technician	: Vacant
Deck Hand	: KB Karthikeyan
4 2 4	KP Ponnappan
	PK Benny
Field Asst. (STED project)	: Binu Paul (Relieved w.e.f.
, , , ,	26.4.97)
Sr. Research Fellow	: B Rameshkumar (Relieved
	w.e.f. 20.11.96
	PS Smitha
•	V Anjana
Admn. Officer Gr. \(\frac{1}{2} \)	: Maryamma Eapen
Section Officer	: L Syamala Devi
	MN Vijayakumar
;	··C Suchetha
Sr Office Sundt	: PV Brizitha
Sr. Office Supdt	- -
C1	R Sarada Devi
Sl. Gr. Asst.	: K Vinaya Bai
Sr. Gr. Asst.	VM Ammini
51. G1. ASSI.	: MD Kunjamma
	KP Sajan
	P Annamma Scaria
G . I F	Gopinatha Kartha
Gr. I Asst.	: TM Maheswaran
	B Anujan
/	Pius Felix
Grade II Asst.	KK Sreedevi
Office Supdt.	: HK Khadeeja Beevi
SI. Gr. Typist	: Salomi Silas
,	KA Geetha
Grade II Typist	: V Vijayan
Class IV	: R Gopal Singl
	.KN Sasikumai
	KM Khadeeja
in the	TK Abdul Majeed
Sweeper-cum-Attendan	: KJ Jose
Full Time Sweeper	:: E Leelamani
1 11	PB Nabeesa
	12 11420434
Fisheries Station, Puduveypu	· · ·
Assoc. Prof. (Aqua) 🕟 🖽	: Dr KS Purushan
Asst. Prof. (Aqua) $_{DH',f}$ $_{D}$: Dr MM Jose Assoc. Prot.
, ⁶ ,	Dr Elizabeth Joseph
	Assoc. Prof.
Asst. Professor (Ag)	Dr Annamma George,
1	Assoc. Pro
Administrative Assistant,	: MS Zulaika Beebi

Asst. Gr. I ; PA George Asst. Gr. II : MS Sanalkumar, Seln., Gr. Asst. Farm Asst. Gr. I : AX George F.A. Gr. I PA Moni Sr. Gr. Farm Asst. Fieldman (Fisheries) : KK Reghu, Hr. Gr. Pump Operator : EI Anthrew R Soman Lab. Assistant Gr. II : MS Moni : TC Ajitha Typist Gr. I Typist Grade II Field Asst. (Temporary): : Gayathri Devi TS Sindu Sr. Research Fellow S Beena Leela Joseph MK Vinodkumar MA Mariyam Driver M Ajikumar Kelappaji College of Agricultural Engineering and Lecnnology, Tavanur Dean : Dr K John Thomas Department of LWRCE Asst. Professor 😘 Xavier K Jacob Noble Abraham J Renuka Kumari KP Rema KV Levan (on working arrangement from KVK Manjeswaram) Department of IDE Asst. Professor EK Kurien (Against the post of Assoc. Professor) P Suseela (Alexander Seth KP Visalakshy D Sasikala F Mary Regina *** , 1 1 Department of FPME Professor CP Muhammed Asst. Professor VR Ramachandran (on study leave) G Sreekala (-do-Hamza Mullakadavathu (

> M Bindu PR Jayan

Department of PHT & AP

· Dr V Ganesan Assoc. Professor : MV Prince Asst. Professor

Santhy Mary Mathew (on study

Department of SAC

: Dr KI Koshv Professor : Dr PC Antony Assoc. Professor Asst. Professor

: Dr E Komala Amma

Dr KA Bindu

Dr Habeeburrahiman Dr KM Valsamma VP Lakshmikutty M Velayudhankutty

Josephina Paul

Instructional Farm

: P Rajendran (on study leave) Assistant Professor

ICAR-FIM

: Dr M Sivaswami Assoc. Professor : Sathyajith Mathew Asst. Professor

(on study leave)

C. S. S. Plasticulture Devélopment Centre

Assoc. Professor . . : Dr Jobi V Paul : Dr U Sreelatha Asst. Professor

AICRP on Engery Requirement of Agrl. Sector

Assoc. Professor : Jippu Jacob : Toby Bastian . Asst. Professor : AK Sreenarayanan Sr. Admn. Officer

: K Leelamma Section Officer

"C Arumughan KU Prabhavathy P Janardanan : KP Abdurahiman

Sr. Office Supdt. : KJ Kuruvila Sin. Grade Asst.

: A Radhakrishnan Sr. Grade Asst.

' 'VK Sobhana

: P Radha Gopan Assistant Grade I'

C Gopi

V: P Sivaprasad Assistant Grade II

Abdul Nazar Aryadan

D Anilsankar

Vincent G Varghese

K Velayudhan

: M Mohandas Sln. Grade Typist Typist Gr. I :: VM Muraleedharan Typist Gr. II : Kamalam Abdul Raheem Machingal Research Assistant : AP Gopalakrishnan Reference Assistant : KP Sathyan Library Assistant : Sebastian Dominic : Vacant Draftsman (Civil) Technical Supervisor: (Carpentary) : AK Padmanabhan (Smithy) : VP Kannan (Fittings) : CS Krishnan 3 . C Velayudhan (Auto Tractor) . (Turning) . TP Aboobacker Trade Asst. (Ele.) , Surendran Pillai Pump Operator E Parameswaran Nair MK Balakrishnan Driver (LDV) Gr. I NV Krishnan' MK Narayanan A Gopakumar Technician Sl. Gr. VK Asokan P Balakrishnan TP Santhamma Matron Lab Asst. Gr. I P Krishnankutiy Nair Lab Asst. Gr. III PV Kumaran K 'Adbulrahiman' I Jayaprakash KK Subramanian Class IV K Kunhan C Narayanan A Burhanudheer KP Ayyappan K Kuttikrishnan P Amina P Krishnan KV Moideenkutty. K Kunjumon AV Dasan T Gangadharan Instructional, Farm Farm Supervisor Gr. I MV Raveendran ... K Sethumadhavan Farm Supervisor Gr. II.: C Subramanian Farm Asst. (Agri.) Gr. I K Mohammed TP Aboobacker

Farm Asst. (Vety.) Gr. I	: P Balakrishnan : T Venu : K Mammikutty	
ICAR Co-ord. Project on FIM		
Technician Sln. Grade Technician Sr. Grade	: KT Ramachandran : K Aravindan : N Narayanan : M Muraleedharan	
AICRP on Energy Requirement in Agrl. Sector		
Typist Sr. Grade	R Balasubramanian	
KVK , Ambalayayal	- '	
Training Organiser/ Assoc. Professor	CM George	
Training Associate/ Assoc. Professor	Dr A Radhamma Pillai	
Poultry/Animal	•	
Husbandry		
Horticulture Agricultural	Philipose Joshua - 19	
Extension :	Dr K Abdul Kareem	
	: "Dr TP Manomohandas	
	K Susan Cherian	
Training Assistant/		
Technical Assistants	* . *	
Agronomy	MK Manoj	
Home Science Fisheries	KS Rajamani	
_	MK Sreedharan	
Animal Husbandry AV (Technician)	KR Sasidharan KP Koran	
Section Officer	E George	
Asst. Gr. II	Vacant	
Typist Gr. II	Vacant	
Driver Gr. I	'PP Abdul Majeed	
Tractor Driver	Vacant	
Class IV employees	-	
Reon	Silak Bahadur	
Watchman	К Коуа	
Hostel Attendant	K Bapputty	
Field Attendant	T Saidalavi	
· = 1 · ·	E Abu	
	N Chandu	
Cook	O Ashokan i	

```
Krishi Vigyan Kendra, Pallambi
Assoc. Professor & Head : Dr. GS Narayanan upto 21.11.96
                        Prof. VP Sukumara Dev
                               31.11.96 to 31.12.96
                         Dr. P. Ahamed from 1.1.91
Asst. Prof. (Extn.) Dr. P. Ahamed
         (Home Science) :: Dr S Syamakumari
          (Hort) : Dr Jyothi Bhaskar
                     : Dr Betty Bastin
         (SS & AC)
                        : Dr S Manu Mohan
          (AH)
         (Agro-forestry) : Dr Asha Sankar
                 : KK Remesan
          (Agro)
                      .. : U Divakar from 18.12.96
Training Assistants
                           ER Soman from 28.11.96
                          AN Manoj ,,
Farm Asst, (Agri.) Gr. I : EL Raicheal upto 17.12.96
                           CP Mohammed
                           Abdul Azeez upto 30.6.96
                         : -T Velayudhan upto 27.11.96
Farm Asst. (Agri.) Gr. I
                           M Rajendran upto 27.11.96
Farm Asst. (Vety.) Gr. II. . : KV Mohanan from 1.6.96
Technician (AVO) Sr.Gr. : M Abdul Razack | | | |
Section Officer
                       : K Rangaswamy
Assistant Gr. I
                        : K Surendran
Typist Grade I
                        : MK Thankamani
                      🗸 : - A Krishnan
HDV Driver
                       : TR Sasidharan
: C Gopalakrishnan
LDV Driver
Peon (Hr. Gr.)
                        : M Sundaran .,
Class IV
                        · · · C Parukutty
                         _ -V Vasunny
                           NP Thankamani
                           AP Yesodha
                           T Mohanadas
KVK, Manjeswar
Professor
                         : P Ramachandran Nair
                                            upto 1.12.96
Asst. Professor (Fisheries), : B Shantharam Head of office
                                          w. e. f. 1.12.96
Asst. Professor (Agrl. Engg.):: "KV Levan on working arrange-
                           ment at KCAE&T Thavanur from
                    Asst. Prof. (Agrl: Extn)
                        : AK Sherief from 1.10.96
```

Research Associate S Gopakumar (Forestry) Research Assoc. (Agrl. Extn.): R Sureshkumar upto-10.7.96 (Agron.) : GC Roshni From 18.3.97
Farm Assistant Sr. Gr. : A Ramakrishnan
Section Officer : T Somasundaran : Justine J Kannanthanam Driver Gr. III 🚉 upto 7.11.96 V Kuttikrishnan from 8.11.96 Directorate of Extension, Mannuthy Director of Extension : Dr E Tajudeen upto 8.96 Dr K Rajamohanan from 12.8.96 Assoc. Director of Extension: Dr K Rajamohanan Section Officer : PV Sreekumaran 🛒 ; 🤫 N Usha Rani : TD Jose Senior Office Supdt. : PP Rosy Office Superintendent Typist Gr. I : -AC Mancy Driver 🕝 : NA Sukumaran Peon :MPD Annamma Kochammu Communication Centre, Mannuthy Assoc. Professor : Jose Joseph Publication Unit : Vacant Professor -:- TC Radhakrishnan Associate Professor : V Kunchu Asst. Professor : Vacant Asst. Prof. (A. H.) Information Unit Professor (Agri. Extn.) . : Vacant ': 'Dr AD Antony Asst. Prof. (Aqua) Dr PA Joseph (working arrangement at ICSC) Assistant Professor (A. H) : Vacant Exhibition and Graphic Services Unit ': KK Santha Assoc. Prof. (Hort.) Asst. Professor : Vacant Farm Advisory Service Unit Director of Extension i/c. : Vacant Professor (Agron.) : Vacant ;)

