

Natural Resources, Energy & Science
Authority of Sri Lanka,
47/5, Maitland Place,
Colombo 7.
30-05-1989.

Hon. Minister of Higher Education,
Science & Technology,
Ministry of Higher Education, Science
and Technology,
18, Ward Place,
Colombo 7.

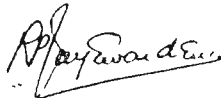
Dear Sir,

ANNUAL REPORT OF THE NATURAL RESOURCES ENERGY & SCIENCE AUTHORITY OF
SRI LANKA FOR THE PERIOD 1st JANUARY TO 31st DECEMBER 1987

In terms of Section 16(III) of the Natural Resources, Energy & Science
Authority of Sri Lanka Act No. 78 of 1981, I have the honour to
submit the Annual Report of the Natural Resources, Energy & Science
Authority of Sri Lanka for the period 1st January to 31st December 1987
together with

- (a) A copy of the Audited Income and Expenditure Account
- (b) A copy of the Audited Balance Sheet
- (c) Auditor General's Report

Yours obediently,



(Dr. R.P. Jayewardene)

Director-General

NATURAL RESOURCES, ENERGY & SCIENCE AUTHORITY OF SRI LANKA

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Annual Report - 1987

1. Membership of the Natural Resources, Energy and Science Authority
of Sri Lanka During the Year

Board members from 1st January 1987 - 31st December 1987

Dr R.P. Jayewardene (Director General), NARESA

Prof. S.T. Fernando

Dr Irwin Gunewardene

Mr M. Faiz Mohideen

Prof (Mrs) W.P.D. Pereira

Prof. K.K.Y.W. Perera

Prof. (Mrs) N. Ratnasiri

Mr L.K. Seneviratne

Mr L.C.A. de S. Wijesinghe (Add. Director General)

Dr R.L. de Silva

Prof. T.E.J. de Fonseka

Principal Staff

Director General

Dr R.P. Jayewardene - M.D., F.R.C.P. (Lond)

Additional Director General

Mr L.C.A. de S. Wijesinghe B.Sc(Cey). M.A. (Oxon)

Deputy Director General

Mr M.A.T. de Silva - B.Sc (Lond); M.Sc (Lond)

Director - Scientific Affairs

Mr D.E.F. Ferdinandez - B.Sc (Lond); M.Sc (Wales)

Asst. Director (Scientific Affairs)

Mrs S.P. Prelis - B.Sc (Cey)

Dr K.S.S. Liyanage - B.Sc (Cey); Ph.D (Aust.)

Mr M. Watson - B.Sc (Cey); M.Phil (Lond)

Scientific Officers

Mr D.P. Athulathmudali	- B.Sc (Sri Lanka)
Mr R.M.W. Amaradasa	- B.Sc (Sri Lanka), M.Sc (Sri Lanka)
Miss C.G. Perera	- B.Sc (Hons) (Sri Lanka)
Mrs W.R.M. Sandanayake	- B.Sc (Sri Lanka) M.Sc (Sri Lanka)
Mr J.A. Chandrasiri	- B.Sc (Sri Lanka) (On study leave)
Miss J.D.S. Dela	- B.Sc (Sri Lanka) (On study leave)
Miss H.A.U. Amarasinghe	- B.Sc (Sri Lanka)

Staff Assistants

Mr B.M.C.K. Basnayake	- B.Sc (Sri Lanka)
Mr W.B. Yapa	- B.Sc (Sri Lanka)
Mr A.W.J. Karunasinghe	- B.Sc (Sri Lanka)

Director Information

Mr N.U. Yapa - B.Sc (Cey); A.L.A.; A.S.L.L.A.; M.L.S. (W.Ont)

Asst. Director (Publications)

Mrs N.R. Amarasuriya - B.Sc (Cey) A.L.A.

Documentalist

Mrs S.R. Namuni	- B.A. (Cey) A.S.L.L.A.
Mr W.R. Jayakody	- B.Sc (Cey)
Mr B.G.N. Kumarasinghe	- B.Sc (Cey)
Mrs W.G.S. Wimalasena	- B.A. (Sri Lanka), A.S.L.L.A.

Administrative Secretary

Mr A.L. de Alwis - B.Sc (Econ.) Lond

Asst. Administrative Secretary

Mr M.A.P. Mudannayake

Chief Accountant

Mrs C. Jayamanne

- A.C.A. (Cey.)

Accountants

Mrs S. Udugama

Mrs K. de Silva

Miss K.C.J.T.K. Fernando

Graduate Translator

Mrs S.L. Tillekaratne

- B.A. (Cey)

Confidential Secretary

Mrs S. Ratnayake

Repographic Technician

Mr S.R.U. de Silva

Establishment Assistant

Mr S. Galketiya

Printing Superintendant

Mr A.A.A. Ranasinghe

1.0 BOARD ACTIVITIES

1.1.0 Twelve Authority meetings were held during 1987.

1.1.1 The Authority submitted a memorandum to His Excellency the president on :

The National Science and Technology Policy documents of the Ministry of Plan Implementation.

1.1.2 Authority approved the following :

- (a) Supplementary research grants
- (b) The award of 53 grants on the NARESA Research grants scheme for 1988, covering the disciplines of chemical sciences (12), Biological Sciences (4), Physical and Engineering Sciences (7), Agriculture and Animal Husbandary (8), Medical and Veterinary Sciences (9), Social Sciences (11), Miscellaneous (2). A few more applications are being considered by the working committee's and they would be put up for board approval in Jan/Feb 1988.
- (c) A number of research grants were awarded from funds provided by the Canadian International Development Agency.
- (d) The construction of an additional building for NARESA at a total cost of around Rs. 4.5 million.
- (e) A scheme for the consolidation of the salaries of NARESA employers was drawn up.
- (f) The final accounts for the year 1986, were examined and passed, the budget for 1987 was also approved and it was noted that foreign aid agencies are continuing to give generous financial support for selected research projects.

1.1.3 A large number of research projects supported by NARESA (and its predecessor the NSC), from 1970 onwards, have now been completed by the Authority.

Information on the completed projects has been published in an updated booklet in 1987. With a view to making more information on completed grants readily accessible to scientists, it has been decided to computerize the information using a newly acquired micro computer at NARESA. Preliminary work in developing a software package for this purpose was completed.

1.1.4 The Authority looked into the possibility of providing support in promising areas of research with a view to developing centres of excellence. The proposal was referred to the different working committees.

1.1.5 A new publications series, NARESA Monographs, was launched in order to provide an opportunity for scientists and technologists to publish reviews containing the most up-to-date information on selected topics of interest.

1.1.6 The Authority undertook to organize training programmes (with British Council assistance) from 1988 for science laboratory technicians. This programme has hitherto been run by the British Council.

2.1 WORKING COMMITTEE ON SCIENCE EDUCATION

2.1.0 Nine meetings were held during this period and the position of grants is given in Table 1.

2.1.1 Supplementary Reading Material in Science

Two booklets were printed.

2.1.2 Intensive English Course for Junior Scientists

An intensive English course for research assistants of NARESA funded grants was held in October 1987.

2.1.3 Donation

Rs. 20,000/- was donated by Prof. V. Basnayake (Hony. Director, Science Education Working Committee) to NARESA to serve as an Endowment for Science Education Research.

2.1.4 Resignation from the Working Committee

Committee Member Dr D.G. Premadasa resigned from the Working Committee as he had to leave the country on sabbatical leave.

2.1.5 The new method of assessment of G.C.E. (O/L) examination as proposed by the Department of Examinations was discussed by the Working Committee with the Commissioner of Examinations.

2.2 WORKING COMMITTEE ON SOCIAL SCIENCES

2.2.1 Seven meetings were held during 1987 and the position of grants is given in Table 1.

2.2.2 The committee recommended 11 grants for funding in 1988.

2.2.3 Seminar

(a) A seminar on 'Impact of New Technologies on Society' was held on 3rd March 1987 in order to prepare a national paper for the 8th General Conference of IFSSO.

(b) A Seminar on 'Entrepreneurship in Sri Lanka' was held on 27/11/87 in the Auditorium of NARESA.

2.3 WORKING COMMITTEE ON AGRICULTURE & ANIMAL HUSBANDARY

2.3.1 Eight meetings were held during this period. The position of grants is given in Table 1.

2.3.2 The committee approved 2 NARESA grants and 05 CIDA grants for 1987. One grant was awarded out of funds given by the Univ. of Exeter.

2.3.3 Seminar

A three day seminar for all the grantees and Research Assistant of the CIDA funded Potash Fertilizer Research Project was held at the Pegasus Reef Hotel and Prof. R.J. Soper, the CIDA representative for the programme was present at the Seminar.

2.3.4 Appointments

Mr K.B. Palipana, Director R.P.R.D.C. of Paddy Marketing Board was recommended to serve on Expert Committee on Post Harvest and Food Technology of SAARC.

2.4 WORKING COMMITTEE ON BIOLOGICAL SCIENCES

2.4.1 Twelve meetings were held during 1987 and the position of grants is given in Table I.

2.4.2 Workshop for Grantees

Two workshops to present the work under the grants were held during the year.

2.4.3 NARESA Merit Awards

Recommendations were made for the merit award in the field of Biological Sciences.

2.4.4 Bibliography of Publications

A survey is being carried out on the publications of grantees to compile a bibliography of scientific publications.

2.4.5 University of Georgia - Sri Lanka Collaborative Project on Teak-Defoliator

The project proposals submitted by three grantees namely Dr Sunil Ranasinghe, Dr (Mrs) J.P. Edirisinghe and Dr (Mrs) N.E. Gunawardene were sent to Dr Kudon of the University of Georgia for his observations.

