

NATIONAL AGRICULTURAL RESEARCH PROJECT

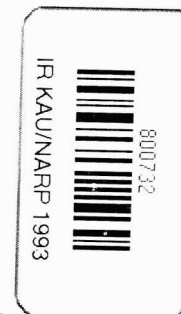
KERALA AGRICULTURAL UNIVERSITY

THRISSUR

Abstract Statement

(Rs. in lakhs)

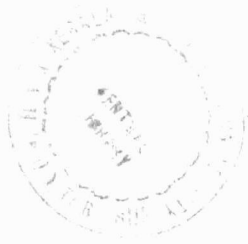
Item of expenditure	Sanctioned amount for 4 years from 20-4-88	Amount released	Expenditure up to date (26-5-93)	Expenditure percentage to total
1	2	3	4	5
Salaries	66.46	57.90	60.94	92
ROC	17.28	14.81	18.63	108
Equipment	35.77	37.45	35.95	101
Civil works	82.34	60.52	91.87	111
Farm Development	51.60	52.09	52.47	102
Books & Journals	3.90	4.04	3.85	99
<b>Total</b>	<b>257.35</b>	<b>226.81</b>	<b>263.51</b>	<b>102</b>
Supplementary fund for civil works	10.00	10.00	10.18	100
Addl. fund for library				
a)	10.03	10.00	10.02	100
b)	17.00	17.00	16.87	100
<b>Total for supplementary/additional</b>	<b>37.03</b>	<b>37.00</b>	<b>37.07</b>	<b>100</b>
<b>Grand Total</b>	<b>294.38</b>	<b>263.81</b>	<b>300.58</b>	<b>100</b>



Funds released recently for data processing (.24.29 lakhs) and modernisation of laboratories (Rs.49.06) not included in the statement.

KAO  
MSP

800732



IR KAO/2005/1912

NATIONAL AGRICULTURAL RESEARCH PROJECT  
University: Kerala Agricultural University, Vellanikkara, Thrissur  
Overall Financial Progress (Rs. in lakhs as on 26-5-1993)

Stations, Date of start 20-4-1988

Item of Expenditure	Southern Zone Vellayani		Special Zone of problem Areas Kumarakom		Central Zone Pattambi		Northern Zone Pilicode		High Range Zone Ambalavayal		Total for all stations	
	S	E	S	E	S	E	S	E	S	E	S	E
<u>A. NARP SHARE</u>												
Salaries	16.74	18.00	10.45	12.17	19.61	18.48	11.54	7.16	8.12	5.13	66.46	60.94
ROC	3.84	3.96	2.40	2.39	5.28	5.82	3.36	3.54	2.40	2.92	17.28	18.63
Equipment	2.90	2.90	10.48	10.40	10.25	10.22	4.14	4.15	8.00	8.00	35.77	35.95
Civil works	9.90	10.79	20.89	24.11	15.25	16.88	17.42	18.78	18.88	21.11	82.34	91.67
Farm Development	7.00	6.99	10.70	11.36	9.50	9.34	11.00	11.38	13.40	13.40	51.60	52.47
Books & Journals	0.70	0.70	1.10	1.06	0.90	0.90	0.70	0.70	0.70	0.49	3.90	3.85
Total	41.08	43.34	56.02	61.77	60.79	61.64	48.16	45.71	51.30	51.05	257.35	263.51

SUPPLEMENTARY FUND FOR CIVIL WORKS  
(Sanitation, Water Supply, Electricity, Furniture etc)

Southern Zone		Special Zone		Central Zone		Northern Zone		High Range Zone		Total	
S	E	S	E	S	E	S	E	S	E	S	E
0.70	0.70	1.00	1.18	1.71	1.79	4.84	4.76	1.75	1.75	10.00	10.18

ADDITIONAL FUND FOR LIBRARY

a)	1.50	1.50	2.35	2.36	2.35	2.34	1.48	1.48	2.35	2.34	10.03	10.02
b)	<u>2.00</u>	<u>2.00</u>	<u>2.30</u>	<u>2.30</u>	<u>2.50</u>	<u>2.49</u>	-	-	<u>1.97</u>	<u>1.97</u>	<u>17.00*</u>	<u>16.87**</u>
	3.50	3.50	4.65	4.66	4.85	4.83	1.48	1.48	4.32	4.31	27.03	26.89
Total	4.20	4.20	5.65	5.84	6.56	6.62	6.32	6.24	6.07	6.06	37.03	37.07
Total	45.25	47.54	61.67	67.61	67.35	68.26	54.48	51.95	57.37	57.11	294.38	300.58