Prof. & Head. Assoc. Professor (Agri. Ent.) (Agron) Asst. Professor (Ag. Chem. & Soil Sci.) Asst. Professor (Plant Pathology) Language Editor (Plant Pathology) Language Editor (Parm Asst. Gr. I (Vacant Parm Asst. Gr. I (Vacant Parm Asst. Gr. I (Vacant Pathology) Language Editor (Parm Asst. Gr. I (Vacant Parm Asst. Gr. I (Vacant Pathology) Language Editor (Parm Asst. Gr. I (Vacant Parm Asst. Gr. II (Vacant	Professor (Pl. Prot.) A State of:	Dr KP Vasudevan Nair (upto 8-5-95)
Assoc. Professor (Agri. Ent.) (Agron) Asst. Professor (Ag. Chem. & Soil Sci.) Asst. Professor (Plant Pathology) Language Editor Farm Supervisor Gr. I Farm Asst. Gr. I Audio Visual Operator Photographer Driver (LDV) Senior Gr. Assistant Peon Hr. Gr. Section Officer Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG Prof. Reader (HG) Computor Sr. Gr. Printer H. G. Printer H. G. Compositor K. Assistant Dr S Jayasree Sankar R Mrudula Devi Farm Vacant Fusiama George Eugine G Varghese VV Satheesan Fusiama George Eugine Gueral Fusiama George Eugine Gueral Fusiama George Eugine Gueral Fusiama George Eugine Gueral Fusiama George Fusiama Sanka Fusiama Sanka Fusiama Sanka Fusiama Sanka Fusiama Sanka Fusiama Sanka Fusiama Sa	Prof. & Head :	Dr P Varadarajan Nair
Asst. Professor (Agron) Asst. Professor (Plant Pathology) Language Editor Farm Supervisor Gr. I Farm Asst.	Assoc Professor (Agri Ent.)	Dr MK Sheela
Asst. Professor (Ag. Chem. & Soil Sci) Asst. Professor (Plant Pathology) Language Editor Farm Supervisor Gr. I Farm Asst. Gr. I Audio Visual Operator Photographer Driver (LDV) Senior Gr. Assistant Peon Hr. Gr. Section Officer Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press Manager General Foreman Senior Foreman (HG) Proof Reader (HG) Computor Sr. Gr. Printer H. G. Printer H. G. Compositor Language Editor SE Stetlitta K Mrudula Devi Vacant Valsamma George Eugine G Varghese VV Satheesan Pal Jacob Joe KL Liza Prema B Nair MK Ramakrishnan MK Ramakrishnan MK Shailaja KN Pushpangadhan KN Pushpangadhan KN Chandralekha Santha Viswanathan K Rajappan Vacant Viswanathan Vacant Viswanathan Vacant Vi Lionappan Sherly Sam Vacant Vacant Vi Lonappan K Sadasivan C Viswanathan K Santhakumari TP Joseph (C Viswanathan K Santhakumari Vacant Vi Subramanyan KM Thankamma PA Elsy H. G. Compositor PM Santha Leela H. G. Compositor PM Santha Leela H. G. Compositor PM Santha	ribboo, riolebbor (rigin Anti) .	Dr Suma Paulose
Asst. Professor (Ag. Chem. & Soil Sci.) Asst. Professor (Plant Pathology) Language Editor Farm Supervisor Gr. I Farm Asst. Gr. I Audio Visual Operator Photographer Driver (LDV) Senior Gr. Assistant Peon Hr. Gr. Section Officer Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG Proof Reader (HG) Computor Sr. Gr. Printer H. G. Printer H. G. Compositor H. Si Jayasree Sankar K Mrudula Devi K Mrudula Devi Vacant Palsamma George Eugine G Varghese VV Satheesan Valsamma George Eugine G Varghese VV Satheesan Valsamma George Eugine G Varghese VV Satheesan Fulliam B Nair K Ramakrishnan MK Ramakrishnan KKN Pushpangadhan KN Pushpangadhan KN Chandralekha Santha Viswanathan K Rajappan Vacant Vacant Press Manager Vacant Proof Reader Gr. I (HG Sherly Sam Vacant PI Lonappan K Sadasivan C Viswanathan H. G. Printer NJ Samuel PR Aravindakshan Sr. Gr. Compositor V Rajendran K Leela H. G. Compositor PM Santha Leela H. G. Compositor PM Santha Leela	(Agron) :	
Asst Professor (Plant Pathology) Language Editor Farm Supervisor Gr. I Farm Asst. Gr. I Audio Visual Operator Photographer Driver (LDV) Senior Gr. Assistant Peon Hr. Gr. Section Officer Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press Manager General Foreman Senior Foreman (HG) Proof Reader (HG) Proof Reader (HG) Compositor K. G. Compositor H. M. Santha Windershap Wacant Wacant Settion Officer K. Rajappan Wacant Wacant Fress, Mannathy Press, Mannathy Press, Mannathy Press, Mannathy Press Manager K. Rajappan Wacant PI Lonappan Sherly Sam Vacant Fresseder (HG) C. Viswanathan W. Santhakumari T. TP Joseph C. Viswanathan W. Santhakumari W. Supermanyan K. Thankamma P. Elsy H. G. Compositor P. V. Rajendran K. Leela H. G. Compositor P. W. Santha L. G. Compositor P. V. Rajendran K. Leela P. M. Santha L. G. Compositor P. V. Rajendran K. Leela P. M. Santha L. G. Compositor P. W. Santha L. G. Compositor P. W. Santha L. G. Compositor P. W. Rajendran K. Leela P. M. Santha L. G. Compositor P. W. Santha L. G. Compositor P. M. Santha L. G. Compositor P. W. Santha L. G. Compositor P. G. Compositor P. W. Santha L. G. Compositor P. M. Santha P. Compositor P. W. Santha P. Compositor P. W. Santha P. C. Compositor P. W. Santha P. C. Compositor P. W. Santha P. G. Compositor P. W. Santha P. C. Compositor P. W. Santha P. V. C. Compositor P. W. Santha P. C. Compositor P. W. Santha P. V. C. Compositor P. W. Santha P. V. C. Compositor P. W. Santha P. V. C. Compositor P. V. Santha P. V. Santha P. V. Santha P. V. Santh	Asst. Professor :	
(Plant Pathology) Language Editor : K Mrudula Devi Farm Supervisor Gr. I : Vacant Farm Asst. Gr. I : Valsamma George Audio Visual Operator : Eugine G Varghese Photographer : VV Satheesan Driver (LDV) : Benny Senior Gr. Assistant : PA Jacob Joe KL Liza Prema B Nair Peon Hr. Gr. : MK Ramakrishnan Section Officer : MK Shailaja Administrative Assistant : KN Pushpangadhan Malayalam Translator : KN Chandralekha Asst. Gr. II : Santha Viswanathan Kerala Agricultural University Press, Mannathy Press Manager : K Rajappan General Foreman : Vacant Senior Foreman (HG) : PI Lonappan Proof Reader (HG) : Sherly Sam Proof Reader (HG) : Sherly Sam Proof Reader (HG) : KK Sadasivan Computor : K Santhakumari Sr. Gr. Printer : NJ Samuel PR Aravindakshan Sr. Gr. Compositor : V Subramanyan KM Thankamma PA Elsy H. G. Compositor : PM Santha LG Compositor : PM Santha LG Compositor : PM Santha LG Compositor : PM Santha	(Ag. Chem. & Soil Sci.)	
Language Editor Farm Supervisor Gr. I Farm Asst. Gr. I Audio Visual Operator Photographer Driver (LDV) Senior Gr. Assistant Peon Hr. Gr. Section Officer Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG Proof Reader (HG) Computor Sr. Gr. Printer H. G. Printer H. G. Compositor K. Mrudula Devi Vacant Valsamma George Eugine G Varghese Valsame Benny Benny PA Jacob Joe KL Liza Prema B Nair MK Ramakrishnan KR Ramakrishnan KR Ramakrishnan KR Ramakrishnan KN Pushpangadhan KN Pushpangadhan KN Pushpangadhan KR Santha Viswanathan KR Santha Viswanathan KR Santha Viswanathan KR Santha Viswanathan KR Santhakumari FI Lonappan FI Lonappan FI Lonappan FI Joseph GC Viswanathan K Santhakumari FI Joseph GC Viswanathan K Santhakumari FI Joseph GC Viswanathan K Santhakumari FI Joseph GC Viswanathan KM Thankamma FI Elsy H. G. Compositor FI Mankamma FI Elsy H. G. Compositor FI Mankamma FI Elsy H. G. Compositor FI Mankamma FI Elsy FI Mantha FI Elsy F		S Estelitta
Farm Supervisor Gr. I Farm Asst. Gr. I Farm Asst. Gr. I Audio Visual Operator Photographer Driver (LDV) Senior Gr. Assistant Peon Hr. Gr. Section Officer Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press, Mannathy Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG Proof Reader (HG) Computor Sr. Gr. Printer (HG) Sr. Gr. Compositor H. G. Compositor Farm Asst. Gr. I Valsamma George Eugine G Varghese Valsame Falighe G Varghese Was thesesan PA Jacob Joe KL Liza Prema B Nair MK Ramakrishnan E MK Shailaja KN Pushpangadhan KN Pushpangadhan KR Chandralekha Santha Viswanathan K Rajappan Vacant Vacant Sherly Sam Proof Reader Gr. I (HG Sherly Sam Proof Reader (HG) C Viswanathan H. G. Printer PR Aravindakshan FR Aravindakshan FR Elsy H. G. Compositor PM Santha LG Compositor PM Santha LG Compositor PM Santha LG Compositor PM Santha	(Plant Pathology)	What is a second of the second
Farm Supervisor Gr. I Farm Asst. Gr. I Farm Asst. Gr. I Audio Visual Operator Photographer Driver (LDV) Senior Gr. Assistant Peon Hr. Gr. Section Officer Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press, Mannathy Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG Proof Reader (HG) Computor Sr. Gr. Printer (HG) Sr. Gr. Compositor H. G. Compositor Farm Asst. Gr. I Valsamma George Eugine G Varghese Valsame Falighe G Varghese Was thesesan PA Jacob Joe KL Liza Prema B Nair MK Ramakrishnan E MK Shailaja KN Pushpangadhan KN Pushpangadhan KR Chandralekha Santha Viswanathan K Rajappan Vacant Vacant Sherly Sam Proof Reader Gr. I (HG Sherly Sam Proof Reader (HG) C Viswanathan H. G. Printer PR Aravindakshan FR Aravindakshan FR Elsy H. G. Compositor PM Santha LG Compositor PM Santha LG Compositor PM Santha LG Compositor PM Santha	Language Editor :	K Mrudula Devi
Audio Visual Operator Photographer Driver (LDV) Senior Gr. Assistant Peon Hr. Gr. Section Officer Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press, Mannathy Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG) Proof Reader (HG) Computor Sr. Gr. Printer (HG) Fr. Gr. Printer H. G. Printer H. G. Compositor Eugine G Varghese VV Satheesan VV Satheesan PA Jacob Joe KK Liza Prema B Nair Pema B Nair Prema B Nair Prema B Nair RK Ramakrishnan KN Pushpangadhan KN Chandralekha Santha Viswanathan K Rajappan Vacant Sherly Sam PI Lonappan KK Sadasivan KK Sadasivan C Viswanathan H. G. Printer IN J Samuel PR Aravindakshan Sr. Gr. Compositor V Rajendran K Leela H. G. Compositor PM Santha LG Compositor PM Santha	Farm Supervisor Gr. I ::	Vacant Cara Cara Cara Cara Cara Cara Cara Car
Photographer Driver (LDV) Senior Gr. Assistant Peon Gr. Assistant Peon Hr. Gr. Section Officer Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press, Mannathy Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG Proof Reader (HG) Computor Sr. Gr. Printer (HG) Ky Satheesan Benny PA Jacob Joe KL Liza Prema B Nair MK Shailaja KN Pushpangadhan KN Chandralekha Santha Viswanathan K Rajappan Vacant Vacant Sherly Sam Proof Reader Gr. I (HG Sherly Sam Proof Reader (HG) C Viswanathan K Santhakumari Sr. Gr. Printer INJ Samuel PR Aravindakshan Sr. Gr. Compositor V Subramanyan KM Thankamma PA Elsy H. G. Compositor PM Santha LG Compositor PM Santha LG Compositor PM Santha	Farm Asst. Gr. I	Valsamma George
Driver (LDV) Senior Gr. Assistant PA Jacob Joe KL Liza Prema B Nair Peon Hr. Gr. MK Ramakrishnan MK Shailaja Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press, Mannathy Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG) Proof Reader (HG) Computor Sr. Gr. Printer (HG) H. G. Printer MK Shailaja KN Pushpangadhan KN Chandralekha Santha Viswanathan KR Rajappan Vacant Press, Mannathy Vacant Sherly Sam Fill Lonappan KK Sadasivan KK Santhakumari Sr. Gr. Printer (HG) TP Joseph (C Viswanathan H. G. Printer NJ Samuel PR Aravindakshan Sr. Gr. Compositor V Subramanyan KM Thankamma PA Elsy H. G. Compositor (Hr. Gr.) V Rajendran K Leela H. G. Compositor PM Santha LG Compositor 1 PM Santha		
Senior Gr. Assistant PA Jacob Joe KL Liza Prema B Nair Peon Hr. Gr. MK Ramakrishnan MK Shailaja Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press, Mannathy Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG) Proof Reader (HG) Computor Sr. Gr. Printer (HG) H. G. Printer MK Shailaja KN Chandralekha Santha Viswanathan KR Rajappan Vacant PI Lonappan KK Sadasivan KK Sadasivan KK Santhakumari Sr. Gr. Printer (HG) TP Joseph (C Viswanathan H. G. Printer NJ Samuel PR Aravindakshan Sr. Gr. Compositor V Subramanyan KM Thankamma PA Elsy H. G. Compositor PM Santha LG Compositor PM Santha LG Compositor LG Compositor LG Compositor LG Compositor RL Leela H. G. Compositor LG Compositor RA Jacob Joe MK Ramakrishnan MK Pashalaja AND Viswanathan Vacant Vacant Vacant Sherly Sam Vacant	Photographer :	VV Satheesan
Peon Hr. Gr. Peon Hr. Gr. MK Ramakrishnan MK Shailaja Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press, Mannathy Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG Proof Reader (HG) Computor Sr. Gr. Printer (HG) H. G. Printer H. G. Compositor KL Liza Prema B Nair MK Ramakrishnan KN Pushpangadhan KN Pushpangadhan KN Chandralekha Santha Viswanathan K Rajappan Vacant PI Lonappan PI Lonappan KK Sadasivan Computor KK Santhakumari TP Joseph (C Viswanathan H. G. Printer PR Aravindakshan Sr. Gr. Compositor V Subramanyan KM Thankamma PA Elsy H. G. Compositor PM Santha LG Compositor PM Santha LG Compositor PM Santha LG Compositor PM Santha LG Compositor PM Santha	Driver (LDV)	Benny
Prema B Nair Peon Hr. Gr. Section Officer Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press, Mannathy Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG) Proof Reader (HG) Computor Sr. Gr. Printer (HG) H. G. Printer H. G. Compositor Prema B Nair MK Ramakrishnan KN Pushpangadhan KN Pushpangadhan KN Chandralekha Santha Viswanathan Vacant Fress, Mannathy Press, Mannathy Press, Mannathy Press, Mannathy Fress, Mannathy Fress, Mannathy Fress, Mannathy Vacant Sherly Sam Froof Reader (HG) KK Sadasivan KK Santhakumari TP Joseph C Viswanathan H. G. Printer PR Aravindakshan PA Elsy H. G. Compositor (Hr. Gr.) V Rajendran K Leela H. G. Compositor PM Santha LG Compositor PM Santha	Senior Gr. Assistant	PA Jacob Joe
Peon Hr. Gr. : MK Ramakrishnan Section Officer : MK Shailaja Administrative Assistant : KN Pushpangadhan Malayalam Translator : KN Chandralekha Asst. Gr. II : Santha Viswanathan Kerala Agricultural University Press, Mannathy Press Manager : K Rajappan General Foreman : Vacant Senior Foreman (HG) : PI Lonappan Proof Reader Gr. I (HG : Sherly Sam Proof Reader (HG) : KK Sadasivan Computor : K Santhakumari Sr. Gr. Printer (HG) : TP Joseph : C Viswanathan H. G. Printer : NJ Samuel PR Aravindakshan Sr. Gr. Compositor : V Subramanyan KM Thankamma PA Elsy H. G. Compositor (Hr. Gr.) : V Rajendran K Leela H. G. Compositor : PM Santha LG Compositor : PM Santha		
Section Officer Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press, Mannuthy Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG) Proof Reader (HG) Computor Sr. Gr. Printer (HG) H. G. Printer H. G. Compositor H. G. Compositor KN Pushpangadhan KN Pushpangadhan KN Pushpangadhan KR Rajappan Vacant PI Lonappan KK Sadasivan KK Sadasivan KK Santhakumari Sr. Gr. Printer (HG) TP Joseph C Viswanathan KM Thankamma PA Elsy H. G. Compositor (Hr. Gr.) K Leela H. G. Compositor PM Santha LG Compositor 1 4 posts vacant		
Administrative Assistant Malayalam Translator Asst. Gr. II Kerala Agricultural University Press, Mannathy Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG) Proof Reader (HG) Computor Sr. Gr. Printer (HG) H. G. Printer The Aravindakshan Sr. Gr. Compositor K N Chandralekha K N Chandralekha K Rajappan Vacant PI Lonappan K Sam KK Sadasivan KK Sadasivan K Santhakumari TP Joseph (C Viswanathan H. G. Printer NJ Samuel PR Aravindakshan Sr. Gr. Compositor W Subramanyan KM Thankamma PA Elsy H. G. Compositor (Hr. Gr.) V Rajendran K Leela H. G. Compositor PM Santha LG Compositor 1 4 posts vacant	Peon Hr. Gr.	MK Ramakrishnan
Malayalam Translator Asst. Gr. II Kerala Agricultural University Press, Mannathy Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG) Proof Reader (HG) Computor Sr. Gr. Printer (HG) H. G. Printer H. G. Compositor K N Chandralekha Santha Viswanathan K Rajappan Vacant PI Lonappan PI Lonappan K K Sadasivan K Santhakumari TP Joseph (C Viswanathan K Tankamma PR Aravindakshan Sr. Gr. Compositor W Subramanyan KM Thankamma PA Elsy H. G. Compositor PM Santha LG Compositor PM Santha LG Compositor 1 PM Santha LG Compositor 1 A posts vacant	Section Officer	်မျှK Shailaja
Kerala Agricultural University Press, Mannathy Press Manager : K Rajappan General Foreman : Vacant Senior Foreman (HG) : PI Lonappan Proof Reader Gr. I (HG : Sherly Sam Proof Reader (HG) : KK Sadasivan Computor : K Santhakumari Sr. Gr. Printer (HG) : TP Joseph (C Viswanathan) H. G. Printer : NJ Samuel PR Aravindakshan Sr. Gr. Compositor : V Subramanyan KM Thankamma PA Elsy H. G. Compositor (Hr. Gr.) : V Rajendran K Leela H. G. Compositor : PM Santha LG Compositor : 4 posts vacant	Administrative Assistant · 🕟 👫	···KN Pushpangadhan
Kerala Agricultural University Press, Mannathy Press Manager : K Rajappan General Foreman : Vacant Senior Foreman (HG) : PI Lonappan Proof Reader Gr. I (HG : Sherly Sam Proof Reader (HG) : KK Sadasivan Computor : K Santhakumari Sr. Gr. Printer (HG) : TP Joseph (C Viswanathan) H. G. Printer : NJ Samuel PR Aravindakshan Sr. Gr. Compositor : V Subramanyan KM Thankamma PA Elsy H. G. Compositor (Hr. Gr.) : V Rajendran K Leela H. G. Compositor : PM Santha LG Compositor : 4 posts vacant	Malayalam Translator :	KN Chandralekha
Press Manager General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG) Proof Reader (HG) Computor Sr. Gr. Printer (HG) H. G. Printer Fr. Gr. Compositor H. G. Compositor H. G. Compositor Fr. Gr. Comp	Asst. Gr. II :	Santha Viswanathan '
General Foreman Senior Foreman (HG) Proof Reader Gr. I (HG) Proof Reader (HG) Sherly Sam Proof Reader (HG) KK Sadasivan Computor K Santhakumari Sr. Gr. Printer (HG) CV Viswanathan H. G. Printer PR Aravindakshan Sr. Gr. Compositor W Subramanyan KM Thankamma PA Elsy H. G. Compositor W Rajendran K Leela H. G. Compositor PM Santha LG Compositor A posts vacant		•
Senior Foreman (HG) : PI Lonappan Proof Reader Gr. I (HG) : Sherly Sam Proof Reader (HG) : KK Sadasivan Computor : K Santhakumari Sr. Gr. Printer (HG) : TP Joseph (CC Viswanathan) H. G. Printer : NJ Samuel PR Aravindakshan Sr. Gr. Compositor : V Subramanyan KM Thankamma PA Elsy H. G. Compositor (Hr. Gr.) : V Rajendran K Leela H. G. Compositor : PM Santha LG Compositor : 4 posts vacant		
Proof Reader Gr. I (HG) : Sherly Sam Proof Reader (HG) : KK Sadasivan Computor : K Santhakumari Sr. Gr. Printer (HG) : TP Joseph (C) Viswanathan H. G. Printer : NJ Samuel PR Aravindakshan Sr. Gr. Compositor : V Subramanyan KM Thankamma PA Elsy H. G. Compositor (Hr. Gr.) : V Rajendran K Leela H. G. Compositor : PM Santha LG Compositor : 4 posts vacant	General Foreman	Vacant
Proof Reader (HG) : KK Sadasivan Computor : K Santhakumari Sr. Gr. Printer (HG) : TP Joseph (C Viswanathan) H. G. Printer : NJ Samuel PR Aravindakshan Sr. Gr. Compositor : V Subramanyan KM Thankamma PA Elsy H. G. Compositor (Hr. Gr.) : V Rajendran K Leela H. G. Compositor : PM Santha LG Compositor : 4 posts vacant	Senior Foreman (HG)	'PI Lonappan
Computor Sr. Gr. Printer (HG) (C Viswanathan H. G. Printer PR Aravindakshan Sr. Gr. Compositor KM Thankamma PA Elsy H. G. Compositor W Rajendran K Leela H. G. Compositor PM Santha LG Compositor 1 4 posts vacant		
Sr. Gr. Printer (HG) (C Viswanathan H. G. Printer (PR Aravindakshan Sr. Gr. Compositor (W Subramanyan (M Thankamma (PA Elsy) H. G. Compositor (Hr. Gr.) (K Leela H. G. Compositor (C Viswanathan (PR Aravindakshan (PA Elsy) (PR Els	•	
H. G. Printer Sr. Gr. Compositor H. G. Compositor H. G. Compositor (Hr. Gr.) H. G. Compositor	-	•
H. G. Printer PR Aravindakshan Sr. Gr. Compositor KM Thankamma PA Elsy H. G. Compositor (Hr. Gr.) V Rajendran K Leela H. G. Compositor PM Santha LG Compositor 1. A posts vacant	Sr. Gr. Printer (HG) :	
PR Aravindakshan Sr. Gr. Compositor KM Thankamma PA Elsy H. G. Compositor (Hr. Gr.) V Rajendran K Leela H. G. Compositor PM Santha LG Compositor 1 4 posts vacant		(,C Viswanathan
Sr. Gr. Compositor KM Thankamma PA Elsy H. G. Compositor (Hr. Gr.) K Leela H. G. Compositor PM Santha LG Compositor 4 posts vacant	H. G. Printer	. NJ Samuel
H. G. Compositor (Hr. Gr.) H. G. Compositor H.	The internet of	. PR Aravindakshan
H. G. Compositor (Hr. Gr.) H. G. Compositor H.	Sr. Gr. Compositor	V Subramanyan
H. G. Compositor (Hr. Gr.) : V Rajendran K Leela H. G. Compositor : PM Santha LG Compositor : 4 posts vacant		KM Thankamma
H. G. Compositor : PM Santha LG Compositor : .4 posts vacant	H. G. Compositor (Hr. Gr.)	
H. G. Compositor : PM Santha LG Compositor : 4 posts vacant	1777	K Leela
	LG Compositor :	4 posts vacant
	Sr. Gr. Binder :	KR Vijayan

HG Binder (HG) : PT Annie

LG Binder : G Parvathy Ammal

M Kamalamma

Helper : VN Hassan Section Officer : EK Bharathy

Sel, Gr. I Asst. : Sophiamma Joseph

K Subramonian K Balakrishnan

Office Supdt. : K J Lonan
Peon : IR Rajan

Central Training Institute, Mannuthy

Prof. of Extn : Dr G Balakrishna Pillai

from 5.8.96

Assoc. Prof. : Dr Joy Mathew Held charge of

Professor upto 4.8.96

Asst. Prof. : Dr Alexander George

Farm Supervisor : MJ Kochappan (on working Farm Asst. : PB Bhashajan arrangement at

Information & Sales Centre,

Mannuthy)

Section Officer : KK Radhakrishnan

Assistant Gr I : MN Jayanthi

Samson J Koladi

Sl. Gr. Typist : ER Vilasini

Sr. Gr. Typist : P Prasannakumari ...