2.5 WORKING COMMITTEE ON CHEMICAL SCIENCES

2.5.1 Nine meetings were held during this period and the position of grants is given in Table I.

2.5.2 Seminars

A seminar on 'Sampling for Quantitative Analysis' was held on 16-10-87 at the Auditorium. 41 Senior and Junior scientists participated in this seminar.

2.5.3 Publications

'The Hydrogeochemical Atlas of Sri Lanka' was published on the basis of work carried out under the NARESA grant RGB/81/20 by Prof. C.B. Dissanayake & Dr S.V.R. Weerasooriya.

2.5.4 Merit Awards

Dr E.R. Jansz and Mr E.V. Packiyasothy (RGB/82/17) and Prof. C.B. Dissanayake (RGB/81/20), were jointly recommended for the NARESA Merit Award for 1987.

2.6 WORKING COMMITTEE ON MEDICAL & VETERINARY SCIENCES

2.6.1 Eight meetings were held during this period and the position of grants is given in Table 1. The committee recommended 12 grants for funding during 1988.

2.6.2 OTHER ACTIVITIES

a) Workshops

Workshop on priority areas for research was held on 30th January '87 with the participation of 23 local experts in different disciplines. The proceedings of the workshop will be published. The proceedings of the Workshop on Paediatrics Research was submitted by Prof. (Mrs) Priyani de Soysa.

2.6.3 Seminars

A seminar on "Investigational work by Students" was held on 31st January '87. The investigational works by 22 students groups from medical faculties were presented at the seminar.

A grantee seminar was held on 25th September 1987. Eleven papers were presented based on the work done on research projects.

2.6.4 Merit Awards 85/86

Dr W.D. Ratnasooriya was recommended by the committee for a merit award for 1985/86 for the work done on the grant RG/83/44.

2.7 WORKING COMMITTEE ON PHYSICAL AND ENGINEERING SCIENCES

2.7.1 Eleven meetings were held during this period and the position of grants is given in Table 1.

2.7.2 Seven grants were recommended for funding during 1988.

2.7.3 Other Activities

Workshops

A workshop on Priority Areas for Research was held on 20th June '87, in order to study the status of R&D in different disciplines in physical and engineering sciences. A document on the recommendations of the above workshop was prepared and it was decided to circulate among the staff in the Physical and Engineering Departments of the Universities and to other relevant research institutions.

2.7.4 Seminars

The report on the seminar on Landslides-Causes and Prevention was compiled by Mr D. Jayewardene. It will be published shortly.

2.7.5 National Computer Software Documentation Centre

On a recommendations of the working committee action was initiated to gather information on computer software with a view to obtain a software centre at NARESA.

Several institutions and university departments have provided the information requested on locally produced software packages which are readily available with them. The information on these software packages is compiled by NARESA.

2.8 WORKING COMMITTEE ON NATURAL RESOURCES

Four committee meetings and three sub-committee meetings on 'Forestation Models' were held during this period.

The position of grants is given in Table 1.

2.8.1 Manuscripts on Natural Resources

The manuscripts on "Water Resources of Sri Lanka" written up by Mr P. Manchanayake was received.

2.9 WORKING COMMITTEE ON ENERGY

2.9.1 Three meetings were held during 1987. The position of grants is given in Table I.

2.9.2 Project :- Socio-economic Energy Survey - Watinapaha -
----- Gampaha District -----

The final report with the survey data analysis and recommendations was submitted to NARESA. Field visits were made by officials of the CEB and NARESA in order to formulate project proposals to be submitted to the EEC.

2.9.3 Project :- Suitability of Jatropha Seed Oil as a
----- Substitute for Kerosene -----

Jatropha oil was extracted with petroleum ether and the extracted oil was used in the following experiments.

- (1) Comparison with a coconut oil in a Telpahana
- (2) Use of (a) Jatropha oil
 (b) Jatropha oil blended with kerosene
 in a lamp made out of a discarded
 electric bulb.
- (3) Use of Jatropha oil in improved lamps.

A consumer survey on the model of lamp designed by the grantee using Jatropha oil was carried out. The survey included 20 house holders in a selected village. The objective of the survey was to evaluate the performance in relation to the traditional bottle lamp used in rural homes.

2.9.4 Project :- Oil Producing Plants

Planting of oil producing plants had been done at Thanamalvila and Kurunegala. Arboreta also had been established at these two places.

It was decided to work on the yield of oil, potential kerosene replacement and its cost competitiveness with kerosene. The committee decided to plant Ricinus communis (Beheth-Endaru) in addition to Rata-Endaru.

Arrangements are being made to obtain land at a school in Gampaha District for the cultivation of Jatropha plants.

2.9.5 Project :- Monitoring Field Performance of the Sarvodaya, CISIR, IDB and CEB Stoves

A report submitted by the grantees on the follow-up studies at the site where the survey was carried out was submitted to NARESA and was accepted by the committee.

As a follow up of the findings of this project, an improved SAVOOD stove was developed by IDB. Arrangements were made for both field and laboratory testing of this improved stove.

2.9.6 Directory on Energy Projects

A questionnaire was formulated to be sent out to the institutions in order to collect information on Energy Projects and technologies developed and tried out to be compiled into a directory.

3.0 OTHER COMMITTEES AND STUDY GROUPS

3.1 National Committee on Man & Biosphere (MAB) Research Programme

Eight meetings were held during this period. The position of grants is given in Table 1.

The Regional Training Workshop on the Ecology and Conservation of Humid Tropical Forests of the Indo-Malayan Realm was held during the year. The workshop was organized by NARESA with technical and financial assistance from UNESCO, World Heritage Convention and USAID. The workshop was attended by participants from India, Indonesia, Pakistan, Nepal, Bangladesh, Philippines, China, Vietnam and Sri Lanka.

The recommendations made by the participants at the completion of the workshop were communicated to UNESCO for its consideration.

3.1.1 Flora Project of Sri Lanka

Arrangements have been made by the MAB National Committee to request funds from donor agencies to continue the flora project of Sri Lanka. Already six volumes have been published under the project.

3.1.2 Publications

- (1) Handbook on the Macro Fungi of Sri Lanka.
Publications No. 17.

3.1.3 Research Projects

The study of 'integrated land used and conservation plan for resource utilization and management - Leanwela mini catchment - Mahawewa - Pannala area' was completed during 1987. This study was financed by UNESCO Regional Office in New Delhi. Three grants were ongoing during the year.

3.2 NATIONAL MANGROVE COMMITTEE (NATMANCOM)

3.2.1 Three meetings were held during 1987 and the position of grants is given in Table 1.

3.2.2 Review of the Fourth Regional Task Force Meeting -
Ranong, Thailand 18-19 May 1987

A report was submitted on the above meeting by
Dr S. Liyanage.

3.2.3 Integrated Multidisciplinary Research Programme at
Ranong, Thailand - UNESCO/RAN/87/120

The following persons were nominated and selected to take part in the Ranong Mangrove Project in Thailand.

- (1) Dr A.B. Samarakoon
- (2) Dr K.H.G.M. de Silva
- (3) Mr K.J.S. Jayawickrema
- (4) Miss L.P. Moragoda
- (5) Mr A.M.S. Pushpananda

3.2.4 Integrated Research Programme on Mangrove Ecosystem
in Negombo Lagoon

The committee recommended 4 new research project proposals to be considered under the above programme.

UNESCO has pledged their support to the integrated research programme and a research proposal has been submitted to UNESCO for funding.

3.2.5 Protection of Mangrove Areas

The Survey Dept. has agreed in principal to assist NATMANCOM to survey critical mangrove areas in the country.

3.2.6 Establishment of a National Mangrove Park

A proposal to establish a National Mangrove Park in Kadolkelle Negombo has been submitted and it was accepted by the NATMANCOM and the Board of NARESA. The project will be undertaken with the assistance of NARA and the Coast Conservation Department.

The members of the committee and the AGA Officers of Negombo visited the Kadolkelle, Negombo on 12th December '87 to identify the islands adjacent to Kadolkelle which are suitable for the reservation of the National Mangrove Park.

The Land Commissioner's Dept. and AGA Office made arrangements to transfer the ownership of the following islands to NARESA.

Island 1	-	Kuda Molliya Island	-	6 ac, 2 roods, 6 perches
Island 2	-	Maha Molliya Island	-	23 ac, 1 roods,
Island 3	-	No name	-	5 ac, 3 roods, 4 perches

4.0 INTERNATIONAL COLLABORATION IN RESEARCH & DEVELOPMENT

4.1 USAID Programme in Science and Technology

Work on 9 grants is continuing under this programme. Fourteen new preproposals were submitted by scientists for consideration under this programme. Eight preproposals were selected by the appropriate committees and were forwarded to US-AID Office in Colombo.

4.1.1 Visits of Consultants

A consultant Prof. R. Litz visited Sri Lanka to work with the two grantees working on tissue culture projects.

A consultant from Bangalore Dr M.J. Chako arrived in Sri Lanka to work with scientists at the CARI on Biological Control work.

4.2 BIOLOGICAL CONTROL OF SALVINIA (ACIAR) PROJECT)

4.2.1 Six meetings of the Technical Committee were held during this period and the position of grants is given in Table 1.

4.2.2 Three grants were operating during this year.

4.2.3 The visit of Dr Peter Room was made to Sri Lanka this year and he took part in the discussions and the field visits.

4.2.4 In this project the release of insects was done and requests were being received for the introduction of the insect to various reservoirs which are infested by salvinia.

4.2.5 Experiments on the effect of Fertilizer on Salvinia and the life cycle of the insect were being carried out.

The various stages of the life cycle of the insect were filmed in a field visit to Thinipitiya tank, Battuluoya and Kadawatha. A project proposal was drafted for the bio-control of water hyacinth.