\*Amount for DOR 8.23

\*\* 8.11 amount spent - DOR

NATIONAL AGRICULTURAL RESEARCH PROJECT  
KERALA AGRICULTURAL UNIVERSITY

Incremental staff position under NARP-II Sub-Project (as on 24-5-1993)

Staff position	Southern Zone Vellayani		Special Zone Kumarakom		Central Zone Pattambi		Northern Zone Pilicode		High Range Zone Ambalavayal		Total	
	S	V	S	V	S	V	S	V	S	V	S	V
Scientific position	8	1	5	-	11	4	7	2	5	2	36	9
Supporting and administrative	7	-	5	-	5	-	2	-	2	-	21	-
Overall vacancy positions												
	Total position				Total vacancies				% vacancies			
Scientific position	36				9				25			
Supporting	21				-				Nil			

Details of vacancies:

- Southern Zone : Asst. Professor (Soil & Water Engg) at Kottarakkara is vacant
- Special Zone : No vacant positions
- Central Zone : One post each of Asst. Prof. (Ani. Nutr.), Agrl. Implements at Pattambi, One post of Assoc. Professor (Agronomy) at Chalakudy and one post of Asst. Professor (Hort) at Kannara are vacant
- Northern Zone : One Assoc. Prof. (Agrl. Engg) and one Asst. Prof. (Ent) are vacant
- High Range Zone : One Assoc. Prof. (Ani. Sci) and one Asst. Prof. (Plant Pathology) are vacant.

NATIONAL AGRICULTURAL RESEARCH PROJECT  
 PROGRESS OF CIVIL WORKS IN SUB PROJECTS (PHYSICAL) AS ON 26-5-1993

Date of Start: 20-4-1988

Station:

Zone	Station	Item of work	Area M <sup>2</sup>	Sanctioned cost (Rs. in lakhs)	Remarks
1	2	3	4	5	6
Southern Zone	RARS Vellayani	Workshop and furniture	100	1.48	Work completed
	Special Station Kottarakkara	Quarters for Asst. Prof. and other staff (2)	162	2.78	Work completed
		Trainees hostel including furniture	300	4.95	Work completed
		Seminar hall and furniture	50	0.69	Work completed and procured
		Total		9.90	

1	2	3	4	5	6
Special Zone	RARS, Kumarakom	Assoc.Prof. quarters (1)	196	2.94	Work completed, handed over
		Asst. Prof. quarters (1)	110	1.65	Work completed "
		Other staff quarters (2)	200	2.80	Completed "
		Vehicle shed (1)	50	0.50	Completed "
		Cowdung gas plant (1)	-	0.20	Dropped
	RRS, Moncompu	Quarters for other staff (2)	100	1.40	Work not arranged/dropped
		Vehicle shed (1)	50	0.50	Completed, handed over
		Ceiling to Conference Hall	-	0.10	Completed "
		Hall			
		Boat shed (1)	90	0.90	Completed, Handed over.
	RRS, Kayamkulam	Internal water supply	-	0.50	Completed "
		Asst. Prof. quarters (1)	196	1.68	Completed. "
	SRB, Thiruvalla	Assoc.Prof. Quarters (1)	196	2.94	Completed, Handed over. "
		Quarters for other staff (1)	50	0.70	-do-
		Office Lab. (1)	200	2.48	-do-
		Vehicle shed (1)	50	0.50	Not taken up/Dropped.
		Store (1)	50	0.50	-do-
Waiting Shed (1)		60	0.60	Completed. Handed over.	
				20.89	
Total				=====	

1	2	3	4	5	6
Central Zone	RARS, Pattambi	Trainees' Hostel with Furniture (1)	300	4.95	Completed, handed over
		Workshop (1)	100	1.35	work completed "
		Seminar Hall with Furniture (1)	120	1.78	Completed
		Cattle shed (1)	200	2.00	work completed "
		Vehicle shed (1)	40	0.40	Work completed "
	BRS, Kannara	Laboratories & Furniture (1) - Pineapple	50	0.82	Work completed "
		Mist Chamber (1)	50	0.75	Work completed. "
		Quarters for other staff(1)	50	0.70	work completed "
		Waiting shed for Labourers (1)	150	1.50	Work completed "
		Store (1)	100	1.00	-do-
		Total		15.25	=====