Driver LDV : VN Dasan

Dup. Machine Operator : CR Antony

Peon : PB Anilkumar

KAU School, Vellanikkara

Headmaster : AJ Abraham

Teacher (Eng. Med.) : KP Thresiamma

Deborah Cyril

Al Lilly

KS Indira Devi Latha Balaram Teacher (Mal. Med.) : TJ Magy

Najeema Unnikkammu

KS Leena K Narayani V Sasidharan MA Alli

PK Bhaskaran MV Mary

Teacher : MK Mallika

Nursery School Asst. : P Devika

DV Shylaja

Ayah : KR Sumithra

M Saudamini

Peon : VA Mathew

Class IV : M Parvathy

PR Janaky

 $\square \perp$

Sr. Gr. Asst. : MW Wilson Rai

Appendix V

LIST OF PUBLICATIONS/RADIO TALKS/ TV PROGRAMMES ATTENDED

College of Agriculture, Vellayani

Research papers

- Sudharma K, Naseema Beevi S, Mathew TB and Nalina kumari T 1997. Lindane—a safe substitute for HCH (BHC) in vegetable pest management *Proc IX* Kerala Science Congress pp 149-150
- Naseema Beevi S, Visalakshi A and Mathew TB 97. Tracing the source of insecticide contamination of bovine milk in Thiruvananthapuram Ibid pp 179-180
- Sheela MS, Hebsy bai and Anitha N 96. Ecofriendly management strategies for the burrowing nematode of banana in Kerala. Paper presented in the banana symposium on 30.7.96
- Hebsy bai, MS Sheelaland Jiji 96. Crop rotation—a management strategy for rice root nematode. Hirschmanniella oryzae in rice based cropping system J. Envtl. Biol.
- Naseema Beevi S. Gokulapalan, C. Reghunath P and Visalakshi A 96. Dissipation of mancozeb residues in bitter gourd Mimordica charantia (L) fruits Pestic Res J 8 (2) 199-200

Popular articles

- ഗാളിച്ചയുടെ കുഴൽകെണ്റ് ഡോ. എ വിശാലാക്ഷി എസ് നസിമാബിവി, കർഷകശ്രീ പാർച്ച് 97് 1;
- Sustainable Agriculture and Environment by Dr. Thomas Varghese, Agrl. College Annual 97
- കുടുംബജീവിതം പരിശീലിക്കാൻ ... ശ്രീമതി രജനി, കനുക ജനുവരി 97 കുട്ടികളിലെ പോഷകാഹാരക്കുറവ് രജനി, കനുക ഫെബ്രുവരി 97
- ജൈവക്കുബിക്കാരു 'കർമ്മ പരിപാടിയ by Dr.' 'Thomas ' Varghese കല'പധേനു ജനുവരി —മാർച്ച' 97

College of Horticulture, Vellanikkara

Research papers

- Abraham CC and Jim Thomas 95. Mud slurry as a base and carrier of insecticides against the banana pseudostem weevil Odoiporus longicollis oliv. Insect Environment 1 (2): 14
- Abraham. CC Sudhakara, K and Ushakumàri R 95. Occurrence of Bruchidius bilianeatopygus (Bruchidae: Coleoptera) as a pest of pods and seeds of the multipurpose tree species Albizzia odoratissima (LF) A. procera (Roxb.) and paraserianthus falcatoria (L) Insect Environment 1 (1) 7-8
- Abraham CC and Baby P Skaria, 95. New record of the red borer Zeuzera coffeae Nietner (Cossidae: Lepidoptera) as a pest of all spice Pimenta dioica (Linn.) Merril. Insect Environment 1 (1):6
- Ajit C George and Thomas EK 96. Impact of minor irrigation on the economic conditions of the farmers in the Palakkad district of Kerala. Land Bank Journal 35 (2): 43-48
- Babylatha AK, Prasannakumari Amma, S and Pushkaran K, 96 A successful attempt on hybridisation among banana cultivars Hort. J. 9 (2): 87-94
- Beena Jacob and Mercy George 96. Nitrogen mineralization pattern of organic sources in transplanted rice Nat. Sem. on organic farming and sustainable Agriculture UAS, Bangalore October 9-11, p 120-121
- Charles JS, Rani TG, and Krishnan S 96. Management of banana nematode using cultural and chemical strategies. Pest Management in Horticultural ecosystems. 1: 19-22
- Geetha CK, Aravindakshan M and Wahid PA, 96. Comparison of nutrient response curves in bush pepper and vine pepper (Piper nigrum) Journal of Plantation Crops. 24 (2), 135-138
- Geetha CK, Rajeevan PK Valsalakumari PK and Leena CI, 97 Influence of growing media on the performance of Aglaonema 'Silver Queen'. Proceedings of the Nineth Kerala Science Congress. STEC. p 30-31
- Geetha CK, Rajeevan PK, Valsalakumari PK, and Hussain CTS. 95. Influence of corm size. depth of planting and division of corms on propagule production in Gladiolus. *J Trop. Agric* 33: 175-177

- George ST, Mathew KL and Rajeevan PK 97. Bread fruit -a promising rootstock for grafting bread fruit (Artocarpus altilis Park). Proceedings of the Nineth Kerala Science Congress. STEC. p. 177.
- Indira P, Peter KV, and Rajan S, 96. Genetic diversity in Capsicum. Indian J. Hort. 40(4)
- Jacob S, 95. Pest in stored tamarind. Spice India 8 (7): 9-10
- Jyothi, ML, Parameswaran NK and Rajeevan PK 97. Eroding gene pools of tropical fruits. Present position, the causes and possible remedial measures with special reference to indigenous mango germplasm of Kerala. International Conference on creativity and innovation of grass roots held during 11.1.97 to 13.1.97 at the Indian Institute of management, Ahmedabad.
- Jyothi P, Bindu and Sosamma Jacob 96. Reduced susceptibility in Amrasca biguttula biguttula (Ishida) infesting bittergourd to quinalphos. Insect Environment, 1 (4): 14.
 - Hussain CTS, Geetha CK, Rajeevan PK and Valsalakumari PK 94. Plant regeneration from root derived callus in Gladiolus J. Ornamental Hort. 2 (304): 46-52
 - Kesavachandran R, Asha John and Jayasree PL 96. Rapid multiplication of Holostemma annulare K Schum by in vitro, methods. National Symposium on Horticultural Biotechnology Bangalore, October 28-30,96
 - Kesavachandran R 96. Morphogenic potential of shoot buds in cashew (Anacardium occidentale L) Abstracts of the PLACROSYM XII held at Kottayam November 27-29, 96
 - Mathew KL, George ST and Rajeevan PK 97. Double grafting— A new viable method of propagation in Garcinia cambogia Desr. Proceedings of the Nineth Kerala Science Congress. STEC. P.181-182.
 - Mini B, Valsalakumari PK and Geetha CK 95. Effect of repeated subculturing on somacional variation in banana (Musa AAB group) cv. Journal of Tropical Agriculture Nendran 33: 125-127.
 - Mini B and Valsalakumari PK 97. Improvement of micropropagation efficiency in Nendran banana using eyebuds and sucker explants. Proceedings of the Nineth Kerala Science Congress STEC p 175.

- Nirmaladevi S, Sally K Mathew and Abdul Wahab M 95 Evaluation of brinjal for resistance to little leaf disease. South Indian Hort. 43 (3&4): 120-121.
- Nirmaladevi S, Abdul Wahab M and Sally K Mathew 95. Screening of chilli (Capsicum annum) as influenced by seed treatment with Azospirillum, South Indian Hort. 43 (1 & 2): 54-56.
- Prasannakumari Amma S, Sreekala C. Mallika VK, Vikraman Nair R and Nybe EV 96. In vitro induction of multiple plantlets from single zygotic embryo of coconut (Cocos nucifera (L.) Abstracts of the National Symposium on Horticultural Biotechnology, Bangalore, October 28-30, 96.
- Prabhakaran PV 96. A statistical model for assessing the losses due to pests, diseases and draught in black pepper. Abstracts of the PLACROSYM XII held at RRII, Kottayam, November, 27-29, 96.
- Prabhakaran PV 96. Growth and supply response of rice in Kerala—An economic analysis Abstracts of the National Symposium on Technological advancement in rice production, KAU, June 17-19.
- Prabhakaran PV and Rani John V 96. An alternative approach for the analysis of data of long term experiments. Journal of the Indian Society of Agricultural Statistics 48 (3): 339-346.
- Pushkaran K 96. Genetic improvement of banana through recurrent in vivo and in vitro mutagenesis. Internal Symp. on Banana, KAU.
- Pushkaran K 96. Musa ornata as a genetic source for stress breeding in edible. Musa Internat Symp. on banana, KAU.
- Pushkaran K 96. Varietal requirement of banana for the homesteads of Kerala. Nat. Conference on Banana, NRCB, Thiruchirappally.
- Pushkaran K 96. The art and science of Kazhchakula cultivation Nat. Sem. on banana, NRCB, Thiruchirapally.
- Rajeevan PK 97. An eco-compatible design for growing Dendrobiums in Kerala. National Seminar on Developmental Biology and commercialisation of orchids at Gangtok, Sikkim during 12 and 13 April, 97.
- Ranjith AM and Rao DS 96. Simple new killing bottle for entomologists. Entomon. 20 (3 & 4):277.
- Skaria, BP, Ushakumari, R and Thomas J 96. Psyllid, Arytaina punctipennis Crawford infestation on cultivated Indigofera tinctoria L. in Kerala Insect Environment 2(1):28.

- Seema P and Mukundau K 96 Impact of cement kiln dust on rural economy a case study. Indian J. Agric. Econ. 51 (3): 407-411.
- Seena, C and Prabhakaran PV 96. Alternative approaches for the reduction of error infield experimentation in cocoa—An empherical evaluation. Abstracts of the PLACROSYM XII, held at RRII, Kottayam, November 27-29, 96.
- Shailaja MR and Nair G3 98, Somaclonal variation in black pepper (Piper nigrum L) cultivars for phytophthora foot rot disease reaction. Abstracts of National Symposium on Horticultural Biotechnology; Bangalore, October 28-30, 96.
- Sudhadevi PK. Geetha CK, Rrjeevan PK and Valsalakumari PK 96. Performance of in vitro developed pineapple plantlets of cv. Kew. South Indian Hort. 43 (5&6): 166-167.
- Swapna S, Geetha CK, Rajeevan PK and Valsalakumari PK 97. Growth and quality of Philodendron 'Wendlandi' as influenced by fertilizer rate and source. Proceedings of the Nineth Kerala Science Congress STEC p. 145-146.
- Swapna M, Oommen A, Namboothiri KMN and Babu LC 95. Ideal plant type (ideotype) concept in horse gram (Dolighos biflor L. J. Tropical Agriculture 33:105-108.
- Unnithan VKG 96., Selection of samples when lots are submitted for inspection in the form of sublots. Economic quality control.
- Valsala PA and Nair GS 96. Structure of ginger fruit and seed produced under in vitro. Abstracts of the National Symposium on Horticultural Biotechnology, Bangalore, 28-30. 96.
- Valsala PA, Nair GS, Nybe EV Koshy Abraham and Maicykutty P Mathew 96. Optimum spacing for turmeric cultivation. Abstracts of the 'PLACROSYM XII held at RRII, Kottayam, November 27-29, 96.
- Valsalakumari PK, Geetha TK, Rajeevan PK and Geeta CK 97.
 Anatomical investigations on the differential performance of polyembryonic rootstocks in mango. Proceedings of the Nineth Kerala Science Congress. STEC: p. 184-185.
- Vandana Venugopal, Balachandran, PV and Kamalam NV 96. Seasonal influence on root activity of scoonut palms. National Symposium held at Hissarvfrom 10-13. December 96.

- Popular articles
- Geetha CK, 97. വീട്ടിനുള്ളിൽ ഒരുദ്യാനം. കേരള കർഷ്കൻ. വിഷു പ്പതിപ്പ് 42 (13): 23-25.
- Indira P 97. Paprika Erivu kuranja mulaku Deepika dt. 4.2.97.
- Indira P, 97. വിട്ടുവളപ്പിലേക്ക് യോജിച്ച പച്ചുളകിനങ്ങ≎. Spice India 10 (1): 4-6.
- Indira P, and Peter, KV 97. കാന്താരിയും മററു മുളകിനങ്ങളും. ' Mathrubhumi-Karshika Varshika Pathippu 34-39.
- Prabhakaran PV, 97. കേരളത്തിലെ കാർഷിക വികസനത്തിനെറ ബാക്കി പത്രം. ശാസ്ത്രഗതി. Feb.
- Prabhakaran, PV 97 അഭിപോയവോട്ടെടുപ്പ് പരാജയപ്പെടുന്നതെന്നു കൊണ്ട്?. ശാസ്ത്രഗതി Jan.
- Prabhakaran, PV 97. ശാസ്ത്രജാലകം. ശാസ്ത്രഗതി, മേയ്
- Prabhakaran PV, 97, ശാസ്ത്രജാലകം. ശാസ്ത്രഗ്തി ജൂൺ
- Rajan S and Indira P, 97. കൃഷിയിടമില്ലാതെയും കായ്കനികരം വിളയിക്കാം. In Pushpotsav 97 published by Agri-Horti Society, Trichur.
- Rajan S, and Prasanna KP. 97. ജൈവകൃഷി പച്ചക്കാികളിൽ. In Pushpotsav 97 published by Agri-Horti. Society, Trichur.
- Rajeevan PK, 97. ആംസ്റാർഡാം എന്ന സ്വപ്നം. കേരള കർഷകൻ. വിബുപ്പതിപ്പ്. 42 (13): 6–9
- Valsalakumari PK, 97. പുമ്പ്പകൃഷി സാധ്യതകാ _ കേരളത്തിൽ കേരള കർഷകൻ, വിഷുപ്പതിപ്പ് 42 (13); 30-32.

Technical Bulletins

- Thajudeen E, Prasannakumari KT, and Anilkumar AS 96. Medicinal plants. KAU.
- Thajudeen E, Anilkumar AS, and Prasannakumari KT 96. ഔഷധപ്പെടിക∞ KAU.

Radio talks/Doordarsan programme

- Dr Laila Mathew, K-Ornamental foliage plants on 21.8.96.
- Dr Laila Mathew, K-Production of rooted cuttings of ornamental plants and fruit plants on 3.2.97.
- Dr Sara T George-Anthurium cultivation on 23.8.96.
- Dr Koshy Abraham Button shedding in coconut.
- Dr MV Rajendran Pillai-Yellow leaf disease of arecanu

Dr TN Vilasini-Bud rot of coconut.

Dr Augustin, A-Cashew apple processing.