4.3 THIRD WORLD ACADEMY OF SCIENCE (TWAS)

A number of collaborative programmes are continuing and local scientists are benefiting from these programmes.

An agreement was signed with this Academy in order to strengthen the existing link.

4.3.1 The names of the following scientists were forwarded to TWAS for nominations to the Academy membership.

- a) Prof. A.A.L. Gunethilake
- b) Prof. S. Mahalingam
- c) Prof. M.A. Pemadasa
- d) Prof. K. Tennakoon

4.3.2 Details of TWAS-NARESA prizes for young scientists were advertised in the press.

4.3.3 The biannual convention of TWAS was held in Beijing, China, in September and was attended by Dr R.P. Jayewardene Director General.

4.4 CONTINUED SUPPORT TO SAREC-NARESA RESEARCH CO-OPERATION

The research officer of SAREC, Dr C.G. Thornstrom visited Sri Lanka from 19-30 March '87 to review activities supported by SAREC.

Following this visit, SAREC agreed to consider the following requests during the course of the year.

- 1) Purchase of periodicals for university libraries
- 2) Purchase of a paper cutter for NARESA
- 3) Graduating equipment to Moratuwa University
- 4) Science Indicators Project

4.4.1 NARESA - SAREC Zoological Survey of Sri Lanka

Two meetings were held during this year 1987. The Advisory Committee approved two research projects for this year and the position of grants is given in Table 1.

Other Activities

Seminars

Review seminar on the Zoological Survey of Sri Lanka was held on 26th March 1987 from 2.00 to 4.30 p.m. at Post Graduate Institute of Agriculture, Peradeniya.

A progress review seminar was held on 30th December '87 at the NARESA Auditorium. Papers were presented at the

seminar on the work carried so far on their projects by all the grantees of the ZSSL.

Two sets of maps (1 inch to a mile) with 10 km grids super-imposed on them were purchased from the Survey Dept. for the use of the researchers.

The Advisory Committee also decided to publish the set of reprints on the Freshwater Fauna of Sri Lanka collected by Prof. C.H. Fernando.

Meeting

A meeting of the Ad Hoc Editorial Committee of the publication 'The Freshwater Fauna and Fisheries of Sri Lanka' was held on 29th of May '87.

4.4.2 NARESA - SAREC Inland Fisheries Research Programme

One research grants is in progress. The position of this grant is given in Table 1.

Seminar

A review seminar on Inland Fishery Research was held on 23rd of March 1987 from 9.00 a.m. to 1.30 p.m. at the Ruhuna University.

4.4.3 NARESA - SAREC Buffalo Research Programme

Seven meetings were held by the research Advisory Committee in 1987 under this programme. The position of grants is given in Table 1.

The committee's attention was drawn to the following items.

- (1) Preparations of a monograph of the Indigenous Buffalo
- (2) Collection of reports, papers and thesis originating from the Buffalo Research Programme for an external evaluation to be commissioned by SAREC.
- (3) Mr Lionel Jayathilake as M.P. for Kuliypitiya had made a request to enlarge the water tank at the NARANGALA Buffalo Research Station to supply water to farmers in the area.

As this was likely to interfere with the research activities at Narangala an interview was held with Mr Jayathilake on 10.6.87 at the Ministry of Educational Services with the following were present.

DG/NARESA, Chairman/NLDB, Prof. B.M.A.O. Perera,
Dr M.C.L. de Alwis and DSA/NARESA.

It was decided that alternative suggestions be considered and a report prepared on the subject.

Seminar

A review seminar on Buffalo Research was held on 26th of March '87 from 9.00 a.m. to 1.30 p.m. at the Postgraduate Institute of Agriculture Auditorium, Peradeniya.

A review seminar was held under the Chairmanship of Prof. M.R. Jainudeen of University of Pertanian, Malaysia on 3rd December '87 at the Veterinary Research Institute, Cannoruwa. He participated at this seminar as an external evaluator to review the buffalo research programme.

4.5 CSC-SCIENCE MANAGEMENT AND MULTIDISCIPLINARY RESEARCH PROGRAMME

An International Workshop on Management and Evaluation of Multidisciplinary Research was jointly sponsored by the Commonwealth Science Council and NARESA was held 9-13 March 1987 at the NARESA Auditorium. 16 foreign participants attended the workshop.

4.6 UNESCO/NARESA - SCIENCE STATISTICS AND INDICATORS PROJECT

The preparation of report on the first phase of the project funded by UNESCO and NARESA has been completed and the second phase is underway.

4.7 US - ISRAEL CO-OPERATIVE DEVELOPMENT RESEARCH PROGRAMME

Details of the above programme were circulated to universities and other relevant institutions. Eleven pre-proposals submitted by scientists were forwarded to US-AID Office in Colombo for transmission to the authorities in Washington.

5.0 SAARC PROGRAMME ON SCIENCE AND TECHNOLOGY

- a) The Chairmanship of the Technical Committee on Science and Technology (The national focal point of which is Sri Lanka) was transferred from Sri Lanka to Bangladesh with effect from 1 August 1987.
- b) Under this programme, two scientists Dr (Mrs) N. Peiris and Dr A.M. Mubarak from CISIR visited laboratories in Pakistan in September 1987. The following workshops were held under the programme.

Workshop

Workshop on "Methods & Techniques in Experimental Geophysics for Ground Water Exploration" was held in Hyderabad, India in October 1987.

Workshop on "Women in Science and Technology" was held in Islamabad, Pakistan in November 1987.

- c) Correspondance was continued with the focal points in India and Nepal regarding several other training programmes/visits of Sri Lanka personnel. Although necessary arrangements were made by the host countries, the visits could not be finalised due to non-availability of funds.
- d) The 5th meeting of the Technical Committee on S&T was held in Dhaka in October 1987. Sri Lanka was not represented at this meeting due to the very short notice given.

6.0 TRAINING OF LABORATORY TECHNICIANS

- a) Co-ordination of the Sri Lanka/U.K. programme of training of lab technicians was handed over to NARESA by the British Council, who have been handling the programme since 1985.
- b) The closing session of the 1987 workshop was held at NARESA in August and the trainees, foreign experts and British Council officials were present.
- c) A questionnaire was posted to all participants of the workshop conducted by the British Council in 1987, and thirty seven responses have been received.

d) Association of Laboratory Technicians

A draft constitution for a Professional Association of Laboratories Technicians was prepared in consultation with Prof. R.S. Ramakrishna (Univ. of Colombo), Dr U.P. de S. Waidyarathna (British Council) and representatives of the technicians.

7.0 MERIT AWARDS FOR OUTSTANDING RESEARCH ON NARESA GRANTS

The committees recommended the following scientists for the NARESA merit award.

- a) Prof. M.A. Pemadasa (Biological Sciences)
- b) Dr E.R. Jansz and Mr E.V. Packiasothy (Chemical Sciences)
- c) Prof. C.B. Dissanayake (Chemical Sciences)
- d) Prof. W.D. Ratnasooriya (Medical and Veterinary Sciences)

8.0 THE SRI LANKA SCIENTIFIC AND TECHNICAL INFORMATION CENTRE (SLSTIC)

The Sri Lanka Scientific and Technical Information Centre (SLSTIC) completed its 10th year in 1987. SLSTIC continued its documentation, information and library services.

8.1 Working Committee on Scientific and Technical Information

The Working Committee which functioned as the National ASTINFO Advisory Group and the Sri Lanka National UNISIST Committee had 9 meetings during 1987. The following persons served in the committee.

Dr N.W.N. Jayasiri (Chairman), Mr N.T.S.A. Senadhira
Mr G.P.S.H. de Silva, Mr Dayananda de Silva,
Mrs I. Unamboowe.

The committee was assigned the task of formulating a national policy for scientific and technical information. The Committee had special meetings to discuss policy formulation. Following persons were coopted to the Committee for this purpose.

Mr M.S.U. Amarasiri, Mrs Manel Abeyratna, Dr D. Wijewardene,
Dr F.S.C.P. Kalpage.

8.2 COMMITTEE ON ADAPTATION OF NATIONAL LANGUAGE IN
INFORMATION TECHNOLOGY (CANLIT)

This Committee which was appointed by the Authority to study how Sinhala and Tamil Languages could be used in modern information technology, terminated its work in September, 1987. This 18 member Committee had five meetings in 1987.

The Committee prepared two digests : (a) The evolution of the Sinhala script by Prof. P.E.E. Fernando and (b) Standardization of the Tamil Script by Dr A. Kandiah. The Committee also prepared the following schemes :

- (a) Alphabetical order of the Sinhala Characters
- (b) Scheme for transliteration of the Sinhala script.

8.3 CO-ORDINATION WITH LIBRARIES IN SRI LANKA

During 1987 SLSTIC participated in the following library networks.

Sri Lanka Scientific and Technical Information Network
(SLSTINET)

Membership of SLSTINET was increased to 100. A meeting of the librarians participating in the Network was held on 24 July 1987. 57 librarians participated in the meeting. Sub-committees were appointed by SLSTINET to

- (a) revise the Co-operative Acquisition Plan and to
- (b) formulate a common bibliographic format. The Sub-committee met on 27 August 1987.

Agricultural Information Network (AGRINET)

SLSTIC continued to provide secretarial services for AGRINET. 24 libraries participated.

Health Science Literature, Library and Information
Network (HELLIS)

Participated in the meeting of HELLIS which were organized by the Ministry of Health.

Renewable Energy Resources Information Network
(RERINET)

SLSTIC co-ordinated the activities of the network. A bulletin on current contents of renewable energy journals was compiled for the network.