1	2	3	4	5	6			
Kannur	KARJ, Piliicode	Assoc. Prof. Quarters (1)	196	2.94	Work completed	handed over		
		Asst. Prof. Quarters (2)	220	3.30	Work completed	"		
		Laboratory (1)	60	0.81	Work completed	"		
		Workshop (1)	100	1.35	Work completed	"		
		Trainees Hall (1)	120	1.50	Work completed	"		
		Vehicle shed (1)	120	0.60	Work completed	"		
		Furniture	-	0.23	-	"		
		Goat shed (1)	50	0.50	Work completed	"		
		PRS, Panniyur		Assoc. Prof. Quarters (1)	196	2.94	Work completed	"
				Office-cum-laboratory	100	1.50	-do-	"
Furniture	-			0.15	-	"		
Green House (1)	100			1.00	Civil work completed	"		
Waiting shed (1)	60			0.60	Work completed	"		
Total				<u>17.42</u>				

1	2	3	4	5	6
High Range Zone	RARS, Ambalavayal	Assoc.Prof.Quarters (1)	196	2.94	Work completed handed over
		Asst.Prof. Quarters (2)	336	5.04	..
		Other staff quarters (2)	110	1.50	..
		Workshop (1)	100	1.35	..
		Training Hall & Furniture (1)	120	1.65	..
		Rabbit shed (1)	100	0.75	..
	CRS, Parapadumpara	Sheds for shade studies (2)	-	1.75	..
		Implement Shed (1)	100	1.20	..
		Cardamom curing shed (1)	100	2.70	..
	Total			<u>18.88</u>	
				=====	
Grand total for all the zones				82.34	

NATIONAL AGRICULTURAL RESEARCH PROJECT  
KERALA AGRICULTURAL UNIVERSITY

Progress of Civil Works in Sub-projects (Financial as on 26-5-1992  
(Zone-wise in lakhs)

	Sanctioned amount	Expenditure	
Southern Zone - Vellayani	9.90	11.00	X
Special Zone -Kumarakom	20.89	24.11	X
Central Zone - Pattambi	15.25	16.20	X
Northern Zone - Pilicode	17.42	18.78	X
High Range Zone- Ambalavayal	18.88	21.01	X
			All works completed
Total	82.34	91.10	

NATIONAL AGRICULTURAL RESEARCH PROJECT  
KERALA AGRICULTURAL UNIVERSITY

Details of expenditure - Procurement of equipment under hand sub-projects  
(in lakhs of rupees-1992)

Items	Southern Zone Vellayani		Special Zone Kumarakom		Central Zone Pattambi		Northern Zone Pilikode		High Range Zone Ambalavayal		Total	
	S	E	S	E	S	E	S	E	S	E	S	E
	-	0.50	5.40	5.98	5.14	5.75	1.04	0.94	1.40	1.34	9.40	9.67
Equipment and materials	1.25	1.25	3.80	5.87	7.11	6.77	1.50	1.45	3.95	4.64	17.07	17.90
Office equipment	0.18	0.18	-	-	-	-	1.00	1.78	0.30	0.24	2.08	2.20
Vehicle	-	-	2.50	2.50	-	-	-	-	1.10	1.25	3.80	5.25
Library	-	-	0.40	0.40	-	-	-	-	-	-	0.40	0.40
Metereological equipment	0.20	0.20	0.20	0.20	-	-	-	-	0.50	0.08	0.90	0.94
Construction of permanent	0.13	0.13	-	-	-	-	-	-	-	-	0.13	0.13
Construction of temporary	0.70	0.78	-	0.01	-	-	-	-	0.75	0.45	1.53	1.30
<b>Total</b>	<b>2.90</b>	<b>2.90</b>	<b>10.48</b>	<b>10.68</b>	<b>10.25</b>	<b>10.22</b>	<b>4.14</b>	<b>4.15</b>	<b>8.00</b>	<b>8.00</b>	<b>35.77</b>	<b>35.95</b>

1000/752

NATIONAL AGRICULTURAL RESEARCH PROJECT  
 IASIS AND OITS OF UNIVERSITY  
 Farm Development Expenditure (up to 30-6-1988)

Date of start: 20-4-1988

(in lakhs)