Norma Xavier-Importance of locally available fruits on 13.9.96.

Dr Sujatha, VS-Planting and early care of pepper on 7.7.96.

Dr Salikutty Joseph - Pest control in vegetables on 22.7.96.

Dr KV Suresh Babu-Planning of kitchen garden on 1.7.96.

Dr KV Suresh Babu-Cultivation of Amaranth in Jan. 97.

Baby Lissy Markose - New pulse varieties on 9.8.96.

Baby Lissy Markose—New Bhindi varieties and their cultivation on 4.2.97.

Ushakumari, R—Pest management in vegetables.

Sheela, KB-Preparation of jams in Jan. 97.

PB Pushpalatha - Cashew apple processing in Jan. 97.

Dr Sukumara Varma, A-Mushroom cultivation in Jan. 97.

Dr Sukumara Varma, A-Stem bleeding of coconut and its management in March 97.

Dr Sally K Mathew-Disease management in vegetables in March 97.

Norma Xavier-Weaning food for children on 27.2.97

Dr Valsalakumari, PK-Cultural practices for Banana cultivation on 22.1.97 and 30.1.97.

Dr Valsalakumari PK, Tomato cultivation on 24.3.97.

Regional Agricultural Research Station, Vellayani

Research papers

Abraham A, Naseema Beevi S, and Mathew TB 96. Persistence of carbofuran in cucumber. Proceedings of the VIII Kerala Science Congress, Kochi, 27-29 Jan. 93, p. 222.

Abraham Jacob and Devanesan, S 96. Introduction and establishment of Italian beés in Kerala. In proc. of National Beekeeping Experience Exchange Conference held at Punjab Agricultural University, Ludhiana pp. 1-3.

Achuthan Nair, M, Joice Abraham, Jacob John and Sanjeev, V. 97.
Biomass production and nutrient cycling for sustainability in
Agroforestry. Paper presented at the National Seminar on
Organic and Sustainable Agriculture held at UAS Bangalore.

Achuthan Nair, M., Jacob John, Sanjeev, V and Joice Abraham 97.

Evaluation of the structure and function of agroforestry home gardens in Thiruvananthapuram district. Paper presented in the Nineth Kerala Science Congress held at Thiruvananthapuram from 27 to 29 January 97.

- Anitha N, Rajamony L, and Pillai SJ, 1996. Source of resistance in banana against rhizome weevil and nematodes. Paper presented in the Symposium on Technological advancement in Banana/Plantain production and processing. India-International. 20-24, August, 96.
- Gopimony R, Thomas Varghese, Kamalam N and Balakrishnan Asan, R 96. Early impact of organic farming on crop productivity. Proceedings of the Eighth Kerala Science Congress, 27 29 January, 96, Kochi, pp 35-36.
- Manjuchandran, Rajamony L, Mohanakumaran N and Rajmohan K, 96. Embryos of interspecific crosses of Abelmoschus rescued in-vitro. Paper presented in the 2nd International Crop Science Congress, Nov. 17-24, 96, New Delhi, India.
- Manjuchandran and Rajamony L 97. Interspecific cross compatibility in Abelinoschus. Proceedings of the 9th Kerala Science Congress, January 27-29, 97, Thiruvananthapuram.
- Manju P, Gopimony R, Nampoothiri, K. U. K. and Saraswathy P, 95. Seedling progeny analysis in coconut. *Journal of Tropical Agriculture* 33 (2): 109-112.
- Manju P, and Sunny K, Oommen, 95. Malika, an improved variety of vegetable cowpea. Journal of Tropical Agriculture 33 (2): 120-124.
- Manju P, and Sunny K, Oommen, 95. Kangangad—A sweet potato variety for uplands. *Journal of Tropical Agriculture*, 33 (2): 128-131.
- Nalinakumari T and A Naseema 96. Assessment of the role of pests and diseases in producing chaffiness in rice. National Symposium on Technological Advancement in rice production, 17-19 June, 96. Kerala Agricultural University, Vellanikkara, p. 163.
- Naseema Beevi S, Gokulapalan C, Reghunath P, and Visalakshi A, 96. Dissipation of mancozeb residues in bittergourd Momordica charantia (L) fruits. Pestic. Res. J 8 (2): 199-200.
- Naseema Beevi S, snd A Visalakshi 96. Metabolism and persistence of phorate in rice plants. Ibid.
- Rajamony L 96. Identification of source of resistance to cucumber green mottle mosaic virus in melon (cucumis spp.) 8th Kerala Science Congress, Kochi.
- Rajamony L, 97. Post inoculation time and symptom expression of cucumber green mottle mosaic virus in melon (Cucumis spp.). Proceedings of the 9th Kerala Science Congress January, 27-29, 97, Thiruvananthapuram.

- Rajamony L., Anitha N., and Pillai SJ, 96. Clonal selection in banana for stability and adaptation. Paper presented in the 2nd International Crop Science Congress, Nov. 17-24 96, New Delhi, India.
- Rajamony L, Anitha N, and Rema Menon, 98. Identifying diploid bananas for increased yield and adaptability. Paper presented in the Symposium on Technological advancement in banana/plantain production and processing—India International. 20-24 Aug. 96. Vellanikkara.
- Rajamony L, Jessykutty PC, and Mohanakumaran N, 93. Resistance to yellow vein mosaic virus of bhindi in Kerala. Veg-Sci. 22 (2): 116-119.
- Rajamony L, Nair C. S. J. and Pillai SJ, 96. Variability for yield and quality in Plantain (Musa (AAB) 'French plantain' clones of South India. Paper presented in the Symposium on Technological advancement in banana/plantain production and processing—India—International. 20-24, August, 96, Vellanikkara.
- Rajamony L, Menon R, and George KC, Screening banana clones of AAA group for yield and quality... Paper presented in the symposium on Technological advancement in banana/plantain production and processing—India—International. 20-24, August, 96.
- Rajamony L, Seshadri VS, More TA, and Varma A, 96. Breeding for virus (CGMMV) resistance in muskmelon using semi-desert genotypes. Paper presented in the 2nd International Crop Science Congress, Nov. 17-24, 96, New Delhi, India.
- Sheela KR, Girija devi L, and Raghavan Pillai G, 96. Grasses for soil conservation. Kissan World: 23 (12): 60.
- Sheela MS, Hebsy Bai Anitha N, and Kuriyan KJ, 96. Nemic association and management of nematodes infesting rice in Kerala. Paper presented in the National Symposium on Technology Advancement in rice production, 17-6-96, Thrissur, Kerala.
- Sheela MS and TS Venkitesan, 96. Effect of pesticides on the nematode pathogenic bacteria, Bacillus Maceras. J Biol. Control, 8: 102-104.

1.1

Popular Articles

'Italiyan theneechayude paripalanam' a Malayalam article of Sri. S Devanesan, Asst. Professor (Entomology) published in Kalpadhenu, February, 1997.

nadio proadcast and Doordarshan programmes

- Devanesan S, Asst. Professor (Entomology) participated in a AIR programme in Karshakavedi broadcasted on 9.6.96.
- Dr Manju P Associate Professor (NC) delivered a radio talk on "Second dose of fertilizer application in coconut" broadcast through the AIR on 21.10.96.
- Dr Naseema Beevi S, Assoc. Professor (Entomology) participated in the Question and Answer Programme in Karshakavedi which was broadcasted through the AIR on 24.11.96.
- Devanesan S, Asst. Professor (Entomology) delivered a radio talk regarding the management practices of Italian Honey bees.
- Dr Thomas Biju Mathew, Asst. Professor (Entomology) participated in the AIR Question and Answer Programme in Karshakavedi on 14.1.97.
- Dr Nalinakumari T, Assoc. Professor (Entomology) delivered a radio talk on "Integrated Pest Management in rice" in a Karshakamela at Thathamangalam, Palakkad on 22.3.97 in AIR, Thrissur.

Regional Agricultural Research Station, Kumarakom

- Nair, KPV, 1996. 'Avoidable loss to rice crop due to infestation by major pests of rice in Kuttanad'. Paper presented at the International Seminar on rainfed rice at CRRI, Cuttack from 21-25 September, 96.
- Padmakumar, KG, 96. 'Aquaculture and farming system approach relevant for Kuttanad', paper presented at the seminar on Integrated fish farming in Upper and North Kuttanad organised by FFDA, Kottayam.
- Padmakumar, KG, Anuradha Krishnan, Sulochana, S and Nair MK, 96. 'Pathobiology and Chemotherapeutic investigations on epizootic ulcerative syndrome in fishes' Paper presented at the Fourth Indian Fisheries Forum held at Cochin 24-28 November, 96.

Rice Research Station, Moncompu

- Devi, AD, Kumari, PRK and Joseph, D 96. Impact of IPM on rice farming in Kuttanad. Presented in the National Symposium on Technology Advancement in Rice Production at COH, Vellanikkara from 17-19 June, 96.
- John, PS, Mathew, R, Syriac, EK and Ittyaverah, PJ 96. Long term effect of fertiliser application on rice yield and soil fertility in Kuttanad. Ibid.

- Devika, R. Bai, NR, Kumari, LS and Regina, A 96. MO 12-A blast resistant variety of rice for Kuttanad. lbid.
- Mathew, R and John, PS 96. Cyhalofop butyl-I new post emergent against Echinocloa sp. Ibid.
- Bai, NR, Devika, R and Regeena, A 96. A promising dwarf rice mutant induced through gamma radiation. IRRN.21 (1) 14.

Rice Research Station, Vyttila

Popular articles

- Sasidharan, NK and Chandrasekharan Nair K Mannininangia Pokkalikrishi-Karshakasree 1 (9) pp 25-27
- Rajendran, CC and Sasidharan NK 96. Nellum Meenum Pokkalippadangalil—Karshakan 4:3.
- Thamban C and Sasidharan NK 96. Pokkali Nelkrishi-Jaiva krishi Sambradayathinte oru savishesha mathruka. Kerala Karshakan 41 (18) pp 6-9

Radio talk

Sasidharan, NK, Biodiversity of Pokkali ecosystem-AIR, Kochi. Chandrasekharan Nair, K Prospects of Organic farming-AIR, Kochi.

AICRP on Agricultural drainage, Karumady

Hajilal, MS; Rao, NH, and Sarma PBS 97. Real Time Water Management in Storage Based Irrigation Systems Technical Bulletin No. 256. Central Board of Irrigation and Power, New Delhi, pp. 370

Regional - Agricultural Research Station, Pattambi

Research Papers

- Leenakumari, S, Rosamma, CA and Nayar, NK 96. "Sustainable Rice production through high yielding 'photosensitive varieties". Paper presented in the National Symposium on Technological advancement in rice production at KAU from 17-19 June, 96.
- Leenakumari, S, Valarmathi, G and Nayar NK 96. Hybrid rice for increased rice production in Kerala. Paper presented in the National symposium on Technological advancement in rice production at KAU from 17-19 June, 96.

- Devika, R., Remabai, N., Leenakumari, S. and Ahmed Regina, 96. MO. 12, a blast resistant variety of rice. Paper presented in the National Symposium on Technological advancement in rice production at KAU from 17-19 June, 96.
- Kanakamany, M, Leenakumari, S and Nayar, NK 96. Correlation and yield component analysis of some Basmathi rice cultures. Paper presented in the National Symposium on Technological advancement in rice production at KAU from 17-19 June, 96.
- Valarmathi, G Leenakumari, S Nadarajan, L and Nayar NK 96. Combination breeding promises better scope for selection of high yielding stable strains for rainfed uplands. Paper presented in the National symposium on Technological Advancement in rice technology 17-19 June 1996 KAU, Vellanikkara Abstract 7. p 7.
- Tessy Joseph, Leena Kumari S and Nadarajan, L 96. Genetic improvement of tall indica rice varieties through inter mutant hybridisation. Paper presented in the National symposium on Technological Advancement in rice technology 17-19 June 1936 KAU, Vellanikkara. Abstract No 46. p 48.
- Leenakumari S, Valarmathi G and Nayar NK 96. Rate of grain filling—a better selection criteria for improved rice genotypes. Presented in the International Symposium on "Rainfed Rice for Sustainable Food Security" to be held at CRRI, Cuttack during 23-25 September, 96. Abstract No. 32.
- Nayar, NK Leenakumari S and Valarmathi G 96. Strategies for rice breeding in Kerala towards 21st century. Presented in the International Symposium on "Rainfed Rice for Sustainable Food Security" to be held at CRRI, Cuttack during 23-25 September, 96.
- Leenakumari S and Mahadevappa M 96. Genetic, histological and histochemical evidences for reversion to partial fertility in the WA CMS line IR 54732 A Paper presented in the International Conference on hybrid rice held from 14-17th Nov. 96 at Hyderabad.
- Leena Kumari S., Mahadevappa M and Kulkarni RS 96. Fertility restoration studies in four WA CM3 lines of rice (Oryza sativa, L) Paper presented in the International Conference on Hybrid rice held from 14-17th Nov. 1996 at Hyderabad.

- Leena Kumari S and Nayar NK 97. Conservation and utilization of traditional rice varieties in Kerala. Paper presented in the International conference on Creativity and Innovation at Grassroots, January 11-14, 1997.
- Nadarajan, L 96, Changing status of rice pests in Kerala Paper presented in the National symposium on Technological Advancement in rice technology, 17-19 June 96. KAU, Vellanikkara, Abstract No 149. P 162.
- Elsy, CR, Nadarajan, L and Nair NX 98 Kerala a rich niche for resistance in rice. Paper presented in the International on Rainfed rice for sustainable food security CRRI, Cuttack Sept 23-25 page 96, 105
- Nadarajan, L Thomas J and Samuel Mathew 95. Oils against Rice leaf folder. Insect Environment 2 (3): 99-100
- Jyothi, ML, Parameswaran, NK and Rajeevan, PK 97. Eroding gene pools of tropical fruit crops—Present position, the cause and possible remedial measures with reference to indigenous mango germplasm of Kerala. Presented in the International Conference on Creativity and Innovation at Grassroots for Sustainable Natural Resource Management conducted at the Indian Institute of Management, Ahmedabad during the period from 10th-15th January, 97.
- Jyothi ML, Mini Raj, N. George TE and Nayar NK 97. River bed cultivation in Kerala. Presented in the International Conference on Creativity and Innovation at Grassroots for Sustainable Natural Resource Management conducted at Indan Institute of Management, Ahmedabad during the period from 10th-15th January 97.
- Rehumath Niza TJ, Dev, VPS, Premanathan, T and Mary CA 96, Non fungitoxic seed protectants control seedling blast of rice. Proceedings of the National Symposium of technological advancement in rice production. 17-19 June 96, Kerala Agricultural University, Vellanikkara.
- Sukumara Dev VP, and Rehumath Niza TJ 96. Cropping system and disease sequence of Rice in Kerala. Proceedings of the National Symposium on technological advancement in Rice production 17-19th June 96. Kerala Agricultural University, Vellanikkara p. 187.
- Jose Mathew and Jagadeeshkumar TN 96. Weed management strategies for dry seeded lowland rice. National Sympossium on Technological Advancement in rice production. 17-19 June 96, Vellanikkara.

- Reena Mathew, Varghese, K Jose Mathew Thampatti, M and GR Pillai 96. Rice based cropping pattern suited to areas of limited irrigation water availability, National Symposium on Technological Advancements in rice production 17-19 June, Vellanikkara.
- Reena Mathew, Jose Mathew, Manorama KC Santhakumari G and Sreekumar V 96. Potential production and economic analysis of a rice based cropping pattern in sandy loam rice soils. National Symposium on Technological Advancements in rice production. 17-19, June 96 Vellanikkara.
- Leenakumari Sand Tessy Joseph. Virippil vithakkan. Mathrubhumi daily 21st May, 96.
- Leena Kummari S 96 'Vilavardhanavil Kattuvargangalute Panku, Kalpadhenu 23 (4) 19-22.
- Kanakamany, MT and Leena Kumary S "Nanavarinju Vilavirakku" Karshakan, Jan, 97.
- Leena Kumary S 97 'Nelvithulpadanathinte Sasthriya Vasangal, Kerala Karshakan 25th May 97.
- George TE 96. Panam Tharunna Mulkinangal (Mal.) Karshakan 4 (iv) 19-20
- Deepti NV and George TE 96. Shadabhishikthanaya Bordo Mishritham (Mal.) Kerala Karshakan, 41 (16): 8-9
- Deepti, NV George TE and Sudheer Babu MA 96. Maavu Kaaykan (Mal.) Kerala Karshakan, 41 (17) 1-9
- George TE 96 Vazha Krishi Labhakaramakkan (Mal.) Karshakan 4 (6) 34-37
- George TE 96 Nattarivukal (Mal.) Karshakasree 1 (12) 27, 38
- George TE 96 Pachakkari krishikku venam shasthriya sameepanam (Mal.) Karashakan 4 (10) 44-46
- Jose Mathew 96. Kalanasiniprayogam podivithayil (Malayalam) Kerala Karshakan 41 (14) 3-8, April 25, 96.
- Jose Mathew 96. Nellinunalkam pachilavalam. Karshakan 4 (3) 63, May 96.
- Jose Mathew and Jagadeeshkumar, TN 96. Protecting rice seedlings from herbicide injury. The Hindu (Daily) 12 Dec. 96.
- Jose Mathew 96, Nellarakalude prathisanthikku pariharamundu. Karshakan 4 (8) 36-41, October, 96.