8.4 CO-ORDINATING WITH INTERNATIONAL ORGANIZATIONS

SLSTIC served as the focal point in Sri Lanka for the following international networks and international organizations.

8.4.1 Regional Network of the Exchange of Information and Experience in Science and Technology in Asia and Pacific (ASTINFO)

The fifth ASTINFO Consultative meeting was held in Bangkok in October 1987.

UNESCO provided US \$ 10,000 under ASTINFO Programme to improve hardware facilities of SLSTIC so that it could widen and strengthen its information services.

8.4.2 Regional Information Network for South and Central Asia (RINSCA)

A Regional meeting of the co-ordinators of RINSCA was held at NARESA from 21-24 October 1987.

8.4.3 Commonwealth Regional Renewable Energy Information System (CRRERIS)

CSIRO, Australia which functioned as the Network Centre for CRRERIS withdrew its networking activities. However, CSIRO, Australia continued with the work on the Regional Renewable Energy Index. SLSTIC continued to make contributions to the Regional Index and to the Regional Directories.

8.4.4 National Technical Information Service (NTIS)

SLSTIC continued to serve as the co-operating agency for NTIS of the US Dept. of Commerce.

8.5. CO-OPERATIVE ACTIVITIES

8.5.1 Union Catalogue of Scientific & Technical Books (UNICAST)

Compilation of the computerized Union Catalogue (UNICAST) was continued with the co-operation of the libraries. Information on 3950 books were received during 1987. 44 libraries participated in the UNICAST Programme.

8.5.2 Union List of Scientific and Technical Periodicals (UNICAST)

Up dating the Union list was continued.

8.5.3 Selective Dissemination of Contents Pages (SDCP)

Selective Dissemination of Contents Pages service was organized with the assistance of 24 agricultural libraries to disseminate contents pages of 316 agricultural periodicals among 290 scientists.

8.6 INFORMATION AND DOCUMENTATION SERVICES

8.6.1 National Scientific Reports Collections

The Reports Collection was organized to collect published and unpublished reports. 198 local reports, 24 foreign reports on energy and 122 annual reports were added to the repository. Total number of reports in the collection increased to 4479.

8.6.2 Sri Lanka Science Index

145 issues of local periodicals, important articles in local newspapers were indexed during 1987. Sri Lanka Science Index Vol. 8, No 3&4, 1984 were issued.

8.6.3 Inter-Library Loans

SLSTIC served as the coordinating centre for inter-library loans by channelling requests to appropriate libraries. The requests that could not be fulfilled were directed to the British Library Document Supplies service. 60 local requests and 2 international requests were handled.

8.7 Technical Services

8.7.1 Photocopying Service

SLSTIC operates photocopying and photocopy procurement services for libraries and scientists. 3121 official and 137 personal requests for 121,844 impressions were satisfied. The income from personal requests was Rs. 11,910/-

8.7.2 Microfiche Service

A microfiche reader-printer was acquired. Bureau services for microfiche making and duplication were undertaken. 20 requests were executed for making 1191 silvermasters and 2489 diazofiche. Total income from microfiche services was Rs. 96,744.

8.7.3 Desk-top printing

SLSTIC operated a desk-top printing machine to duplicate documents at low-cost. 161 printing jobs for 321,150 impressions were executed. Income received from outside jobs was Rs. 35,747/-

8.7.4 NARESA Press

Services were offered for printing scientific publications at the NARESA Press. 7 major printing jobs were executed. Value of jobs executed was estimated to be Rs. 378,906/-.

8.7.5 Computer Service

A WANG APC microcomputers was installed. This machine was used to test and develop the CDS/ISIS library software. Demonstrations were arranged for library personnel who visited SLSTIC to study the package.

UNESCO designated SLSTIC as a software distribution centre. Software package was copied for the institutions which signed agreements with UNESCO. 19 institutions were provided with copies of ISIS.

Consultation services for the installation of ISIS package were provided to a several libraries. Copies of necessary documents were provided.

WANG 2200 MVP mini computer was used to compile and maintain the three local databases: UNICAST, UNILIST and SLSI. Print-outs for offset printing of database products were obtained. Word Processing facilities for compilation of reports were provided.

8.7.6 Audio-visual Service

A pool of AV equipment including video, film, slide, overhead projectors, video camera, projection systems and conference communication systems were maintained for hiring out to scientific organizations. AV facilities were provided for all NARESA seminars.

8.8 Training, Education and Seminars

8.8.1 Seminars

(a) Regional Meeting of the National Co-ordinate of the Regional Information Network of South and Central Asia (RINSCA)

Above seminar was held from 21-24 October 1987 at NARESA. Representatives from 6 countries and officials from UNESCO participated.

Mr L.C.A. de S. Wijesinghe, Addl. Director General served as the conference Chairman and Mr N.U. Yapa, Director Information functioned as the rapportuer.

(b) Seminar on Sources of Scientific Information

The seminar was held on 15 June 1987 at NARESA, 27 Research Assistants participated. Dr R.P. Jayewardene, Director General presided.

(c) Workshops on CDS/ISIS Software

The Workshop was held from 1-5 June 1987. 15 persons participated. 12 micro computers were organized. Mr A.L.M. Abdul Gaffor, Head, Statistics Unit, Marga Institute with the Assistance of Mr N.U. Yapa Director Information and Mr B.G.N. Kumarasinghe, Documentalist conducted the workshop.

The workshop was repeated from 1-5 December 1987. 14 persons participated. 6 computers were organized. Mr N.U. Yapa with the assistance of Mr Kumarasinghe and Miss I.R. de Silva conducted the Workshop.

Both workshops were sponsored by IDRC.

(d) Workshop on Writing Scientific Papers

A 2 day Workshop on Writing Scientific Papers was held on 3-4 April, 1987 for Junior Scientists working on post-graduate programmes.

8.8.2 Training

4 batches of Library Science students from the Sri Lanka Library Association followed 2 weeks inservice training during August/September 1987. Four librarians from Maldives had a one-week in service training in November 1987.

8.8.3 Lecture Programme

Mr N.U. Yapa, Director Information delivered following lectures.

- " Scientific Indexing and Abstracting Services " at the seminar for special librarians organized by the National Library Services Board on 87-02-06.

- " Library Networks " at the seminar on librarianship organized by the National Library Services Board on 87-07-06.
- " Cataloguing of AV materials " at the seminar on AV Librarianship organized by the Sri Lanka Library on 87-03-06.
- " Use of Computers in Libraries " at the seminar on Education Librarianship organized by the National Institute of Education on 87-09-27.

8.9 SURVEYS AND STUDIES

8.9.1 Studies

Following surveys were conducted.

- The Survey on Scientific and Technical Journals publishing activities in Sri Lanka by Mrs N. Amarasuriya.
- A Study on Women in S&T in Sri Lanka - by Mrs N. Amarasuriya.
- Manpower Survey of Library, Documentation and Information Personnel - by Mr N.U. Yapa and Mrs N. Amarasuriya.

8.10 PUBLICATIONS (SCIENTIFIC)

8.10.1 Journal of the National Science Council

Publishing of Vol. 14 No. 2 and Vol. 14 No. 1 was completed.

Editing of Vol. 14 No. 2, Vol. 15 Vol. No. 1 and Vol. 15 No. 2 was completed and these issues were handed over to the NARESA press for printing.

Vol. 13 No. 2 and Vol. 14 No. 1 were distributed both locally and abroad.

A meeting of the Editorial Committee was held on 18th December 1987.

8.10.2 Research Grants Scheme - Research Projects

Completed 1970 - 1986

An updated version of the publication on completed research grants was published.

8.10.3 Vidurava - Science News Bulletin

English Issues :

Publishing of Vol. 10 No. 1 on "Adulteration of Food" was completed.

Sinhala Issues :

Translating and publishing of Vol. 9 No. 1 on "Mangroves" was completed.

9.0 STAFF PUBLICATIONS

Amarasuriya, N. (1987). 'Development through information networks in the Asia-Pacific region'. Information Development. Vol. 2, No. 2. pp. 87-94.

Amarasuriya, N. (1987) 'Publishing scientific and technical journals in Sri Lanka'. Report of a National Survey. NARESA, Colombo.

Amarasuriya, N. (1987). 'Scientific publishing in the Third World: The development of manpower resources'. In Proceedings of the 5th International IFSEA Conference. Hamburg, FRG.

Amarasuriya, N. (1987). 'Science and technology for women'. In the National Report on the Status of Women.

Yapa, N.U. (1987). 'Use of computer in libraries in Sri Lanka'. In Third-six years of service. Colombo: public library 1987. pp. 49-55.

Liyanage, S. (1987). 'Lessons from Sri Lanka'. Science and technology planning. Science and Public Policy. Vol. 14 (2) pp. 59-70.

Liyanage, S. and de Silva M.A.T. (1987). 'State of S&T in Sri Lanka', NARESA, Colombo.