Zone	Station	Amount sanctioned	Amount Spent	Utilization percentage
Southern zone	RAIS Vellayani	2.00	1.99	100
	Special Station, Kottarakkara	5.00	5.00	100
	Total	7.00	6.99	100
Special zone	RAIS Kumarakom	3.00	3.70	123
	RAIS Poncompu	2.00	2.00	100
	RAIS Kappadikulam	2.70	2.69	100
	RAIS Vyttila	2.00	1.71	86
	RAIS Thiruvalla	1.00	1.26	126
Total	10.70	11.36	106	
Central zone	RAIS Pattambi	5.00	4.93	99
	ARS Chalakkudy	2.50	2.39	96
	ARS Kannara	2.00	2.02	101
Total	9.50	9.34	98	
Northern zone	RAIS Piliicode	6.00	6.31	105
	PRS Farniyur	5.00	2.07	101
	Total	11.00	11.38	103
High range zone	RAIS Ambalavayal	6.00	6.92	115
	CRS Pampadumpara	7.40	6.48	88
	Total	13.40	13.40	100
Grand Total		51.60	52.47	102

## KERALA AGRICULTURAL UNIVERSITY

## NARP II

## PROPOSALS FOR ADDITIONAL FUNDS (Rs. in lakhs)

	ZONE					Total
	Southern	Special	Central	North	High Range	
Water Supply	0.75	6.00	5.00	10.50	5.00	27.25
Sanitation	0.50	0.30	3.00	-	5.00	8.80
Farm Electrification	0.50	1.70	1.50	-	2.50	6.20
Sales counter	-	-	2.00	-	-	2.00
Approach Roads	-	5.00	2.50	12.00	-	19.50
Quarters	-	-	-	16.00	16.50	32.50
Farm Development (compound wall, fencing, soil conservation etc)	-	2.00	10.00	12.00	-	24.00
Furniture for conference hall, hostel, workshop	2.00	1.12	9.00	4.25	-	16.37
Field lab, modification of lab	-	-	-	5.00	15.50	20.50
Scientific equipment, field equipment	18.50	43.45	-	6.15	5.50	73.60
Total	22.25	59.57	33.00	65.90	50.00	230.72

KERALA AGRICULTURAL UNIVERSITY  
ACTION TAKEN ON THE RECOMMENDATIONS OF THE IDA MISSION

RECOMMENDATIONS	ACTION TAKEN				
	<u>Southern Zone</u>	<u>Special Zone</u>	<u>Central Zone</u>	<u>Northern Zone</u>	<u>High Range Zone</u>
Fill critical scientific positions in High Range, Ambalavayal, Northern Zone, Pilicode and Central Zone, Pattambi (Action: KAU)	As on 26-5-1993, the vacancy position is less than 10 per cent	No vacancy	As on 26-5-1993, the vacancy position is 19 per cent	As on 26-5-1993, the vacancy position is 28%	As on 26-5-1993, vacancy position less than 10 per cent
Review and raise the availability of funds for the operating cost, replacement and maintenance of buildings, equipment and vehicles, and for staff mobility outside the state (GOK, KAU)	The KAU has provided sufficient funds	The KAU has provided sufficient funds	The KAU has provided sufficient funds	The KAU has provided sufficient funds	The KAU has provided sufficient funds
Review and revise existing system of farmers - DOA - University linkages with respect to quality of monthly workshops, joint field visits, on-farm trials and contact of grass-root extension workers with the farmers (GOK, KAU, DOA)	The duration of the Zonal workshops has been increased to two days now. Farm trial programme has been and continues to be strong in the southern zone	The duration of the Zonal Workshops has been increased to two days and it is conducted twice in an year	The duration of the Zonal Workshops has been increased to two days now. It is conducted twice in an year	Zonal Workshop is now conducted twice in an year. The duration is two days	The duration of Zonal Workshops has been increased to two and twice a year

RECOMMENDATIONS	ACTION TAKEN				
<p>Ensure regular and effective participation of Departments of Forestry, Animal Husbandry, Fisheries, Watersheds in the monthly dist. and the six monthly zonal workshops (GOK DOA and other Development Departments)</p>	<p>The Directors of the Departments are regularly invited; participation is improving now</p>	<p>The Directors of the Departments are regularly invited; participation is improving now</p>	<p>The Directors of the Departments are regularly invited; participation is quite good</p>	<p>The Directors of the Departments are regularly invited; participation is improving now</p>	<p>The Directors of the Departments are regularly invited; participation is improving now</p>
<p>Constitute the task force teams between ICAR Institute and University scientists to jointly plan a strategy to find the remedial measures/solution of coconut root wilt and quick wilt in pepper (GOK, KAU, ICAR Instts.)</p>	<p>N.A. to Southern Zone</p>	<p>N.A. to Special Zone</p>	<p>N.A. to Central Zone</p>	<p>N.A. to Northern Zone</p>	<p>N.A. to High Range Zone</p>
<p>Strengthen research on homestead farming and integrate the research efforts to suit to the local farming systems (KAU, DOA)</p>	<p>Three models have been evolved which are being tested. Similar exercise has been started for Irukki</p>	<p>Two models have been evolved which are being tested.</p>	<p>N.A. to Central Zone</p>	<p>Efforts are being made in this line</p>	<p>Models of Cro pattern have developed</p>