Books

- Nayar, NK and George TE 96. Technological Advancements in Banana/Plantain Production and Processing—India—International; Abstracts of Papers. Directorate of Extension, Kerala Agricultural University, Mannuthy. Trichur, Kerala, India, P.55.
- Nadarajan, L Elsy CR and Nair NK 96, Kerala rice as Intenational donors for stress resistance, Published by KAU 40p. The above book was released by the Hon'ble Vice-Chancellor on 19th June 96, in the valedictory function of National Symposium on Technological Advancement in rice technology held between 17-19th June 96.
- Leena Kumary, Sand Nayar NK 96. "Rice varieties of Kerala" Published by KAU. The above book was released by the Hon'ble Vice-Chancellor on 19th June 96 in the valedictory function of National symposium on Technological Advancement in rice technology held between 17-19th June 96.
- Nadarajan L Nair RR and Nayar NK 96. Technological Advancements in Rice technology; Abstracts of Papers. Directorate of Extension, Kerala Agricultural University, Mannuthy Trichur, Kerala, India.

Radio talks

- Leena Kumari S. Puncha krishiku yojicha nelvithinangal, Broadcasted on 5.12.96 from AIR, Trichur.
- Leena Kumari S, Growing world population and role of modern agriculture in fulfilling the need for food. Broadcasted on 21.3.97 from AIR, Calicut.
- Kanakamony MT, Technological advances in horticulture, Broadcasted on 17.3.97 from AIR, Calicut.
- Dr. George TE Vegetable cultivation in river beds on 21.11.96 through AIR, Thrissur
- Jyothi, ML Environment problems and Agriculture in river beds on 6.12.96 through AIR, Kozhikode.
- Agronomic Research Station, Chalakudy

Research Papers ...

- Jayakrishnakumar, V and Abdul Hakkim VM '95.

 Water management and water use in rice fields. Kalpadhenu: 23 (1).
- Abdul Hakkim, VM and Jayakrishnakumar V 95. Drip Irrigation— Advantages and adaptability. Kalpadhenu: 23 (2).

- Abdul Hakkim VM. Jayakrishnakumar V and Sajeena S 96. Watershed Management—A quide line. Kalpadhenu 23 (3).
- Jayakrishnakumar V, Abdul Hakkim VM and Sajeena S. 96. Cropping pattern in paddy fields. Kalpadhenu 23 (4).
- Sajeena S and Abdul Hakkim VM 96. Selection of tractor and Agricultural Machinery. Kalpadhenu: 24 (1).
- Abdul Hakkim VM and Sajeena S 96. Kole lands and protection possibilities. Kalpadenu: 24 (2).
- Sajeena S and Abdul Hakkim VM 96. Scientific approaches of soil conservation. Kalpadhenu: 24.(3).

Aromatic & Medicinal Research Station, Odakkali.

Research Papers

- Baby P Skaria, Ushakumari R and Thomas J 96. Psyllid, Arytaina punctipennis infestation on cultivated Indigofera tinctora in Kerala—A new record. Insect Environment 2 (1): 28.
- Natarajan L, Thomas J and Samuel Mathew 96. Insecticidal property of essential oils against rice leaf folder. Insect Environment (2): 26-7.

Banana Research Station, Kannara

- Rema Menon 96. Comparative evaluation of some banana clones. Abstracts of papers presented at the Symposium on Technological Advancement in Banana/Plantain Production and processing-India-International, sponsored by ICAR, KAU and Bagain and convened at KAU Headquarters, Vellanikkara from 20.8.96 to 24.8.96.
- Rema Menon and Premalatha, T 96. Observations on a mutant in Banana Musa (AB) 'Padalimoongil'—Abstracts of papers presented at the Symposium on 'Technological Advancement in Banana/Plantain Production and Processing-India-International'.
- Charles, JSK, Thomas, MJ, Rema Menon, Premalatha, T and Pillai SJ 96. 'Field susceptibility of banana to pseudostem borer—Odoiporus longicollis oliver. Abstracts of papers presented at the Symposium on Technological Advancement in Banana/Plantain Production and Processing-India-International.

- Premalatha, T, Rema Menon, Pillai, SJ 96. Effect of planting densities on growth and yield in banana var. Palayankodan Musa (AAB). Abstracts of papers presented at the conference on 'Challenges of banana production and utilization in 21st century' organised by Association for banana production and utilization (AIPUB) from 24.9.96 to 25.9.96. P. 32.
- Rema Menon and Premalatha, T 96. Collection, conservation and evaluation of banana germplasm. Abstracts of papers presented at the conference on 'Challenges for banana production and utilization in 21st century' organised by AIPUB. P. 16.
- Uma, S, Rema Menon and Singh, HP 96. Search for alternative cultivars for banana chips. Abstracts of research papers, presented at the conference on 'Challanges for banana production and utilization in 21st century' organised by AIPUB P. 71.
- Charles, JSK, Reghunath, BR, Krishnan, S and Sakuntala Nair, 96.
 Control of banana rhizome weevil Cosmopolites sordidus
 Germer by soil application of insecticides. Abstracts of
 research papers presented at the Conference on
 'Challenges for banana production and utilization in 21st
 century' organised by AIPUB P. 55.
- Sreeja, P. Charles, JSK, Venkitesan, TS, Krishnan, S and Ushakumari, R 96. Screening botanicals for Antihelminthic properties against burrowing nematode, Radopholus similis. Abstracts of research papers presented at the Conference on 'Challenges for banana production and utilization in 21st century' organised by AIPUB. P. 55.

Cashew Research Station, Madakkathara

Book

'Kanakam Koyyan Kusumavu' Edited (technical) by Dr. M Abdu Salam and Published by Directorate of Cashewnut Development, Cochin.

Research Papers

- Mini Abraham and Abdul Salam, M 94. Absorption patterns of "C urea by cashew. Cashew Bulletin 38 (5) pp: 7-9.
- Abdul Salam, M. and Mohanakumaran, N. 96. Towards a more sustainable cashew industry in India. Cashew Bulletin XXXIII (6) June 96 pp. 3-11.

- Mohanakumaran, N and Abdul Salam, M 96. Thirty years of cashew research in Kerala. Sent to the Seminar on Cashew in 2000 AD' proposed to be conducted by Directorate of Cashewnut Development at Bhuvaneswar (28-29-October 96).
- Abdul Sa'am, M. Mohanakumaran, N and Latha, A. 96. 'Cashew, (article on Cashew) Sent to the World Wide Fund-India. Kerala State.
- Abdul Salam, M 96. 'Cashew Plantation—Establishment and Management' Paper presented in the National Seminar on Development of Cashew in India at Bhuvaneswar conducted from 14 and 15th December 96.
- Abdul Salam, M. 96. 'Cashews Tree-A Nitrogen Lover' Sent to the Journal Cashew Bulletin.
- Abdul Salam, M 97. Cashew Varieties and Package of Practices for Kerala sent to the 'Mangalore Cashew Growers Association' for publication in their Journal.

Popular articles -

Abdul Salam, M 96. Traditional Rubber Planters Turn to Cashew. The Cashew 10 (2) pp: 3-4.

Regional Agrl. Research Station, Pilicode

Paper published

- Prasada Rao GSLHV and Subash N. Use of CERES—Rice Model to assess potential yield. IRRN, Vol. 21, Numbers 2 Aug-Dec. 96, pp 87.
- Subash N. Gopakumar, CS and Prasada Rao, GSLHV Drought and plantation crops. Swadeshi Science 7 (1) Jan-Feb. 97 pp. 37
- Prasada Rao, GSLHV, Govindan M, Latha PC and Subash N Monsoon gale inflicted damage on coconut gardens in Kerala Indian Coco. J. (Communicated)
- Subash N, and Prasada Rao, GSLHV Rainfall quantity and distribution in Kerala Karshakan Annual 96. pp. 113-114
- Ramachandran U, Latha Bastine C, Suman Joseph and Prasad Rao, GSLHV Coconut oil [consumption—A study in the villages of northern Kerala. Indian Coco. J. 97. March pp-24.

Regional Agrl. Research Station, Ambalavayal

Popular articles.

Promising scented rice variety—Smt. Susamma George P and Dr Aipe KC—The Hindu 9.1.97

- 11-

- Veettumuttathoru Oushadha Sasyam Mathalam Smtil Susamma George P – Deepika 5 February 18, 97
- Kelappaji College of Agrl. Engg. & Technology, Tavanur

 Popular articles
- Ganesan V 96. New technology for production of coconut milk powder—Mathrubhumi Daily.
- Javan PR, and Prince MV, Selective mechanization in Agriculture
 —Karshakasree
- Jayan, PR snd Jobi Bastin. Necessity of Paddy Harvesters—Kalpadhenu
- Jayan PR, and Rajeev M; Selection of Tractors—Kissan world
- Rema KP, Cablegation, a new innovation in surface irrigation technology—Proceedings of 6th Swadeshi science Congress
- Visalakshi KP and Rema, KP Surface irrigation Kalpadhenu
- Suseela P, Non-conventional energy—Need for the Development of the Country - Kerala Karshakan
- Suseela P, Laboratory Instruction Manual of Fluid Mechanics.
- Cardamom Research Station, Pampadumpara
- വാഴയിലെ നിമാവിര ആക്രമണവും നിയന്ത്രണ മാർഗ്ഗങ്ങളും Kalpadhenu 95 2 (1): 36-37 Published in May 96
- Studies on the comparative penetration and development of root knot nematode Meloidogyne incognita on susceptible. Pusa ruby, and resistant mangala cultivars of Tomato. Arthur Jacob, J and M Haque 95 (published in June 96 Indian J. Nematol. 25 (1): 29
- A book on Cardamom was released by the Honourable Minister for Agriculture, Govt. of Kerala, on 18.8.96. The authors, Dr Arthur Jacob J, Dr Girija, VK, Miss Ancy Joseph and Dr Thomas MJ.

KVK Pattambi 📑

Research Papers

- Dr Ahamed P. Associate: Professor, MR Remesan KK, Assistant Professor 96. Farmers characterization of preferred rice cultivars—A group participatory analysis. Paper published in the proceedings of the IXth Kerala Science Congress, STCC, Thiruvananthapuram
- Dr Ahamed P, Associate Professor, Oru Vazhapattu (A song about plantain) Karshakan monthly, September, 96

'Radio Talks 🕝

Papaya—a cheap and nutritious food by Smt. Asha sankar'

Diseases of fishes, utilisation of Cashew, Apple, 'composit fish culture, Recipies using fish, food and management of fish ponds by Dr Narayanan GS,

Safe handling of modern kitchen aids by Dr Syamakumari S. Making of Arecanut garden (An interview) by Sri KK Remesan, Water melon cultivation by Smt Jyothi Bhaskar.

KVK: Ambalavayal .

Popular articles

Quick wilt disease of pepper Dr K Abdul Kareem, Madhyamam Daily

Care and management of cross bred cows Dr. A. Radhamma Pillai, Karshakan July 96

Cultivation of clove Dr K Abdul Kareem, Karshakan, May, 96 Grant granedillum. Dr K Abdul Kareem, Karshakan, May 96 All spice Dr K Abdul Kareem, Karshakan, June 96

Kerala Horticultural Development Project. Vellanikkara

Research Papers

Babylatha AK, Patel BM and Shah RR 1996. In vitro culture culture establishment and shoot proliferation in papaya (Carica papaya L.) Abstracts of the National Symposium on Horticultural Biotechnology 28-30 October 96.

Babylatha AK, Prasannakumari Amma S, Pushkaran K and Nalini PV 96. A successful attempt on hybridization among bahana cultivars. The Horti. J. 9 (2) 87-94.

Balakrishnan S, Gokulapalan C'and Paul S (96). A wide spread banana malady in Kerala. India informusa 5(1): 28-29.

Devadas VS, Kuriakose KJ. Rani TG, Gopalakrishnan TR and Nair SR 97. Pattern of fruit and seed development in vegetable cowpea. Abstracts of national Seminar — Plant physiology for substainable agriculture—IARI, New Delhi 19-21 March, 97 11-13.

Gopalakrishnan TR, Varghese CA, Giridharan MP and Devadas VS 96. Evaluation of cabbage varieties for the high range zone of Kerala. J. Tropical Agrl.

Latha P and Gopalakrishnan TR 95; Seasonal variation in the white fly population and its influence on the yellow vein mosaic and productivity in pumpkin (Cucurbita moschata Poir) J. Tropical Agri. 33(2) 144-146.

- Latha P and Gopalakrishnan TR. 95. Seasonal variation in white fly population and its influence in the yellow vein mosaic and productivity in pumpkin (Cucurbita moschata Poir J. Tropical Res. 33:144-146.
- Latha P and Gopalakrishnan TR. Improvement of CM 214-A mosaic resistant pumpkin variety. South Indian Horticulture.
- Mathew MP and Ramakrishnan U 96. Typhlocybines of Kerala. India (Cicadellidae: Homoptera) Tribe Dikraneurini. Shashpa 4(1):1-3.
- Mathew MP 96. Typhlocybine leaf hopper on bittergourd. J. Tropical Agri. 34.
- Mathew MP, Thomas J Paul ST, Sivaraman S, Nair SR and Ibrahim KK 96. Chemical control of pseudostem borer of banana. Odoi porus longicollis Oliver. Proc. International Symposium on technological advancement in banana/plantain—Production and processing—India—International 20-24 August 96.
- Nandini K, and Radhakrishnan R 97. Biochemical and yield responses of Cotton to foliar spray of antitranspirants and growth regulator under water deficit situations. Abstracts of National (Seminar-Plant physiology for sustainable agriculture-IARI, New Delhi 19-21 March 97, p. 119.
- Nazeema Beevi C, Gokulapalan P, Reghunath and Visalakshy A. 96. Dissipation of Mancozeb residues in bittergourd (Momordica charantia L.) Pesticide Res. J. 8 (2) 199-200.
- Reghunath P and Gokulapalan C 96. Management of American Serpentine Leaf Minor (Liriomyza trifolia), Pea Aphid (Aphis craccivora) and Cowpea Mosaic. Proc. Acad. Environ Biol 5(2), 207-208.
- Radha T and KL Chadha 96. Growth parameters in Kew pineapple as influenced by plant densities and nitrogen. *Indian J. Hort.* 53 (2) 101-108.
- Radha T and Chadha KL 97. Dry matter production as influenced by plant density and applied nitrogen. The Hort. J. 10 (1) 15-21.
- Radha T and Aravindakshan M 96. Flowering in Kew pineapple as influenced by shading. South Indian Hort. 44(1 & 2). 42-43.
- Suresh Babu V Gopalakrishnan TR and Peter KV. Variability and divergence studies in Pumpkin. J. Tropic Agrl.

Popular Articles

- Virus disease in vegetables (Malayalam) 'Mathrubhumi' Daily dated 14-5.96.
- Scope of Horticulture development in Kerala (Malayalam)
 Mathrubhumi Annual Agriculture Edition 96, P. 96-101.
- Disease Resistant Arka Anamika (Malayalam) Karshakan, 96 September p. 28.
- Cool season vegetables in hilltops (Karshakashri) 96, September p. 18-21.
- Vegetable cultivation in sacks (Malayalam) Mathrubhumi Daily dated 29.10.96.