Table I

Local Grants Sponsored by NARESA - 1987

Field Position	Agriculture & Animal Husbandry	Biological Sciences	Chemical Sciences	Medical & Veterinary Sciences	Physical & Engineering Sciences	Social Sciences	Science Education
No. of Functional Grants	10	32	43	18	14	29	97
No. of Applications received for 1988	26	14	24	27	12	29	-
Amount requested by applications for 1988	2944196/-	1092814/-	2029672/-	3441386/-	648895/-	1310644/-	-
No. of grants awarded in 1987	02	11	10	10	06	-	02
Sum allocated during 1987	213700/-	777250/-	549400/-	609000/-	353910/-	334091/-	86950/-
No. of grants completed	05	13	05	02	-	06	01
No. of grants withdrawn	-	01	-	-	-	04	-
No. of grants terminated	-	01	01	02	-	04	-
Copies of thesis (P.G) received	-	03	04	02	-	-	-
No. of registered for P.G training during 1987	-	01	05	02	02	04	-
No. of RA's appointed during 1987	-	06	12	03	04	05	-
No. of communication and publications received	-	06	19	04	21	06	-

SOCIAL SCIENCE

THE STATUS OF RESEARCH GRANTS DURING 1987

Year of Award	Proposed Duration	NO. of grants in operation during 1987	Status of grants during 1987		
			Completed	Terminated	Withdrawn
1983	1 yr.	1	-	-	1
	2 yrs.	2	-	1	-
1984 RG Grants	1 yr.	8	3	1	-
	2 yrs.	1	-	-	1
1984 SAREC Grants	2 yrs.	2	-	1	1
1985	1 yr.	2	-	1	1
	1½ yrs.	1	-	-	1
	2 yrs.	1	1	-	-
1986	1 yr.	4	2	-	2
	2 yrs.	1	-	-	1
	3 yrs.	2	-	1	1
1987	1 yr.	12	-	-	2
	2 yrs.	5	-	-	5
	3 yrs.	2	-	-	2

STATUS DURING 1987
SOCIAL SCIENCE GRANTS

Ongoing Grants

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RGB/83/51	Mrs. A.K. Peeris 'Dilantha' Hokandara Road Talawatugoda (M.Phil Student) Fac. of Education Univ. of Colombo.	Measures that may be adopted under the special educational programme for the socialisation of the educable mentally handicapped children of school going age in Sri Lanka.	1983 1 year	2750.00
RG/84/SS/3	Mrs. S. Senadeera 86/41, Kandy View Garden George E. de Silva Mawatha, Kandy. (Ph.D. Student -Edu. Univ. of Colombo).	Arts education curriculum in the universities of Sri Lanka: its reorganization & innovations.	1984 2 years	3500.00
RG/84/SS/7	Mr. S.R. Hettihewa 'Hevana' Raigamtuduwa Bandaragama. (M.Phil. student-Edu. Univ. of Colombo)	An investigative study of the nature of the informal education imparted to youth by youth societies in Sri Lanka (in Sinhala)	1984 1 year	2500.00
RG/84/SS/8	Mrs. K.P. Wimaladharm 'Swasthika' Asgiriya Gampaha (M.Phil student-Edu. Univ. of Colombo).	A study of the wastage of human resources in the field of education in Sri Lanka and strategy for its prevention; with special reference to the district of Anuradhapura. (in Sinhala)	1984 1 year	2500.00
RG/84/SS/14	Mrs. N.P.S. Sendanayake 'Senani' Galpatha, Kalutara (M.Phil student-Edu. Univ. of Colombo).	A study of the Educational problems of mentally handicapped children in Sri Lanka and the development of their motor ability - a study in relation to the sukthitha school at Galpatha for mentally handicapped children and the school for special children at Chitra Lane, Colombo 5. (in Sinhala)	1984 1 year	2500.00
RG/84/SS/16	Mr. S.Mataraarachchi 'Ranagiri' Galahitiya, Walasmulla. (M.Phil student-Edu. Univ. of Colombo)	An analytical study of the administrative role of the principal in Sinhala medium central colleges and senior schools in Sri Lanka (with special reference to the Hambantota district) (in Sinhala)	1984 1 year.	2500.00
SAREC/13/ SSR/4	Mr. B.Gajameragedara Lecturer Dept. of History Univ. of Peradeniya Peradeniya.	Development Strategies Foreign Aid and Foreign Policy of Sri Lanka since 1965	1984 Commencement of the project on 1.1.85. 2 years.	10000.00
RG/85/SS/1	Mr. L. Ranwatta Circuit Inspector Kangikkuliya Mugunuwatawana Halawata.	An investigation into the supervision of teaching in the schools in Sri Lanka to highlight its weakness (in Sinhala)	1985 1 year	5410.00

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RG/85/SS/4	Mr. K.G. Guruge Asst. Lecturer Dept. of Geography Univ. of Kelaniya.	A study of the influence of tourism on the traditional fishing villages in the western coast of Sri Lanka (in Sinhala)	1985 1 year 6 mths.	5000.00
RG/86/SS/1	Mrs. C.W. Divisekera Lecturer in Economics Dudley Senanayake Technical College Warakapola.	The Impact of State Industrial Policy on the Economic Development of Sri Lanka 1948 - 1982	1986 3 years	30000.00
RG/86/SS/2	Dr. S.T. Hettige Lecturer Dept. of Sociology Univ. of Colombo.	Social network and exchange of favours among higher officials in formal organizations in Sri Lanka.	1986 1 year	20,900.00
RG/86/SS/6	Mr. M.K.D. Dharmadasa Lecturer Training College Maharagama.	The progress of blind students in special schools and the uniform education system- a comparative assessment. (in Sinhala) 2 years.	1986 2 years	9,500.00
RG/86/SS/8	Dr. N.K.Dangalle Mr. M.B. Wijedasa Asst. Lectures Dept. of Geography Univ. of Kelaniya.	Comparative study of 'common services' in selected 'estate' settlement and 'village' settlement in central Sri Lanka. (in Sinhala)	1986 1 year	8000.00
RG/87/SS/2	Mrs. K.S. Peiris Dept. of Sociology Fac. of Arts Univ. of Colombo.	Development of the Western medical profession in Sri Lanka	1987 1 year.	5500.00
RG/87/SS/3	Dr. Chandra Wickramanagamage Head/Dept. of Pali & Buddhist Studies Univ. of Sri Jayewardenepura Nugegoda.	Sinhala Buddhist Iconography and Iconometry (in Sinhala)	1987 1 year	36,250.00
RG/87/SS/4	Dr. P.E.E. Fernando. 759, Kotte Road, Sri Jayewardenepura Univ. Nugegoda.	An edition of all the inscriptions of the Indian Emperor Asoka discovered up to 1970, in Sinhalese, including 1. texts of all inscriptions, 2. translations of the inscription into Sinhalese 3. notes clarifying knotty points. 4. a glossary of all the words in the inscriptions 5. introduction.	1987 1 year	18,500.00
RG/87/SS/6	Mr. S.O. Fernando K/Govinna M.V., Govinna.	Influence of Geographical variations on the educational process. (in Sinhala)	1987 2 years.	13,300.00
RG/NORAD/ 37/SS/7	Mr. Sarath K. Jayakody Lecturer Dept. of Geography Univ. of Kelaniya.	An appropriate agroecological Land use system for an effective watershed management. A proposal for the Kirindi Oya Catchment area. (in Sinhala).	1987 3 years	27,000.00
RG/NORAD/ 87/SS/8	Dr.(Mrs)A. Wickramasinghe No.4, Dumbara Campus Polgolla. Dept. of Geography Univ. of Peradeniya.	Ecological impacts of Hill-country farming systems.	1987 1½ years	56,700.00

Ref. N.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RG/87/SS/9	Mr. D.U.A.Galagedera Head, Dept. of Industrial Management Univ. of Kelaniya.	Application of linear programming technique to the resource allocation problem of public universities in Sri Lanka: A case study - with special reference to University of Kelaniya.	1987 1 year.	9580.00
RG/87/SS/10	Mrs. V.Wickramaratne 12, Melville Lane Samuddra Mawatha, Panadura. Dept. of Education Open Univ., Nawala.	A mental health approach to counselling intervention in school settings (A study of Pilot programmes implemented in the city of Colombo and its suburbs)	1987 3 yrs. 1987 3 yrs.	9541.00 9541.00
RG/87/SS/11	Mr. K.A.G. Jayathillake 'Sisila' Bandarawatte, Kadawata, Lecturer Sariputtha College of Education, Nittambuwa.	An investigation of the nature of neuratic disorders found in secondary school children in Sri Lanka. And the effect of such disorders on their educational performances.	1987 2 yrs	7760.00
RG/87/SS/12	Mr. Rohana Ulluwishewa Dept. of Geography Univ. of Sri Jayewardenepura, Nugegoda.	Traditional Buffalo Grazing system in Sri Lanka: Limitations and consequences. A case study: Kurunegala District.	1987 1 year	7925.00
RG/87/SS/13	Dr.(Mrs)W.A.R. Wijeratne Lecturer Head/Education Sec. Open Univ., Nawala. Prof.(Mrs)N.B. Ratnasiri Open Univ., Nawala.	A survey of educational needs and problems of distance learning students in Sri Lanka.	1987 1 year	23320.00
RG/87/SS/14	Dr. P.C.L. Goonatilake. Senior Lecturer Dept. of Industrial Management Univ. of Kelaniya.	Evaluation of Industrial Engineering knowledge base in the manufacturing industry in Sri Lanka, and its impact on industrial productivity.	1987 1 year	9900.00
RG/87/SS/15	Mr. D.P. Wickramasinghe Asst. Lecturer Dept. of Economics, Univ. of Ruhuna.	Capital budgeting decisions of public enterprises in the manufacturing sector of Sri Lanka: a detailed study in project planning and evaluation at selected 15 public corporations.	1987 2 yrs.	27,100.00
RG/87/SS/16	Mr. A.N. Ahamed. Mr. P. Sivarajah Dept. of Agric. Economics Eastern Univ. Chenkalady.	An analysis of rural markets in the Batticaloa and Amparai districts.	1987	34,350.00
RG/87/SS/17	Mr. K.S. Senaratne 53, 'Geethanjali' Boralesgamuwa. H/Papiliyana Sunethradevi Vidyalaya (Boys) Papiliyana.	Historic place names and village names in the Matara District	1987	5050.00
RG/87/SS/18	Dr.Darin Charitha Gunasekera Wiros Lokh Inst., 81 1/A, Isipatana Mawatha Colombo 5.	Estimation of National Wealth in Private Sector Capital Market & Investments Accounts.	1987 1 year	62,500.00