RECOMMENDATIONS	ACTION TAKEN				
<p>Improve the relevance of research by making use of status reports and the documented feedback; prepare a note on action taken on the research priorities in each farming situation in the Zone and submit a compiled document for all the five zones to the World Bank by March 15, 1981.</p>	<p>The (draft) document is ready</p>	<p>Being prepared</p>	<p>Being prepared</p>	<p>Being prepared</p>	<p>The document is ready</p>
<p>Utilize the excellent material available in status reports for teaching Agriculture in Kerala to graduate and PG students(KAU)</p>	<p>Decisions to be made by KAU</p>	<p>Decisions to be made by KAU</p>	<p>Decisions to be made by KAU</p>	<p>Decisions to be made by KAU</p>	<p>Action has been taken by the KAU</p>
<p>Review the main pattern of farm and plan a research-cum-development strategy for the state which is sustainable(ecological balance) &amp; economically acceptable to farmers (GOK, KAU, IWA)</p>	<p>Being considered</p>	<p>Being considered</p>	<p>Being considered</p>	<p>Being considered</p>	<p>Action taken</p>

KERALA AGRICULTURAL UNIVERSITY  
LEAD AND VERIFICATION FUNCTIONS OF  
RESEARCH STATIONS  
(REVISED)

Research Centre	Lead function	Verification function
<u>CENTRAL ZONE</u>		
Pattambi	Rice and Rice based cropping systems, pulses, seed technology, organic farming in rice.	Vegetables in rice fallows: Animal Management, Agro-forestry, Crop weather modelling, mechanisation in rice culture and fruits.
Agricultural Research Station, Mannuthy	Rice for Kole land management system, Research in rice and coconut	Vegetable & organic farming research
Banana Research Station, Kannara	Banana & banana based cropping systems	Vegetables
Agronomic Research Station, Chalakudy	Water management for rice and rice-based cropping system and other annual crops	Agro-techniques in rice and rice-based cropping system.
Aromatic & Medicinal Plants Research Station, Odakkali.	Essential oils	Medicinal Plants
Cashew Research Station, Madakkathara.	Cashew	-
Cashew Research Station, Anakkayam		Cashew, Vegetables in cultivators' field.
<u>SOUTHERN ZONE</u>		
Vellayani	Research under partially shaded conditions. Export-oriented vegetable & cutflower production	Rice, fruits, home-stead farming, coconut, tuber, vegetables, farm machinery for garden land.

Kottarakkara.	Soil & water conservation & management	rice, Horticulture, Agroforestry, Cashew.
Coconut Research Station, Balaramapuram.	Agro-techniques for coconut and coconut-based farming system in red soils.	-
Cropping Systems Research Centre, Karamana	Rice-based cropping system	Agrotechniques (rice), Integrated farming systems with rice/fish/poultry/cattle.

SPECIAL ZONE OF PROBLEM AREAS

Kumarakom	Integrated farming	Rice in Kayal lands, Root (wilt) management, Homestead farming in Kuttanad.
Sugarcane Research Station, Thiruvalla	Sugarcane	Vegetable (Cucurbitaceous vegetables)

-----  
 Research Centre                      Lead function                      Verification function  
 -----

Rice Research Station, Kayankulam	Rice in Onattukara, Annual oil seeds and pulses	Vegetables (including Cassava) in homesteads, Mushrooms.
AICRP on Agri. Drainage, Karumady	Agri. Drainage	-
Rice Research Station, Moncompu.	Rice in Kuttanad	-

NORTHERN ZONE

Pilicode	Coconut and coconut-based farming system, Agrometeorology and Crop weather modelling on tree crops, Waste land management, Management of Malabari Goat	Cashew, Cucurbitaceous vegetables, rice, pickle mangoes, arecanut, Agroforestry, Banana.
Pepper Research Station, Panniyur	Pepper	-

HIGH RANGE ZONE

Ambalavayal	Pepper and pepper-based cropping in high ranges, hill paddy, cool season vegetables.  Soil & Water Management, Sub-tropical fruits, Tree spices, coffee-based cropping system.	Essential oils and Medicinal Plants, Ginger.
-------------	--	--

Cardamom Research Station, Pampadumpara.	Cardamom	Pepper, Tree Spices,
--	----------	----------------------