Radio programmes

- Dr T Radha. Planning and management of kitchen garden AIR Trichur on 9.12.96
- Dr TR Gopala krishnan Vegetables for Onam from homesteads AIR Trichur on 27.6.96
- Dr TR Gopalakrishnan Commercial vegetable cultivation AIR Trichur on 24.10.96
- Dr TR Gopalakrishnan Vegetable varieties suited to Chittoor area and their cultivation. AIR Trichur on 22.3.97
- Dr K Aravindakshan, Biotechnology in banana, AIR Calicut on 11.1.97
- Dr K Aravindakshan, Biotechnology in banana, AIR Calicut on 19.1.97
- Dr K Aravindakshan, Cultivation aspect of tissue culture banana, AIR Calicut on 24.3.97
- Prof. P Raghunath Plant protection of different crops AIR Trivandrum on 12.8.96

College of Veterinary and Animal Sciences, Mannuthy

Research Papers

- Jayavardhanan, KK, Padekala J and Panikkai, KR "Lectin biosynthesis in callus culture established from seeds of conavalia verosa". Biologic Plantarim 38 (3) 329-334 96
- Jayavardhanan, KK Expression of different lectin receptors in carcinomas of oral cavity and uterine cervix Ann. conf. of Clin. biochemist XXIII 96
- Jayavardhanan, KK and Panikkai, KR "Isolation and characterisation of a lectin from Moringa oliofera" Ann. conf. of Clin Biochemist XXIII 96

- Suresh, K, Jayavardhanan, KK and Vasudevan, DM Effect of 5-Fluorouracil treatment on IL-2R gene expression in gastric carcinoma patients. Oncology Reports 3: 96
- Harshan, KR, Ashok, N and George, 'PO Gross observations on the spleen and tongue of a lion (panthera leo). Zoo sprint (1996) XI 18-20
- Harshan, KR, Yashwant Singh and Sharma, DN Formulation of indifferent gonads in goat embryo Cheiron (1994) 23 147-153
- Ashok, N and Harshan, KR Embalming and preservation of bovine carcasses. Cheiron (1994) 24; 131
- Balagopalan, TP, Devanand, CB; Rajankutty, K; Sarada Amma, Abraham Varkey, C; Ravindran Nayar, S and Muraleedharan Nair, KN Congenital anomalies in calves and kids Indian J Anim. Reproduction (1996) 17 (1): 35-38
- Rajkamal, PJ A case study of a specialised buffalo farmer in the Western Ghats Dairy Guide 96
- Rajkamal, PJ Scale to measure the attitude of farmers towards goat farming. Cheiron 96,
- Madhavan Pillai K, and George PO 97. Tick infestation in an Indian pangolin (Manis crassicandata). Indian Vet. J. 74-71-72.
- Amir Abbas Farshid; Rajan, A and Krishnan Nair K, 96. Ultrastructural pathology of lymphoid organs in Japanese Quail embroys in experimental ochratoxicosis *Indian Vet. J* 73 (12) 1223-1225.
- Amir Abbas Farshid and Rajan, A 96. Assessment of the cell mediated immune response of Japanese quails in experimental ochratoxicosis *Indian Vet. J.* 73 (11) 1117-1121.
- Biju P, and Ramachandran KM, 96. Conjoined kidney in a cat Indian Vet. J. path. 20 (1) 60-61.
- Gangadharan B, Muralidharan Nair KN, Chandrasekharan K and Leenadevi T 96. Fibrolipoma in an Asian Elephant. Zoo's print April 96 P-9.
- Gangadharan B, Chandrasekharan K, Muralidharan Nair KN, and Leenadevi T, 96. Pulmonary tuberculosis in an Elephant. Zoos print April 96. P-8.
- Lalitha kunjamma CR, and Krishnan Nair K, 97. Pathomorphology of the combined effect of ochratoxin-a and citrinin in Chicken embryos. *Indian Vet. J.* 74 January 97, 22-25.
- Ajitkumar G, Madhavan E, and Iyer CPN 96. Regulation of oestrous cycle in cross bred heifers. Indian J. Anim. Reprod. 17 (2) 99-101.

- Ibrahimkutty C, Metilda Joseph and Neelakanta Iyer CP, 96-A simplified Nigrosin Eosin Giemsa staining technique to distinguish acrosome damaged live and dead sperm. Indian J. Anim. Reprod. 17 (2) 122-123.
- Ibrahimkutty C, and Stephen Mathew 96. Oestrous synchronisation by intravulvo submucosal injection of PGF₂ alpha in goats 17 (2) 141-142.
- Latha C, and Nanu E, 97. Bacteriological quality of pasteurized milk and its public health significance. Proceedings of the 9th Kerala Science Congress, 115-117.
- Ibrahimkutty C, and Stephen Mathew 96. Quail- egg yolk in semen extenders. Indian J. Anim. Reprod. 17 (2) 155.
- Thang Tanma, Prabhakaran P, and Nanu E, Development of monospecific antibeef and antibuffaloe serum Indian J. Anim. Sci.
- Jalaludheen A, and Ramakrishnan A, Seasonal influence on the dietary protein and energy requirements of commercial egg type starter chicks. J. Vet. Anim. Sci. 25 (1) 1-4 property.
- Narayanankutty K, Leo Joseph and Ramakrishnan A, 94: Effect of floor space on layer performance under wirefloor system of rearing J. Vet. Anim. Sci. 25 (1) 5-8.
- Shyama K, and James CS, Dried spleen meal as biostimulator in kid rations J. Vety. Anim Sci. 25 (1) 9-13, 94.
- Sunil M. Nanu E, and Padmanabha Iyer R, Effect of electrical stimulation on total viable count of beaf J. Vet Anim. Sci. 25 (1) 14-15, 94.
- Kamana Barkataki, Narayanankutty K, and Ramakrishnan A, Effect of refrigeration storage on the quality of quail meat patties. J. Vet. Anim. Sci. 25 (1) 16-18, 94.
- Maryamma KI, Rajan A, Gopalakrishnan Nair M, and Manomohan CB, Effect of dietary protein levels on aflatoxin induced hepatocarcinogenesis in pigs J. Vet. Anim. Sci. 25 (1) 19-24, 94.
- Divakaran Nair M, Krishnan Nair M, Koshy Varghese and Sreekumaran T, Mitochondrial changes in the kidney and liver of mice induced by ochratoxin-A—an electron microscopic study J. Vet. Anim. Sci. 25 (1) 25-31, 94.
- Saseendranath MR, Ramakrishna J, Ramdas P and Tresamol PV DOT—Enzyme linked immunosorbent assay in the diagnosis of experimental *Trypanosoma evansi* infection in sheep. J. Vet. Anim. Sci. 25 (1) 32-34, 94.

- Venugopal R, Mathai E and Neelakanta Iyer CP. Antibiotic sensitivity pattern of uterine bacterial flora of repeat breeder cows. J. Vet Anim. Sci. 25 (1) 35-37, 94.
- Vahida AM and Mathai E. Isolation, identification and antibiotic sensitivity pattern of microorganisms causing endometritis in cattle. J. Vet. Anim. Sci. 25 (1) 38-40, 94.
 - Saseendranath MR, Ramakrishna J and Tresamol PV. Clinical syndrome in experimental *Trypanosoma evansi* infection in sheep. J. Vet. Anim. Sci. 25 (1) 41-46, 94.
 - Catherine M. Khatsu and Alikutty KM. Metabolic profile of 'Downer Cow' syndrome in crossbred dairy cattle. J. Vet. Anim. Sci. 25 (1) 47-49, 94.
 - Vijayan N and Rajan A. Toxicological effects of a combination of nitrofurazone and furazolidone in rabbits. J. Vet. Anim. Sci. 25 (1) 50-52, 94
 - Dakshinkar NP, Dhakate MS, Pathak VP, Kalorey DR, Marudwar SS and Patil SN Clinco pathological conditions of female genital tract in canines—a survey of 79 cases. J. Vet. Ani. Sci-25 (1) 53-55, 94
 - Ashok N, Vijayaraghavan C and Venkatakrishnan A. Histological changes of the adrenal gland during pregnancy in buffaloes (Bubalus bubalis) J. Vet. Sci. 25 (1) 56-60, 94
 - lbraheemkutty C Mathai E and Iyer CPN Metabolic rate of ejaculated buck spormatozoa J, Vet. Ani. Sci. 25 (1) 61-62, 94
 - Harshan, KR Ashok N and George PO Some gross observations on the tongue of a tiger (Panthera tigris) J. Vet. Ani. Sci. 25 (1) 63-64, 94
 - Ramnath V and Govinda Rao K Infuence of haemoglobin polymorphism on erythrocytic values in goats. J. Vet. Ani. Sci. 25 (1) 65-71. 94

Popular articles

എന്തിന് ഇൻകുബോററുകാം, കർഷകശ്രി, സെപ്ററംബർ 26, 51–56. വീട്ടിൽ തന്നെയുണ്ടാക്കാം കോഴിത്തിററ, കർഷകശ്രി, ജൂൺ 96, 70–71. ആയിരം കോഴിയ്ക്ക് ഒരാ കാട. കർഷകശ്രി, ജൂലൈ 96, 56–57. കോഴി രോഗങ്ങാക്ക് പ്രതിവിധി. കർഷകശ്രി, ഫെബ്രുവരി 97, 66–67. ദാറിയുക കോഴി ജനുസ്സുകളെ. കർഷകശ്രി, ഏപ്രിൽ 97, 60–61 കോഴികളിലെ രക്താതിസാരം തടയാം. കർഷകൻ, ഫെബ്രുവരി 97. മാംസത്തിവുടെ പകരുന്ന നാടവിരകാം. മാതൃഭൂമി, 23.2.97. മുഗങ്ങളെ താലോലിയ്ക്കുമ്പോരം സൂക്ഷിയ്ക്കുക. മാതൃഭൂമി, 3.1.97. സെൻഗുഫീവർ. ദേശാമിമാനി, ജൂൺ, 96 ചെപ്^റരോസ്പൈറോസിസ് ഇൻ അനിമൽസ[്] കർഷകൻ, മാർച്ച്, 9ആ തേങ്ങയ്ക്കു നല്ലകാലം വരുന്നു. ദേശാമിമാനി, മേയ്, 97 കൃത്രിമ പാൽ ഭിഷണിയാകുന്നു. കർഷകൻ, ഫെബ്രുവരി, 97.

Radio Talks

Talk on Foot and Mouth Disease in Cattle, August, 96. Feeding and Management of Rabbits, September, 96 പശുക്കുട്ടികളുടെ വിരബാധ. January, 96. Feeding of Calves, Thrissur, AIR.

Tuber crops in Nutrition and health. Trivandrum, AIR. Feeding and Management of Goats, Thrissur, AIR.

Research papers

- Jalaludeen, A and Ramakrishnan, A 94. Seasonal influence on the dietary protein and energy requirements of commercial egg type. J. Vety. Anim. Sci. 25'(1): 1-4.
- Narayanankutty, K, Leo Joseph and Ramakrishnan, A 94. Effect of floor space on layer performance under wirefloor system of rearing. J. Vety. Anim. Sci. 25 (1): 5-8.
- Kamana Burkatak, Narayanankutty, K, and Ramakrishnan, A. 94. Effect of refrigeration storage on the quality of quail meat patties. J. Vety. Anim. Sci. 25 (1): 16-18.
- Kamana Burkatak, Narayanankutty, K and Ramakrishnan, A 94. Processing yields, losses and meat fibre bone ratio in Japanese quails. J. Vety. Anim. Sci. 25 (1): 80-81.

College of Fisheries, Panangud

Research papers

- Sherief, PM and Mathew, PM 96. Dietary enhancement of colour in gold fish (Carassius auratus) Fishing chimes, September 96 pp. 17-18.
- Jayachandran, KV, Indira, B, Alphy Korath and Malika, V 96. Detailed morphometric studies in Penaeus indicus Milne Ed. from Veli Lake, Trivandrum. Proc. Indian Natn. Sci. Acad., B 62: 65-70.
- Anitha Sebastian and Jayachandran, KV 96. Investigations for confirming the status of two populations of *Macrobrachium equidens* (Dana) (Palaemonidae) II. Length-weight relationship and meristic studies. J. M. B. A. India Vol. 38 (in press).

Fisheries Station, Puduveypu

Research papers

- Purushan, KS 96. Sustainable shrimp production from traditional culture systems in Kerala.—An improved farming practice. Fishing Chimes Vol. 16, No. 7, October 96, pp. 33-35.
- Site Selection, Design and Construction of Ponds. Seafood Export Journal. Vol. XXVII, No. 12, December 96, pp 19-21.

Popular articles

Janakeeya Matsyakrishi. 'Desabhimani' daily 29.1.97.

Jose, MM 96. 'കോരം നിലങ്ങളിൽ ശുദ്ധജല മരുസുകൃഷിയുടെ സാധു

15.35 1.2 3.3 15.

Appendix VI

RESEARCH SCHEMES OPERATED UNDER DIRECTORATE OF RESEARCH AS ON 31.3.97

Project Title	Duration (in yrs)	Outlay (in Rs,)	Date of
1	2	3 '	
FACULTY OF AGRICULTURE			
ICAR Co-ordinated			1 .
College of Forestry, Vellanikk	ara	•	•
AICRP on Agroforestry (Functioning at LRS, Thiruvazhamkunnu) —Dr B Mohankumar	5	26,18,000	1-4-90
College of Horticulture, Vellan	iikkara		
AIC Floriculture	5	11,81,000	1-4-90
Improvement Project —Dr PK Rajeevan	•		
AIC Vegetable	5	13,75,000	1-4-90
Improvement Project	•		
—Dr S Rajan		00.00.000	1.4.00
AICRP on BCCP	5	20,38,000	1-4-90
-Dr PJ Joy AICRP on Weed Control	10	16,17,000	1-4-88
-Dr CT Abraham	10	10,11,000	1-1-00
AICRP on Medicinal &	5	29,05,000	1-4-90
Aromatic Plants		,,	
-Dr KT Prasannakumari			
All India Network Project	5	6,18,000	10-2-94
on Agricultural Ornitholog	ıγ		
– Dr Sitarama Rao		_	
All India Co-ordinated	5	7,68,000	1-4-95
Research Project on			
Agrometeorology			
-Dr AVR Kesava Rao	-	5 00 000	15 11 00
AICRP on soil test crop	1	5,96,000	15-11-96
response correlation Assoc, Dean			

1	2	3	4
AICRP on Agrl. Drainage, Karuma AICRP on Agrl. Drainage	ıd y 5	42,62,000	., 1-4-90
Assoc. Prof. & Head ARS, Chalakudy AICRP on Water ManagementProf. & Head	· +5·	32,16,000	; ", 1-4-90
ARS, Mannuthy AICRIP—Double Cropping Sub-centre —Assoc. Prof. & Head	.5 `:	94,000	1-4-90
BRS, Kannara AICRP on Fruits (Banańa) - Assoc. Prof. & Head	5.	39,05,000	1-4-90
CRS, Madakkathara AICRP on Cashew— Research on Cashew (Madakkathara & Pilicode) —Assoc, Prof. & Head	5	18,00,000	.1-4-90
CRS, Pampadumpara AICS & CIP— Research on Cardamom —Assoc. Prof. & Head	5	24,17,000	1-4-90
CSRC, Karamana AICARP -Project Directorate of Cropping Systems Research - Karamana & ECF Unit. Kayamkulam - Station Head	5	63,97,000	1-4-90
NARP SR, Vellayani		· ·	
AICRP on Nematode Pests - Dr MS Sheela	_、 5	16,95,000	1-4-90
AICRP on Forage Crops	5	7,73,000	1-4;90
AICRP on Pesticide Residue -Dr A Visalakshi	, 5	25, 58,000	1-4-90
AICRP on Honey bee - Abraham Jacob	4	9,71,000	20-1-94

1	2	3	4
AICRP on Tillage requirement of major Indian soils for different cropping systems —Dr S Pushkala	5	4,48,000	5-1-96
PRS, Panniyur		1	•
AICRP on Spices—Research on pepper —Station Head	5	36,15,000 °	I-4-90
RARS, Pattambi	**	•	
AICRP Double Cropping Main Centre —Associate Director	5	9,79,000	1-4-90
AICRP on Arid Legumes (Guar) —Associate Director	5	3,80,000	1-4-90
AICRP on Long Term fertilizer Experiment —Associate Director	5	8,20,000	15-5-96
RRS, Kayamkulam AICRP on oilseeds for	5	15,62,000	1-4-90
groundnut and sesamum —Station Head	J	10,00,000	
RRS, Moncompu		•	
AICRIP—BHP & GSV Merger— Sub-centre —Station Head	5	- 4,02,000 -,	1-4-90
SRS, Thiruvalla AICRP on Sugarcane —Station Head	5	19,63,000	1-4-90
ICAR			
RARS, Pattambi NSC -Breeder Seed Production UnitAssociate Director	5	21,10,000	1-4-90
ICAR Adhoc			
College of Agriculture, Vellayani	:		
Development of soya rice blended food recipes —L Prema	3	4,02,000	6-10-94

1	2	3	4
College of C&B, Mannuthy			
An evaluation of group management techniques in Agriculture adopted to enhance production and productivity of paddy in Kerala—Dr KA Suresh	3 	5,77,500	25-1-94
An appraisal of the agricultural input system in Kerala —Dr KP Mani		5.61,5 5 0	16-10-96
College of Forestry, Vellanikkara Standardisation of bareroot nursery techniques of some important tree species used for agroforestry planting in Kerala —Dr K Sudhakara	3	5, 21,600 [°]	29-4-93
Rainwater conservation in coconut based agroforestry systems by water harvesting techniques —Dr PK Asokan	3	2,80,800 5	27-5-93
Nutrient cycling in coconut to based intensive multiple cropping systems —Dr PK Asokan	36	4,26,600	5- 4-9 4
Nutritional composition & decomposition of leaf biomass of selected woody leguminous species grown under rainfed conditions —Dr K Gopikumar	3	2,17,400	13-6-95
College of Horticulture, Vellanikk	ara	•	
Survey collection, evaluation, conservation and cataloguing of germplasm of certain under exploited perennial vegetable	3 ,	2,34,000	28-8-9:
Evaluation of tomato for summer season —Dr S Rajan	3	2,09,300	11-10-9;