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RG/87/SS/19	Dr. K.Roopamoorthi. Mr. S.T.B. Rajeswaran Dept. of Geography Univ. of Jaffna, Jaffna.	Socio-economic survey in Navanthurai (A case study)	1987 1 year.	14,000.00
<u>Terminated Grants</u>				
RGB/83/46	Mrs. Y.Balapatabendi 2/49, Mahalwarawa Pannipitiya (Ph.D. student) Fac. of Education Univ. of Colombo.	An inquiry into the post-Secondary Non-University Education in Sri Lanka.	1983 2 yrs.	12000.00
RG/84/SS/2	Mrs. A.R.P.Gunawardene 70, Jambugaswulla Road Nugegoda (Post-graduate student) Fac. of Education Univ. of Colombo.	A critical study of the non-formal educational activities of the Sarvodaya Movement in some selected villages of Sri Lanka.	1984 1 year	2500.00
SAREC/13/ SSR/7	Prof. W.D. Lakshman Prof. of Economics Dept. of Economics Univ. of Colombo	Industrial Development in Sri Lanka 1960-82: Policies, Problems & Socio-Economic Impacts	1984 2 yrs.	25000.00
RG/85/SS/5	Mrs. Padma Batatota 132, Municipal Council Quarters Anuradhapura. Asst. Teacher A/Balika Maha Vidyalaya Anuradhapura.	To study the socio-economic factors responsible for the education in Sri Lanka being	1985 1 year	5000.00
<u>Withdrawn Grants</u>				
RGB/83/62	Mr. S. Berugoda Dy. Surveyor-General Surveyor General's Office P.O. Box 506 Colombo.	Undivided lands in Sri Lanka and land productivity.	1983 2 yrs.	21,930.00
RG/86/SS/4	Miss. A. Sinnathamby Temporary Asst. Lecturer Dept. of Economics Univ. of Jaffna Jaffna.	Vegetable production and marketing in Jaffna district	1986 3 yrs.	9900.00
RG/87/SS/5	Ms. Lalitha Gunawardene No. 41-2/2, Gregory's Road Colombo 7. Mahaweli Economic Agency No. 2, Police Park Terrace Colombo 5.	Some aspects of the backwardness of Agriculture in the Paddy Sector	1987 8 mths.	14,288.00

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
<u>Completed Grants</u>				
RG/84/SS/9	Mr. P.M.U. Pathiraja Walauwatta Kudagalgamuwa Kurunegala	An analytical study of the vocational educational segment in the syllabus of the training courses (Sinhala medium) in the teacher training colleges in Sri Lanka. (in Sinhala).	1984 1 year	2500.00
RG/84/SS/5	Mr. M.M. Jayawardana Programme Asst. Economics I Project Division, Dept. of Agri. Peradeniya. M.A. Student-Econ. Univ. of Peradeniya.	Development feasibilities of the villages under minor tanks in Sri Lanka.	1984 1 year	3500.00
RG/84/SS/17	Mrs. Gothami Fernando 'Yamuna' Parakrama Road Tangalle. (M.Phil student-Edu. Univ. of Colombo).	Population Education in school curricular	1984 1 year.	2500.00
RG/85/SS/7	Mr. W. Chandrasiri 'Indunil' Koswatta Road Polgasovita. Plan Implementation Officer Min. of Plan Implementation (M.A. Student, Univ. of Sri Jayewardenepura).	A community development programme for shanty settlements in the city of Colombo; An action cum research programme.	1985 2 yrs	5000.00
RG/86/SS/5	Dr. L.S. Perera Mr. S. Rupasinghe Lecturers Fac. of Education Univ. of Colombo.	An assessment of the academic abilities of students studying at junior secondary level in Sri Lanka.	1986 1 year	15,600.00
RG/86/SS/7	Mrs. Ranika Ratnayake Asst. Lecturer Dept. of Geography Univ. of Kelaniya.	Difference in family sizes in villages and urban societies in Sri Lanka -analysis (in Sinhala) 1 year.	1986 1 year	4600.00
<u>Cancelled Grants</u>				
RG/87/SS/1	Mr. M.H.B. Herath Banda Lecturer Dept. of Economics Univ. of Kelaniya.	Cost of production of small scale sugger cane cultivation in Sri Lanka.	1987 1 year	13,600.00

THE STATUS OF RESEARCH GRANTS DURING 1987

AGRICULTURE & ANIMAL HUSBANDRY

Year of Award	Proposed Duration	No. of Grants	Status during 1986			
			Completed	Terminated	Continuing	Withdrawn
1983	1 year	3	3	-	-	-
	2 years	4	4	-	-	-
	3 years	2	2	-	-	-
1984	1 year	4	4	-	-	-
	2 years	2	2	-	-	-
	3 years	1	1	-	-	-
1985	1 year	1	1	-	-	-
	2 years	1	1	-	-	-
	3 years	3	-	-	3	-
1986	1 year	2	-	-	2	-
	2 years	3	-	-	3	-
	3 years	-	-	-	-	-
1987	1 year	1	-	-	1	-
	2 years	-	-	-	-	-
	3 years	1	-	-	1	-

AGRICULTURE & ANIMAL HUSBANDRY GRANTS

Ongoing Grants

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RG/85/Ag/2	Dr. M.A. Pemadase Dept. of Botany Univ. of Ruhuna Matara. Mrs. S.F.B.N. Gunawardena Fac. of Agriculture Univ. of Ruhuna.	Studies on the Rhizobium inoculation and nutrient requirements of some under exploited leguminous crops.	1985 3 yrs.	174,400.00
RG/85/Ag/3	Mr. P.J. Wickremasinghe Dr. P. de A. Gurusinghe Mr. I.M.H.B. Herath Dept. of Minor Export Crops Research Station Metale.	Genetic improvement and cultural practices in Betel.	1985	156,000.00
RG/85/Ag/5	Dr. I.A.U.N. Gunatilake Dept. of Botany Univ. of Peradeniya Peradeniya.	Contribution of soil biological processes and environment to soil fertility in a rainforest and a <u>Hevea</u> rubber plantation.	1985 3 yrs.	225,000.00
RG/86/Ag/1	Dr. Ananda N. Jayakodi Dept. of Agric. Chemistry Univ. of Peradeniya Peradeniya.	Effect of incorporation of coir Dust, Paddy Husks and Saw Dust on Nitrogen and phosphorus availability in soils.	1986 2 yrs.	167,170.00
RG/86/Ag/2	Dr. I.V.S. Fernando Dept. of Zoology Univ. of Kelaniya Kelaniya.	Evaluation of the efficiency of protection of Snake Gourds from Melonfly attack using-polythene covers.	1986 1 year	7000.00
RG/86/Ag/3	Ms. A.M.K. Hemalatha Mr. D.B.T. Wijeratne Ms. S.F. Hussain Div. of Food Technology CARI, Gannoruwa.	Investigation of Post Harvest losses (Nutritional inclusive) in rice	1986 1 year	75,000.00
RG/86/Ag/4	Dr. P.A.J. Yapa. Biochemistry Sec. Rubber Research Inst. Agalawatte.	Role of aquatic plants in effluent treatment systems in rubber plantation	1986 2 yrs.	45,600.00
RG/86/Ag/5	Mrs. S.F.B.N. Gunawardene Fac. of Agriculture Univ. of Ruhuna Matara.	Studies on the use of organic matter in crop production.	1986 2 yrs.	51,600.00
RG/87/Ag/1	Mr. P. Krishnarajah Soil Conservation Div., Dept. of Agriculture Peradeniya. Mr. L.A. Wickramasinghe Land & Water Use Div., Dept. of Agriculture Peradeniya.	Monitoring of Sediment Movement pattern in Cultivated lands in Victoria Reservoir Catchment Area.	1987 3 yrs.	388,000.00

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RG/87/Ag/2	Mr. M.D. Fernando Mr. K.B. Palipane Rice Processing Research & Development Centre Jayanthi Mawatha Anuradhapura.	Identification of insect pests of stored paddy and rice and study of their population build up pattern in different agroclimatic zones of Sri Lanka	1987 1 year	26,700.00
RG/87/Ag/3	Dr. I.A.U.N. Gunatilleke Dept. of Botany Univ. of Peradeniya Peradeniya. Dr. M.K.S.A. Samaraweera Rubber Research Inst., Agalawatte.	Nutrient Cycling in Lowland Forest & Rubber Plantation in Sri Lanka.	1987 2 yrs.	477,500.00
<u>Completed Grants</u>				
RG/83/1	Dr. M.A.S.K. Ranasinghe Dept. of Agric. Biology Fac. of Agriculture Univ. of Peradeniya Peradeniya.	Investigation of the botanicals with a view to their potential application as pest control agents in Sri Lanka.	1983 3 yrs.	150,200.00
RG/84/Ag/3	Mr. G.A. Gunatilake Mr. W.M. Jayatilake Bandara Regional Agricultural Research Centre, Bombuwela.	Effect of Iron Toxicity on Rice Cultivation	1984 3 yrs.	102,050.00
RG/84/Ag/4	Dr. P.A.J. Yapa Head/Biochemistry Sec. Rubber Research Inst., Agalawatta.	Role of aquatic plants in effluent treatment systems in rubber plantation.	1984	40,000.00
RG/84/Ag/7	Dr. P. Shivanathan Central Agricultural Research Inst., Gannoruwa Peradeniya.	A checklist of pest and diseases of Sri Lanka	1984 1 year	56,000.00
RG/85/Ag/4	Mr. M.H. Mendis Mr. P.K. Samarajeewa Mr. K.P.U. de Silva CARI Gannoruwa.	Utilization of tissue culture technology in root and tuber crop improvement.	1985 2 yrs.	192,000.00