1	2	3	4
Cytogenetic investigations of Kaempferia galanga L., Piper longum L. and Andrographis paniculata Brum. —Dr KT Prasannakumari	3	4,80,800	28-4-93
Species relationship in the genus piper and the scope of related taxa in the improvement of Piper nigrum L.	· 3 [,]	6,09,000	. 1-6-94
Technology development for handling and utilization of common type of jackfruit of Kerala. — Dr Lyla Mathew	. 2 '	1,75,500,	.15-6-94
Standardisation of agrotechnics in foliage plants. —Sujatha VS	3 , 10,	5,71,458	1 -8 -94
Triploid Breeding of Tetra- ploid Hybrids of Palayankodan' (Musa AAB Mysore) x Pisang Lilin (Musa AA Pisang Lilin) for disease resistance. —Dr PK Valsalakumari	4	4,31,000 ^E	1-8-94
Studies on the influence of variety, maturity and storage of Cashew apple on the quality of fermented products (wine and liquor). —A Augustin	3	7,35,000	; 20-7 -94
Traditional and appropriate technologies for in-situ rain water harvest under humid tropical situations. —Dr R Gopinathan	3	7,77,000	23-6-9
Nutritional studies on the availability of iron. —V Usha	36	2,92,000	2-4-94
Survey, collection, evaluation, conservation and standardisation of vegetative propagation in five under exploited minor fruits of Kerala. —Dr Sarah T George	4	6,39,760	16-2-9

1	2	3	4
Soil chemical and radio-ecological investigations of rootwilt disease of coconut palm. —Dr PK Valsalakumari	2	1,13,500	21-2-95
Inter mat—Intra mat and crop competitive studies in banana (cv. palayamkodan) using tracer techniques. —Dr Sajan Kurien	4	3,59,480	4-2-95
Rapid multiplication of rare and endangered medicinal plants. —Dr R Kesavachandran	3	8,79,000	10-10-95
Rapid multiplication of cashew through in-vitro methods. —Dr R Kesayachandran	3	7,03,500	2-12-95
Training and extension project for integrated homestead development. —Dr Ranjan S Karippai	3	6,74,740	11-3-96
Evaluation and selection of medicinal plants suitable for a coconut based farming system. —Dr Alice Kurien	3 	8,95,600	21-6-96
Breeding bacterial wilt resistant tomatoes for processing. —Dr S Nirmala Devi	5	11,94,600	27-6-96
AMPRS, Odakkali		-	
Standardisation of agro- techniques in lesser known aromatic and medicinal plants of Zingiberaceae —Dr PP Joy	3	6,37,100	21-9-95
BRS, Kannara	-		
Development of a suitable natural bio-control agent the cyst nematodes Heterodera oryzicola infecting paddy/banana. Dr Job Sathyakumar Charles	3	9,97,260	22-7-96

1	2	3	4
NARP SR, Vellayani	•		
Homestead agroforestry system of Kerala productivity of the extent homestead models and increasing the efficiency of the models. —M Achuthan Nair	3	,4,1 <u>1</u> ,600 ,	1-8-93
Epidemiology of honey bee disease in Kerala and its management. —S Devanesan	4	6,70,560	1-8-93
Collection, evaluation, cataloguing and genetic improvement to tailor better commercial varieties with export potential in Anthurium spp. —ST Mercy	3	2,80,800	1-4-94
Evolving techniques for the invitro propagation of economically important mono and poly embryonic mango varieties of Kerala —Dr K Rajmohan	2	_, 5,71,000`	28-7-94
Development of improved strains of Oyster mushrooms and standardisation of techniques for their commercial cultivation in Kerala —Dr B Balakrishnan	3	5,12,000	21-2-95
RARS, Kumarakom		1	
Studies on mosaic disease of bittergourd — Dr AV Mathew	3	2,86,880 _.	1-4-95
Ecology and management of rice gall midge, Orseolia oryzae in Kuttanad —Dr PK Vasudevan Nair	3 .	10,79,760	16-2-96

•			
1	2	3	4
Evaluation of Kuttanad ecosystem for possible contamination by pesticides, herbicides and toxic heavy metals	3	16,00,000 ·	25-11-96
—Dr Sosamma Cherian	•		
RARS, Pattambi		·	
Breeding for resistance to mosaic virus in chilly (Capsicum annum L) —Dr TE George	3	4,49,680	19-3-94
Variability in iron and zinc availability in the laterite and lateritic soils of Central Kerala with reference to rice nutrition —Dr P Sureshkumar	3 1 	4,11,600	23-1-96
RARS, Pilicode			
Crop weather models for Cashew -Dr GSLHV Prasad Rao		4,67,800	6-5-92
Survey, collection, conservation and utilisation of pickling type mangoes -Dr B Jayaprakash Naik	5	7,95,740	1-6 -9 5
Influence of weather and soil factor on growth, yield, nut weight and on nut quality of cashew in West and Eastern coast of India — Dr GSLHV Prasada Rao	3	3,92,260	´1-4-95
Nitrogen use efficiency in plantation crops —Dr PA Wahid	3	4,28,500	22-1-96
Evaluation of Azolla pinnata strains from Kerala for growt and nitrogen fixation and their effects on rice as biofer tilizer in acid soil areas; —Dr M Govindan		5,17,000	24-1-96

1	2	3	4.
RRS, Kayamkulam In vitro cloning and improvement of orchids —Dr Shyam S Kurup	5	15,05,900	27-2-96
RRS, Moncompu Evaluation of cultivated and wild rice germplasm for biotic stresses	, 3	2,55,800	1-6-93
-Station Head Standardisation of agrotechniques for Anthurium -KE Usha	3	4,78,000	1-12-95
Genetic factors affecting nutrient content in vegetable Amaranthus	ara 3	9,69,760	17-2-95
-Dr VS Devadas Heterosis in chilli and brinjal associated with reference to bacterial wilt. -Dr TR Gopinathan	3 1	4,21,600	25-11-94
IRMA, AMUL			<i></i>
College of Horticulture, Vellanikk Participatory marketing management of vegetables in KeralaP Indiradevi	tara l	20,000	26-E-96
CAD India Ltd Cocoa research collaboration project between KAU and Hindustan Cocoa Products Ltd Dr R Vikraman Nair	10_	32,60,500	1-4-87
Central Silk Board All India Co-ordinated experiments on sericulture at Vellanikkara centre at KAU. —Dr AM Renjith	3	5,66,900	· 2 -12-93
NARP SR, Vellayani Standardising sericultural practices for the agroclimatic conditions of Kerala. —K Sadasivan Pillai	3	21,00,000	4-2-91

1	2	3	4
RARS, Ambalavayal			
All India Co-ordinated experiments on sericulture at Ambalavayal —Dr CM George	3	5,66,900	25-1 - 94
Centre for Development Studies, Tr	ivano	irum	
NARP SR, Vellayani			
Impact of dual role played by working womenDr Mary Ukkru	2 , .	1,01,800	1-3-97
Dept. of Rural Development, GOI			
College of C & B, Mannuthy	.*.	•.	
Marketting of poultry—Study with reference to Kerala —Dr N Rajan Nair	2	2,40,000	9-1 0 -96
Dept. of Biotechnology (GOI)			
College of Horticulture, Vellanikkar	a		
Tissue culture research on cocoa.	3	5,81,000	20-5-91
-Dr VK Mallika		dies oppi	
Tissue culture research on Black pepper — Dr PA Nazeem	3.	5,71,000	20-2-92
Tissue culture research on humid tropical plantation crops and spices. —Dr R Vikraman Nair	5	41,96,000	5-5-94 -
Establishment of distributed information sub centre of KAU. —Dr AVR Kesava Rao	2	15,23,000	, 6-5-95
Triploid production in water melon and Annonas through In vitro endosperm culture —Dr PC Rajendran	3	9,58,000	5-3-97
•	4	- _F	
NARP SR, Vellayani		E 00 000	E 0 00
Micropropagation of the tree spices in Kerala (Clove and Nutmeg). — P Dr Sivaprasad	3	5,00,000 -	5- 6-9 2

1 ,	2	3	4
Management of root diseases of important spice crops of Kerala with VA mycorrhiza —Dr P Sivaprasad	3	4,66,000	22-7-92
Rhizobium pulses association development of efficient strains of Rhizobium suitable for acid soil conditions. —Dr SK Nair	3	10,46;000	12-5- 9 3
Breeding for interspecific and intergeneric hybrid of orchids for commercial cultivation —Dr ST Mercy	3 , Y.	13,90,000	31-3-97
Dept. of Agri. & Cooperation (GOI) KCAE & T. Tavanur	`.	,	
Establishment of plasticulture development centre at Tavanur —Dr John Thomas	2	14,50,000	4-8-95
AMPRS, Odakkali			
Central scheme for development of medicinal and aromatic plants. (AMPRS Odakkali & COH, Vellanikkara) — Station Head	10	39,15,000	.1-4-90
CRS, Madakkathara		,	-
Central Sector Scheme for the Integrated Cashew Development—Establishment of Madakkathara Centre—Station Head	3	8,00,000	21-2-94
FSRS & KVK, Kottarakkara	т		•
Central sector scheme on cashew—Estt. of Regional Nursery at FSRS, Kottarakkara—Assoc. Prof. & Head	4	12,00,000	14-8-95

1 .	2	,3	4
PRS, Panniyur		, .	•
Central sector scheme for integrated programme for the development of spices. (Panniyur, Ambalavayal, Mannuthy, Vellanikkara and Pilicode). — Station Head	1	57 ,50,000	16-3-94
RARS, Pilicode			,
Central Sector Scheme for the Integrated Cashew Development— Establishment of Pilicode Centre — Station Head	3	4,00,000	21-2-94
Dept. of Science & Technology (Go	OĮI) , /		
College of Horticulture, Vellanikk	ara.	· c ′ *	
Estt. of a National Centre for medium range weather forecasting on experimental basis at KAU main campus —Dr AVR Kesava Rao	1 '	· ` `98,000´′	8-3-9)
Agrometeorological investigation on summer vegetables —Dr P Balakrishna Pillai	3	. 7,29,653	· . 12-6-9!
Solid waste management with special emphasis on sustainable agriculture — Dr R Gopinath	2	5,30,300	` ŹŹ-7 -9\$
An assessment of stressed ecosystems of Thrissur District of Kerala —Dr N Saifudeen	3	7,01,385	25-4-96
RARS, Ambalavayal			
Starting of experimental agrometeorological advisory services (AAS) at RARS, Ambalavayal -Dr KC lype	1 .	1,00,000	. 17-4-96

1	2	3	4
RARS, Pilicode	_	i	:
Crop growth simulation models of rice —Dr GLSHV Prasada Rao	2	2,13,620	6-8-92
Starting of experimental agrometeorological advisory services at RARS, Pilicode —Dr GSLHV Prasada Rao	1	1,00,000	20-7-95
Dept. of Animal Husbandry, (GO AMPRS, Odakkali	K)		• 4
NWDPRA—Reaearch Project for various agroclimatic zone —Assoc. Professor	l s	4,20,000	. 3-8-95
NARP SR, Vellayani			. •
NWDPRA—Research project for various agroclimatic zone —Assoc. Director(SR)		19,40,000	3-8-95
RARS, Ambalavayal			
NWDPRA—Research project for various agroclimatic zones —Assoc. Director	1	6.60,000	, 3-8-95
RARS, Kumarakom			
NWDPRA—Research project for various agroclimatic zones —Assoc, Director	ŀ.	8,12,700	3- 8-9 5
RARS, Pattambi 🥆			•,
NWDPRA—Research project for various agroclimatic zones — Assoc. Director	1	1,96,000	′ 3-8- 95
RARS, Pilicode		,	
NWDPRA – Additional Research projects for various agro-climatic zones (North) – Assoc. Director	3	16,92,000	4_11-96

1	2	3	4
Dept. of Atomic Energy, GOI			. ,
College of Horticulture, Vellanikk	ara		, 7.
Studies on coconut palm in coastal Quilon district of Kerala —Dr PV Balachandran	3	4,60,870	21-7-93 ,
Directorate of Cocoa, Arecanut &	Spices	Dev.	•
Establishment of the Nursery for distribution of budded Cocoa plants and hybrid seedlings at the KAU		11,18 ,0 00	7-9-93
Dept. of Soil Conservation			
NARP SR, Vellayani			().
Field testing of tissue culture plants & training in plant tissue culture (Operated—one centre at Vellayani and 3 centres at Vellanikkara) — Assoc. Director	1 	5,00,000	1-7∙94
Directorate of Cashewnut Develop	ment	1 4	
CRS, Anakkayam			
Development of Model Cashew Gardens as a part of transfer of Scientific Technology to the farming community —Prof. & Head	r 1 .	2,49,800	2-1-97
CRS, Madakkathara	•	· · · · · · · · · · · · · · · · · · ·	
Development of Model Cashew Gardens as a part of transfer of Scientific Technology to the farming community —Prof. & Head		84,850	2-1-97 ,
RARS, Pilicode			
Development of Model Cashew Gardens as a part of transfer of Scientific Technology to the farming community —A.D.		1;20,950	2-1-97

1	2	3	4
EEC			3 1
EEC-KHDP Programme, Vellar Research & Development an		1,56,00,000	1-1-94
breeder seed production programme of Kerala Horticulture Development programme - Dr. S. Ramachandran Nair		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
la si a			
FACT College of Horticulture, Vellan	ikka ra	•	
Evaluation of slow release of fertilizer for important crops of Kerala -Dr. A. I. José	3	6,00,00 0	27-5-9
FAO-IPM, Philippines			
NARP SR, Vellayani Extension-cum-demonstrati	on I	21,900	31-7-9!
of integrated pest managen in rice in Kuttanad of Alapp district, Kerala —Dr TG Nalinakumari	ent	te filozofie.	
ICSSR			
College of C & B, Mannuthy Organisational alteration fo development—A study on t role of Govtal & Non Govtal nisations for rural develops in Kerala	he orga-	37,800	24-9-9
$-\mathtt{Dr}$ KA Suresh		4 25	
ISRO GBP, National Natural Res	o. Mgt, Ba	ingalore	
KCAE&T, Tavanur Remote sensing based soil vegetation—atmospheric transfer (SVAT) models for eco-system of South India —Dr Jobi Paul	3 rice	75,000	19-12-9
Kerala Community Irrigation Pr	•	,	, 1,
College of Horticulture, Vellan		0.00.000	
Analysis of the impact of irrigation in coconut garder in Thrissur district Dr PS Geethakutty	ns ··.	2,00,000	5-12-9

1	2	3	4
Kerala Forest Development Fund	<u>.</u>	Ţ./; .	
College of Forestry, Vellanikkara		1 071	
Clonal propagation of	3 [[]	45,000	17-8-93
Rosewood through tissue			
culture		•	•
-Dr NK Vijayakumar	ò	50,000	2-8-93
Standardisation of nursery techniques of selected tropical	. 2 ,	30,000	2-0-00 ·
forest tree species	• .	0 • • · · ·	
—Dr K Gopikumar	٠,	•	
. Viability of Hopea parviflora	2	40,000	2-12-94
(Bedd.) seeds with reference	a .		•
to temperature, medium of storage and microencapsulatio			
techniques			
K Sudhakara			
Compilation and publication of	1	60,000	15-2-96
checklist of Indian mammals			
—PO Nameer	::-	A chaire	66 4 00
Effect of habitat destruction on		99,400	26-4-96
the Avifauna of western ghats – A case study of Peechi – Vazhar	i		
wild life sanctuary	i.		
—PO Nameer	1-		
MARICO Industries Limited, Bomb	ay,		
RARS, Pilicode	•		
Climate and Coconut	5	7,82,000	1-6-94
—Dr GSLHV Prasada Rao		•	
Ministry of Health & Family welfare	(GOI)		
AMPRS, Odakkali			,
Central scheme for providing	. 1	5,00,000	27-3-91
assistance for development and cultivation of medicinal	1 4		
plants			
-Assoc. Prof. & Head	1		
Ministry of Water Reso. (GOI) & CA	DA (GC	K) '	
KCAE&T, Tavanur	• •		
Weed control and moist	· 3 *	2,16,000	28-4-95
conservation using LDPE		•	. 1
-Dr PV Habeebur rehman			

, · · · · · · · · · · · · · · · · · · ·	2	3	4
ARS, Mannuthy			
Development of mulch-cum-	3 , ;	5,87,00 0	6-5 -9
drip and sub surface pad	·	, .	, ,
irrigation systems for			
vegetables			
—Dr U Jaikumar	- y		
National Horticultural Board .			
College of Horticulture, Vellanikka	ra	,	• 2
Pilot testing of technology of	3	3,52,000	4-5-9
Papaya based projects			,
- KB Sheela		* *	
Transfer of Technology in low	3 ,	3,61,000	2-7-9
cost nursery production and			•
management technique —PK Valsalakumari			
•			
Other Depts. (GOK)			
College of Forestry, Vellanikkara	0 4	40.405	
Habitat utilisation of animals and their parasitic burden	2 .	40,465	20-4-9
with special reference to		·	. •
Elephants in Vazhachal forest			
Division.			
-Dr Jacob V Cheeran	1.		
LRS, Thiruvazhamkunnu		•	
Establishment of forage and	5	3,36,000	20-4-94
seed production units through	· ·	1	
effective utilisation of waste			
lands	٠,		
-P Ramachandran	5		
Potash Research Institute of India			
NARP SR, Vellayani			•
Standardisation of plant part	3	22,600	20-8-93
as an index of potassium status		' + 1. r'	•
in banana Musa Nendran			•
- Dr P Padmaja			
Planning Board, GOK			
College of C & B, Mannuthy			_
Participatory local initiative in	1	19,800	31-12-96
Agricultural production—A		•	7. 7
case study of vegetable cultiva-			
tion in Kanjikkuzhy			
-P Shaheena			