THE STATUS OF RESEARCH GRANTS DURING 1987

BIOLOGICAL SCIENCES

Year of Award	Proposed Duration	No. of grants in operation during 1987	Status of grants during 1987			
			Completed	Terminated	Withdrawn	Ongoing
1982	1 year 2 years 3 years	02	01	-	-	01
1983	1 year 2 years 3 years	02 07	01 04	- 01	- -	01 02
1984	1 year 2 years 3 years	03 05	02 01	- -	- -	01 04
1985	1 year 2 years 3 years	03 01 04	02 - -	- - -	- - -	01 01 04
1986	1 year 2 years 3 years	05 04 01	01 - -	- - -	- - -	04 04 01
1987	1 year 2 years 3 years	01 04 06	- - -	- - -	- - 01	01 04 05

BIOLOGICAL SCIENCES GRANTS

Ongoing Grants

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RG/84/B/01	Prof. W.E. Ratnayake Dept. of Zoology Univ. of Sri Jayewardenepura Nugegoda.	A further study of the mutants of <u>Drosophila ananassae</u> (isolated in the earlier project).	1984 3 yrs	60460.00
RG/84/B/02	Dr. J. Jinadasa Dept. of Zoology Univ. of Sri Jayewardenepura Nugegoda.	Biology and the fishery of the pony fisher of the Bolgoda Lagoon, Sri Lanka.	1984 3 yrs.	70560.00
RG/84/B/05	Dr. J.P. Edirisinghe Dept. of Zoology Univ. of Peradeniya Peradeniya.	Studies on the field release of the parasites <u>Evania appendigaster</u> & <u>Tetrastichus hagenowii</u> for the control of <u>Periplaneta americana</u> , the American cockroach.	1984 3 yrs.	73870.00
RG/84/B/07	Rev. Dr.L.H. Cremer Dept. of Botany Eastern Univ. of Sri Lanka Chenkaladi.	Taxonomic studies on the flora of the southern part of Pollonnaruwa District.	1984 3 yrs.	82023.00
RG/85/B/02	Dr.(Mrs) M.V.E. Attygalle Dept. of Zoology Univ. of Sri Jayewardenepura Nugegoda.	Study of blood physiological properties in five species of cultivated fish (3 tilapia sp. common carp & grass carp).	1985 3 yrs.	79700.00
RG/85/B/05	Dr. J. Jinadasa Dept. of Zoology Univ. of Sri Jayewardenepura Nugegoda.	Bionomics of mud crab fishery in Negambo Lagoon.	1985 3 yrs.	57900.00
RG/85/B/11	Dr. S. Kandiah Dept. of Botany Univ. of Jaffna Jaffna.	Evaluation & establishment of advanced propagation & cultural techniques for fruit tree selections from Sri Lanka.	1985 3 yrs	132800.00
RG/85/B/12	Dr. K.H.G.M. de Silva Dept. of Zoology Univ. of Peradeniya Peradeniya.	Pond culture of snake heads (<u>Ophiocephalus</u> spp.)	1985 3 yrs.	70000.00
RG/86/B/01	Dr. K. Chitravadivelu Dept. of Zoology Univ. of Jaffna Jaffna.	Biology of prawns in the Jaffna Lagoon & the evaluation of the performance of the gear used in prawn fishery.	1986 2 yrs.	60540.00
RG/86/B/02	Dr.(Mrs) P.K. de Silva Dept. of Zoology Univ. of Peradeniya Peradeniya.	Studies on the semiintensive & intensive pond and tank culture of <u>Tor khudree</u> (Teleostei: <u>Cyprinidae</u>).	1986 3 yrs.	86400.00
RG/86/B/03	Dr.(Mrs) R.M. Herath Dept. of Botany Univ. of Kelaniya Kelaniya.	Floristic & Palynological studies at Sirigirya.	1986 2 yrs.	34800.00
RG/86/B/05	Dr. H.N. de Silva Miss. T.D. Silva Dept. of Botany Univ. of Colombo Colombo.	Characterization of Sri Lankan banana germplasm based on morphological, vegetative and biochemical characters.	1986 1 year	21645.00

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RG/86/B/07	Dr. A.B. Samarakoon Dept. of Botany Univ. of Colombo Colombo.	Studies on the Biology of Mangroves.	1986 2 yrs.	86280.00
RG/86/B/08	Dr. M.P. de Silva Dept. of Botany Univ. of Ruhuna Matara.	Growth phenology of tropical trees in relation to cambial activity.	1986 2 yrs.	75700.00
RG/86/B/09	Dr. Rohan Rajapakse Dept. of Agronomy Univ. of Ruhuna Matara.	Impact of native parasites on the rice leaf folder <u>Cnaphalacrocis medinalis.</u>	1986 1 year	25000.00
RG/86/B/10	Dr. L. Pinto Colombo Regional Centre Open Univ. Maradana.	Part I: Seasonality in the utilization of Mangroves and adjoining seagrasses by juvenile fish & crustaceans in Negambo Lagoon.	1986 1 year	64536.00
<u>Completed Grants</u>				
RGB/82/13	Dr. J. Jinadasa Dept. of Zoology Univ. of Sri Jayewardenepura Nugegoda.	Productivity of the Bolgoda Lagoon.	1982 3 yrs.	45690.00
RG/83/11	Dr. N.K.B. Adikaram Dept. of Botany Univ. of Peradeniya Peradeniya.	Latent infection of fruits & vegetables, its physiologi- cal basis & possible control measures.	1983 3 yrs.	58200.00
RG/83/13	Prof. M.D. Dasanayake Dr. I.A.U.N. Gunatilleke Dept. of Botany Univ. of Peradeniya.	Vegetation studies of some mechanically logged areas in Sinharaja.	1983 3 yrs.	161160.00
RG/83/14	Dr. S.W. Kotagama The Open Univ. Maradana.	Status, Ecology & Biology of the Avian Fauna in the Sinharaja MAB reserve.	1983 3 yrs.	82255.00
RG/83/15	Dr. J.P. Edirisinghe Dept. of Zoology Univ. of Peradeniya Peradeniya.	Biology & the integrated control of the brinjal pod- borer <u>Leucinodes orbanalis</u> (Lepidoptera pyralidae).	1983 3 yrs.	62610.00
RG/83/16	Prof. V.K. Ganesalingam Dept. of Zoology Univ. of Jaffna Jaffna.	Suppression of ovarian deve- lopment in insects of stored products, fed with seeds of local plants.	1983 2 yrs.	52440.00
RG/84/B/03	Prof. M.A. Pemadasa Mr. S. Hettiarachchi Dept. of Botany Univ. of Ruhuna.	Ecology of soil microfungi in the Kekanadura rain forest reserve.	1984 3 yrs.	94500.00
RG/84/B/09	Dr. M.S.M. Sideek Mr. J.M.P. Jayasinghe NARA, Mattakkuliya.	Studies on the recruitment mechanisms of commercially important peaneid prawns in Negambo.	1984 2 yrs.	32888.00
RG/84/B/11	Mr. B.D.L. Joseph Mrs. C. Amarasiri NARA Mattakkuliya.	Study of fishery biology & aspects of population dynamics of skipjak tuna off west and south west coastal waters of Sri Lanka.	1984 2 yrs.	36200.00

Completed Grants

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RG/85/B/08	Dr. A.H.M. Jayasuriya National Herbarium P.O. Box 15 Peradeniya.	Systematic investigation of the plant family Discoraceae in Sri Lanka.	1985 1 year.	45000.00
RG/85/B/13	Dr. R.L.C. Wijesundera Dept. of Botany Univ. of Colombo Colombo.	Studies on Colletotrichum leaf diseases in Rubber.	1985 1 year	12500.00
RG/86/B/06	Dr. R.L.C. Wijesundera Dept. of Botany Univ. of Colombo Colombo.	Studies on Colletotrichum leaf disease in rubber.	1986 1 year	18500.00
<u>Final Report to be Submitted</u>				
RGB/82/11	Mr. W.L.E. de Alwis 30, Hotel Road Mt. Lavinia.	Aspects of the ecology of Udawalawe National Park.	1982 3 yrs.	60108.00
RG/83/69	Dr. S. Widanapathirana Dept. of Botany Univ. of Kelaniya Kelaniya.	Microbio-geochemical activities in forest soils in Sri Lanka with special reference to mineral cycling & Nitrogen transformation.	1983 2 yrs.	115000.00
RG/83/70	Dr. P. Shivanathan Mr. R.S.Y. de Silva Plant Quarantine Office CARI, Gannoruwa.	To develop methods of detection & exclusion of papaw viruses & vectors in plant imports	1983 3 yrs.	114000.00
RG/83/71	Dr. S.A. Gunasekera Dept. of Botany Univ. of Kelaniya Kelaniya.	Survey of fungi associated with water hyacinth in Sri Lanka with the view of utilising them as biocontrol agents.	1983 3 yrs.	65210.00
RG/84/B/10	Mr. B.D.L. Joseph Mr. N.M. Moiyadeen NARA Mattakkuliya.	The ecology of commercially exploitable Holothuroides on the Northwest coast (Puttalam to Mannar) with the purpose of conserving & rehabilitating the fisheries already existing there.	1984 2 yrs.	50390.00
RG/85/B/03	Dr. A.B. Samarakoon Dept. of Botany Univ. of Colombo Colombo.	Salinity stress and plant growth, some studies on sea shore plants	1985 1 year	17000.00
RG/85/B/09	Dr. K.S.P. Kalpage Antifilaria Campaign Hotel Road Mt. Lavinia. Miss. V.L. Gunatilaka SACEP 5, Amarasekera Mawatha Colombo 5.	A study of the mosquito fauna of the Sinharaja MAB reserve with special reference to their breeding biology.	1985 2 yrs.	36457.00
RG/86/B/04	Dr. J.P.N.R. Chandrasena Dept. of Botany Univ. of Colombo Colombo.	Survey of rice-field weeds of Sri Lanka - Stage II	1986 1 year	23400.00