. 1	2	3	4
Rajastan State Mines & Minerals Ltd. RARS, Pilicode	, ,	_	
Studies on agronomic efficacy of Rajphos compacted with MAP —Dr C Sundaresan Nair	2 .	3,83,600	27-2-97
Rajastan State Mines & Minerals Ltd. College of Horticulture, Vellanikkar	a		
Root activity studies on rubber using p 32 as a tracer - Dr PA Wahid	2	80,000	24- 9- 93
STEC/STED (GOK) College of Agriculture, Vellayani	\$		
Evaluation of acidity para- meters in wet land soils of Kerala in relation to nutrient " availability	3	75,000 -	1-2-92
-Dr Thomas Varghese	a '	25,000	 E 10 0E
Post haavest studies on processed products made from mango and pappaya Dr L Prema	2 , , , .	25,000	5-12-95
College of Horticulture, Vellanikkar	a		
Bio-ecological studies on the odonata (Dragon flies) with special reference to their predatory potential in the biological control of important rice pests —Dr KI Joseph NARP SR, Vellayani	3	24,000	23-4-92
Investigations on the diseases of bamboo seeds in Kerala	3	22,000	14-7-87
Investigations on the changes in the physico-chemical properties of coconut garden seeds due to continuous interculture of fodder crops	2	50,000	31-8-91
Monitoring of pesticide residues in milk and milk products in Kerala — Dr Nazeema Beevi	3	67,500	1-9-92

1	2	, 3	4
Utility value of foldable sola dryer at household level/far level-Standardisation studio —P Mary Ukkru	rm	22,000	1-12-92
Impact of sustainable farmin practices on soil properties and crop productivity —Dr R Gopimony		75,000	27-7-93
Potential of Bioagents (Bacill maceran and Bacillus circula for the control of root knot nematode in the field —Dr MS Sheela		10,000	, 19-5-93 :
Identity of phytophthora aff ing coconut and pepper and their bio control —Dr CK Peethambaran		25,000	17-9-93
Studies on pesticide residue in meat, body fat, blood and various organs of animals slaughtered for meat purposed.—Dr R Vijayan	l	70,000	16-10-93
Monitoring of residues of insecticides in vegetables collected from the markets of Kerala —Dr Thomas Biju Mathew	3	73,000	6-12-94
Recycling of vegetable garl by vermiculture biotechnole —P Prabhakumari		2,04,600	3-5-94 77.
Development of mycoher- bicides for the biocontrol of water hyacinth (Eichhornia crassipes (mart) Solms) —Dr A Nazeema	3 f -	75,000	28-8-99
Emeritus Scientists Fellowsl Compilation of a compendit on crop improvement resea in Kerala. —Dr PB Gopinathan	ım	,30,000	27-2-9 ¹

1	2	3	4
Spices Board (GOI) RARS, Kumarakom		1.1	-
Exploiting the genetic variability in Garcinia Cambogia Deer for its rehabilitation and mass production of planting materials —KA lnasi	5	19,59,000	5-3-97
USDA/FERRO College of Forestry, Vellanikkara			
Light utilization and canopy nitrogen use efficiency of component crops in some select agroforestry systems. —Dr B Mohankumar	3 eted	9,06,80 0	25-8 -93
International Soil Ref. & Info. Centre	, N' 1	ands,	
NARP SR, Vellayani	`		
Establishment of soil reference, collections for training, extension and research purposes at KAU.	2 1	3,55,000	17-11-92
FACULTY OF AGRICULTURAL ENC	INEE	RING	
ICAR Co-ordinated KCAE & T, Tavanur			
AICRP on Farm Implements & Machinery —Dr M Sivaswamy	5	7,12,000	1-4-90
AICRP on Energy requirements in Agriculture sector — Jippu Jacob	5	19 ,0 3,500	22-10-93
ICAR Adhoc			
Development, testing and intorduction of low and medium head, high discharge pumps. —Dr K John Thomas	3	8,27,800	1-6-95
Design and development of equipment for threshing, cleaning and grading of black pepper —MV Prince	2,	5,20,000	20-9-96

.

. 1	2	3	4 ,
Technology development for decorticating cashewnut — Jippu Jacob	3	11,00,000	22-10-96
Kole Land Development Agency, Tl	ırissur	Tr	
Introducing mechanisation programme for harvesting and threshing in kole lands of Thrissur and Malappuram districts. — Jippu Jacob	2	9,22,000	1 5- 6-95
Ministry of Agriculture (GOI)	,,		
Network project for perfor- mance evaluation and optimal utilization of water of SPV pumping system —Dr KP Visalakshy	2	4,82,000	2-12-96
CAPART			
College of Horticulture, Vellanikka	ra .	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	÷ .
CAPART Scheme—Modification of 'Petty & Para' to improve its efficiency and economy. (Functioning at COH, VKA.) —Dr K John Thomas	`∙ 3	11,28,000	21-10-91
FACULTY OF FISHERIES			
ICAR Adhoc			
College of Fisheries, Panangad Developing suitable technology and production of a formulated feed based on	3	4,53,420	16-10-96
clam meat for the larvae and adult of the fresh water prawn Macrobrachium rosenbergii —Dr D Damodharan Nambudiri	•		
Fisheries Station, Puduveypu			,
Seed resources and production potential of selected carnivorus fishes in the south west coast of India. —Dr MM Jose	. 3	4,49,000	9-2-95

` 1	2	3	4
RARS, Kumarakom			
Pathology of diseases of fresh water fishes with special reference to epizootic ulcerative syndrome — Dr KG Padmakumar	3	4, 69,900	9-2-96
RRS, Vyttila		•	
Rice-Fish/Prawn components for an integrated farming system for coastal tract of Kerala —Dr NK Sasidharan	3	4,20,000	26-3-97
Dept. of Fisheries (GOK)			
College of Fisheries, Panangad			
Induced maturation and spawning penaeid prawns for commercial level seed production. – Dr Mohanakumaran Nair	2	3,00,000	29-5-92
STEC/STED (GOK)			
Pesticide induced histopa- thological changes in selected fresh water fishes of Kuttanad, Kerala	2	50,000	22-2-94
Anna Mary		* ,	
Wasteland Development Board Fisheries Station, Puduveypu		ı	
Demonstration and Training model for a fishery based farming system in Coastal Wasteland implemented at Fisheries Station Puduveypu—Dr KS Purushan	3	12,49,000	23-9-94 ,
FACULTY: VETERINARY & ANIMA	T. SC	IFMCPC	
ICAR Co-ordinated	50		
College of Veterinary Animal Science	ences	, Mannuthy	,
AICRP on Poultry —AKK Unni, Poultry	5	69,92,000	1-4-90
Field progeny testing project at Mannuthy		22,82,000	1-1-94
—Dr Sosamma lype, Cattle/Buf	faloe	1	

1	2	3	4
Network programme on micronutrients in Animal Nutrition and production Implementation—CT Thomas, Cattle/Buffaloe	5	31,32,000	4-11-94
Network programme on embryo transfer technology in animal production —Dr SP Suresh Nair, Ani. Repr	3 oducti	30,00,000	25-5-95
BF, Mannuthy			•
AICRP on Pigs TV Viswanathan, Swine/Eleph	5 ant/Ho	. 49,14,000 ⁵	14-7-93
CAR			
College of Vet. Ani. Sci., Mannuth	ıvi		
Centre of advanced study in veterinary pathology —Dr A Rajan, Ani. Diseases	3,	41,25,000	25- ,1-95
CAR Adhoc			•
Conservation of germplasm of Vechur Cattle of the coastal area and dwarf cattle of the high range of Kerala —Dr Sosamma Iype, Cattle/Buf	3 faloe	25,52,000	1-1-96
Effect of Tannin rich feeds on byepass protein availability —CT Thomas, Cattle/Buffaloe	3	7,06,550	18-8-94
Development of Cell culture duck plague vaccine for simultaneous vaccination with duck pasteurellosis —Dr S Sulochana, Ani. Disease	3 : 	9,18,940	I -7-9 5
Aetiopathology and diagnosis of bovine mastitis —Dr A Rajan, Ani. Diseases	3	10,87,000	21-1-97
Fungal Mastitis of animals with special reference to yeast mastitis	3	3,27,140	13-10-95
-Dr PC James, Ani. Diseases		- 1	

. .

1	2	·3	4
Genetic improvement of Malabari Cross Bred Goats through Progeny testing and selection —Dr Stephen Mathew, Goat/R	3 abbit	17,72,000	6-5-96
An evaluation on chromosomal damage to the cattle of radioactive belt areas of Keral —Dr KV Reghunandanan, Cattle		6,30,000 loe	30-10-96
Investigation on Urinary Calculogenic and Calcullytic Agents in Ruminant and Mono- gastric Animals —Dr CS James, Cattle/Buffaloe		8,30,000	.26-1 2- 9
Centre for Adv. Studies in Plty. S	Sci., M	lannuthy	*
Characterisation and evalua- tion of native ducks in Kerala —Dr A Jalaludeen, Poultry	2	6,08,000	4-10-9
Coconut Development Board College of Vety. Ani. Sc. Mannuth	. y .		. 3
Development and standard- isation of Dairy foods incorporating coconut —Dr PI Geevarghese, Ani. Pro		5,00,000	1-8-9
Dept. of Agriculture, Thiruvananth	lapura	m	
Survey to evaluate SNF and fat content of cows milk in Kerala. —Dr P Prasad, Cattle/Buffaloe	1,	4,00,000	14-6-9
Department of Biotechnology (GOI Molecular characterisation of	3	23,59,000	19-10-9
duck plague virus. —Dr S Sulochana, Ani. Disease	S		•
	: S	, ,,	

1	2	3	4
Dept. of Science and Technology (GOI)		
PBF, Mannuthy			
Formulation of low cost animal feeds using feed stuffs available in rural areas of Kerala. —Dr KM Syam Mohan, Cattle/B		1,79,000	20-11- 96
AICRP on Poultry, Mannuthy			
Introduction of cage system in egg production in the homesteads. Dr AKK Unni, Poultry	3	8,14,000	27-3-95
Preliminary investigation on reproductive pathology in two strains of white leghorn with emphasis on endocrine system—Dr N Vijayan, Poultry		1,80,600	18-11-95
Dept. of Animal Husbandary (GO)	K)		
College of Veterinary Animal Scie	nce,	Mannuthy	
Investigations on mortality of Ducks in Kuttanad, Kerala. —Dr A Rajan, Ani. Diseases	3	1,50,000	6-5-93
Ascitic syndrome in poultry —Dr KV Valsala, Ani. Diseases	2	20,000	19-2-94
Schistosomiasis in cattle in buffaloes in Thrissur and Palakkad districts. —Dr K Rajamohanan, Ani. Disea	2 3ses	70,000	26 -3 -94
	- I	30,000 ses	6-1-94
Etiology, diagnosis and con- trol of Mastitis in Crossbred Cattle.	3 '	80,000	1-2-94 :
—Dr S Sulochana, Ani. Disease: Kid mortality —Dr S Sulochana, Ani. Disease	3	40,000	4-4-94

1	2	3	4
Infertility in Crossbred cows with special reference to endometritis and remedial measures.	2	40,000	16-9-95
—Dr K Madhavan, Ani. Reprod	uction	1	
Mortality among kids with special reference to gastro-intestinal nematodes. – Dr K Devada, Ani Diseases	1	50,000	1-10-95
Coccidiosis in Poultry —Dr Lucy Sabu, Ani. Diseases		50,000	16-9-95
Indian Council of Medical Researd Immunological response to selected mycotoxins in ducks and quails with special reference to immunomodulation —Dr A Rajan, Ani. Diseases	3	12,00,000	6-1-97
Ministry of Agriculture (GOI)			
RARS, Pilicode			
Strengthening of pig breeding farm. —ADR, Swine/Elephant/Horse	1 .	14,35,000	26-4-96
NABARD			
College of Veterinary & Animal Sc	ience,	Mannuthy	
Bioconversion technology to augment the nutrient utiliza- tion of agro-industrial bye- products for ruminants.	3	9,26,780	1-12-95
—Dr CS James, Cattle/Buffaloe Conversion of biodegradable aquatic animal (prawn) waste as livestock feed.	3	10,71,375	11-4-96
Dr Maggie, D Menachery, C	!attle/	Ruffalòe	
STEC/STED (GOK)			
Assessment of the mortality	2	25,000	1-1-95
pattern in livestock and poultry -A Rajan, Ani. Diseases		23,000	1-1-50
An ex-post-facto study on goat keeping among the scheduled caste weaker section. —Dr PJ Rajkamal, Extension	1	25,000	3-12-96
Total outlay		20,44,30,991	
- Total Outlay		60,77,00,331	

TABULATED STATEMENT OF RESEARCH SCHEMES OPERATED BY DIRECTORATE OF RESEARCH AS ON 31/3/97

_	Faculty					
	Agrl.	Ag. Engg.	Fish	Vety	Total	
Co-ordinated (75% - 25%)	28	2	0	5	35	
,, (100%)	1	0 ´	0	1	2	
Ad-hoc	47	3	4	9	63	
NARP	0	- 0	0	. 0	Ó	
External aided (100%)	81	2	3	22	108	
External aided (75%-25%)	1	1	0	. 0	2	
Total	158	8	7	37	210	

Appendix VII

WORKS EXECUTED DURING THE YEAR 1996-'97

Name of work	Total expendi- ture upto 31.3.97	Progress as on 31.3.97
Construction of compound wall along the western boundary of College of Agriculture, Vellayani	2,41,711	Work completed
Repairs and black topping of main road at College of Agriculture, Vellayani	4.47,664	11
Construction of Academic Block at KCAET, Tavanur	60,00,000	. 11
Construction of approach road to Academic Block at KCAET, Tavanur	1,85,715	19
Construction of Trainess Hostel at KCAET, Tavanur	28,65,957	"
Construction of type III quarters, Tavanur	19,62,936	Work nearing completion
Construction of type V quarters, Tavanur	8,24,546	Work completed
Const. of low cost buildings at KCAET, Tavanur	4,15,450	,,

1	2	3
Const. of buffalo shed at ULF, Mannuthy	5,18,313	Work completed
Construction of carp-cum- prawn hatchery at Fisheries College, Panangad	8,83,522	
Construction of compound wall (balance portion) at Fisheries College, Panangad	9,83,277	11
Construction of clinical complex at Mannuthy	15,53,907	Work in progress
Construction of a waiting shed and modification to inpatient ward at Veterinary Hospital, Mannuthy	3,06,607.80	Work completed
Construction of office building for goat farm at Mannuthy	2,74,916	".
Construction of a building for ICAR network project on embryo transfer at Mannuthy	6,66,521.20	,,
Providing black topping to the roads at Mannuthy	5,98 , 240	11
Construction of compound wall around the Meat Technology Unit at Mannuthy	1,91,983	"
Construction of compound wall along the northern boundary at ARS, Chalakudy	3,32,434	11
Construction of compound wall along the South-West boundary of 'A' Block at CRS, Balaramapuram	3,73,990	11

1	2	3
Construction of compound wall along the side of internal pathway at CSRC, Karamana	2,29,239	Work completed
Construction of field lab at PRS, Yazhakulam	3,26,774	Work in progress
Construction of compound wall along the north-east and south boundary at FSRS, Kottarakkara	3,82,775	Work completed
Construction of compound wall for KVK Block at RARS, Ambalavayal	1,14,864	"
Construction of compound wall in Block No. I, II and VI at RARS. Nileswar	6,94,086	
Construction of compound wall along the north boundary of 'A' Block at RARS, Kayamkulam	2,54,593	•
Construction of irrigation channel at SRS, Thiruvalla	1,95,290	31
Construction of compound wall along western boundary at SRS, Thiruvalla	2,27,216	
Construction of feed store and lab building at CBF, Thumburmuzhi	2,30,000	,,
Construction of approach road to Office building at CBF, Thumburmuzhi	3,06,671	11
Construction of compound wall at the western boundary at Main Campus, Vellanikkara	5,14,568	11
Providing additional height to the compound wall along the northern side border adjacent to Cocoa and Pepper Nursery, Vellanikkara	5,87,396	11
Construction of Ladies Hostel, Panangad	90 lakhs	***

1,	2	3
, %	/	
Construction of administrative building and hostel annexe for boys, Panangad	1.62 lakhs	Work completed
Construction of hostels and academic building at Nileswar	6.57 lakhs	© Work in progress
Construction of library building it Main Campus, Vellanikkara	2.75 lakhs	Work completed
Construction of Co-operation and Banking building at Main campus, Vellanikkara	1.67 lakhs	Work in progress
Potal plan expenditure for works for he year 96-97 spend by the Direct of Physical Plant is Rs. 2,80,00,000.		·