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
Withdrawn Grants				
RG/87/B/2	Mrs. Kumudu Fernando CARI, Gannoruwa, Peradeniya.	Micro propagation of some Horticultural Crops, Banana Rambutan & Passion Fruit vine	1987 3 yrs.	165000.00
RG/87/B/1	Prof.(Mrs) U.Coomaraswamy Dept. of Botany Univ. of Batticaloa Chenkaladi.	Mycorrhizal associations in tropical dry zone (Batticaloa District) plants and towards the use of mycorrhizae to improve growth potential of species selected for afforestation in the dry zone (E.P)	1987 3 yrs.	129500.00
RG/87/B/03	Dr. S.U.K. Ekaratne Dept. of Zoology Univ. of Colombo Colombo.	Biology, Ecology and processing or Cysts of the brine-shrimp, <u>Artemia salina.</u>	1987 2 yrs.	65400.00
RG/87/B/04	Dr. I.A.U.N. Gunatilleke Dept. of Botany Univ. of Peradeniya Peradeniya.	Reproductive biology of <u>Caryota urens</u> (Palme) in relation to its cultivation	1987 2 yrs.	72000.00
RG/87/B/5	Dr.(Mrs)N.E. Gunawardene Dept. of Chemistry Univ. of Kelaniya Kelaniya.	Chemical investigations of some plant and insect derived attractants and defence secretions and their possible uses (as baits and as repellents respectively)	1987 2 yrs.	68000.00
RG/87/B/6	Dr. R.P. Subasinghe Dept. of Zoology Univ. of Colombo Colombo.	Evaluation of the impact of parasitic and microbial diseases and husbandry problems on production of carp fingerling in selected hatcheries/nurseries in Sri Lanka.	1987 3 yrs.	265630.00
RG/87/B/7	Prof. W.R. Breckenridge Dept. of Zoology Univ. of Peradeniya Peradeniya.	A study of the nature and incidence, and prevalence as well as aspects of biology of Schistosome species in cattle, buffalo, and goats in the Kandy district including a study of vector biology.	1987 3 yrs.	160280.00
RG/87/B/9	Dr.K.H.G.M. de Silva Dept. of Zoology Univ. of Peradeniya Peradeniya	Use of Azolla spp. (FILICOPHYTA: AZOLLACEAE) as the major source of feed in the pond culture of macrophytophagous fish species.	1987 3 yrs.	98790.00
RG/87/B/10	Dr.J.P.N.R. Chandrasena Dept. of Botany Univ. of Colombo Colombo.	Studies on the biology and control of local Couch Grass (<u>Panicum repens</u>) (L Beauv).	1987 2 yrs.	69620.00
RG/87/B/11	Dr. R.L.C. Wijesundera Dept. of Botany Univ. of Colombo Colombo.	Studies on the Colletotrichum leaf disease of Rubber.	1987 1 year	15000.00

CHEMICAL SCIENCES

THE STATUS OF RESEARCH GRANTS DURING 1987

Year of Award	Proposed duration	No. of Grants	Status during 1987			
			Completed	Terminated	Continuing	Withdrawn
1981	1 yr.	-	-	-	-	-
	2 yrs.	4	-	-	-	-
	3 yrs.	5	4	1	-	-
1982	1 yr.	1	1	-	-	-
	2 yrs.	3	2	-	1	-
	3 yrs.	5	4	-	-	1
1983	1 yr.	-	-	-	-	-
	2 yrs.	4	3	-	-	1
	3 yrs.	8	5	-	2	1
1984	1 yr.	2	1	-	1	-
	2 yrs.	1	-	-	1	-
	3 yrs.	7	1	-	6	-
1985	1 yr.	2	1	-	1	-
	2 yrs.	4	1	-	3	-
	3 yrs.	9	1	1	7	-
1986	1 yr.	-	-	-	-	-
	2 yrs.	2	-	-	2	-
	3 yrs.	5	-	-	4	1
1987	1 yr.	5	-	-	5	-
	2 yrs.	3	-	-	3	-
	3 yrs.	5	-	-	4	1

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
<u>Held in abeyance</u>				
RG/87/B/8	Dr. T. Jayasingham Dept. of Botany Univ. of Batticaloa Chenkaladi.	Early performance of selected native and exotic species with afforestation potential in the dry zone (E.P) of Sri Lanka.	1987 3 yrs.	51000.00
<u>Terminated Grants</u>				
RG/83/12	Prof. U. Coomaraswamy Dept. of Botany Eastern Univ. Chenkaladi.	Microbiological studies on the forest soils of the dry zone (Batticaloa District) of Sri Lanka.	1985 3 yrs.	113460.00

CHEMICAL SCIENCES GRANTS

Ongoing Grants

RG/82/23	Dr. B.M.R. Bandara Dept. of Chemistry Univ. of Peradeniya Peradeniya.	'Chemical investigation of the marine floras of Sri Lanka with view to isolation of biologically industrially useful compounds'	3 yrs.	132,740.00
RG/83/22	Prof. S. Mageswaran Dr. K. Jayaseelan Dept. of Chemistry Univ. of Jaffna.	'Chemistry and Biochemistry of palmyrah products'	3 yrs.	75,210.00
RG/83/74	Prof. L.M.V. Tillekeratne Prof. W.D. Ratnasooriya Dept. of Chemistry Dept. of Zoology Univ. of Colombo.	'Studies on the effect of extracts of Sri Lankan soft forals, sponges & marine algae on fertility in animals.	3 yrs	131,460.00
RG/84/C/02	Prof. K.T.D. de Silva Dept. of Chemistry Univ. of Sri Jayewardenepura Nugegoda.	'The Chemistry and Pharmacognosy of the substitutes drugs and adulterants of Ayurvedic medicinal plants'.	2 yrs.	33,240.00
RG/84/C/03	Mr. D.T. Jayasanna Div. of Occupational Hygiene Dept. of Labour Colombo 5.	'Investigation of health hazards due to Chromium in exposed workers of leather tanning & electroplating industries & role of Chromium in the effluents'.	3 yrs.	57,460.00
RG/84/C/06	Prof. G.P. Wannigama Dr. B.M.R. Bandara Dr. N.L.V.V. Karunaratna Dept. of Chemistry Univ. of Peradeniya.	'Alkaloids, Coumarins, triterpenes & other biologically active principles of some plant families of Sri Lanka.	3 yrs	164,460.00
RG/84/C/07	Dr. L.B. de Silva Dr. W.H.M.W. Herath Medical Research Inst., Colombo 8.	'Research on indigenous medicinal plants'	3 yrs.	57,000.00
RG/84/C/09	Dr.(Mrs) T.M.S. Atukorala Dept. of Biochemistry Fac. of Medicine Colombo 8.	'A study of total & glucose tolerance factor chromium content of foods'.	3 yrs.	68,980.00

Ref.No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RG/84/C/10	Dr. K.K.M.W. Silva Prof. C.B. Dissanayake Dept. of Geology Univ. of Peradeniya.	'Study of Geology and rock, and water geochemistry of the Walawe ganga basin'.	3 yrs	126,780.00
RG/85/C/01	Prof. A.A.L. Gunatilaka Dept. of Chemistry Univ. of Peradeniya.	'Organosulphur compounds Natural & syathetic'	3 yrs.	136,400.00
RG/85/C/03	Prof. K. Balasubramaniam Dept. of Biochemistry Univ. of Jaffna.	'Biochemistry of drought resistance in coconut & palmyrah'	3 yrs.	151,400.00
RG/85/C/04	Dr.(Mrs) S. Samarasinghe Dept. of Chemistry Univ. of Sri Jaywardenepura Nugegoda.	'Chemistry & activity studies of compounds isolated from tissue cultures of Sri Lankan medicinal plants'.	2 yrs	88,100.00
RG/85/C/05	Dr. A. Basunuarachchi Dr. I.K. Perera Dept. of Chemistry Dept. of Physics Univ. of Sri Jaywardenepura.	'Post harvest changes and performance at processing of some Sri Lankan vegetables'	3 yrs.	168,400.00
RG/85/C/06	Prof. L.M.V. Tillekeratne Dr.(Mrs) S.A. Deraniyagala Dept. of Chemistry Univ. of Colombo.	'Isolation & structure elucidation of Natural Products from Marine Organisms & determination of their biological activity'.	3 yrs.	150,900.00
RG/85/C/07	Prof. A.A.L. Gunatilaka Dept. of Chemistry Univ. of Peradeniya Peradeniya.	'Use of potato disc assay for antitumour screening & isolation of antitumour agents from Sri Lankan plants'.	3 yrs.	157,500.00
RG/85/C/08	Mr. C.D.R.A. Jayewardene Sri Lanka Standards Inst., Dharmapala Mawatha, Colombo 3.	'Development of methods for estimation of fruit content in processed fruit products'.	2 yrs.	90,600.00
RG/85/C/09	Dr. N.S. Kumar Dr. B.M.R. Bandara Dept. of Chemistry Univ. of Peradeniya.	'Organic and aqueous extractives of some medicinal plants of Sri Lanka.	3 yrs.	112,400.00
RG/85/C/10	Dr. V. Kumar Dept. of Chemistry Univ. of Peradeniya.	'Studies on Citrus and other rutaceous plants'	2 yrs	75,600.00
RG/85/C/12	Prof. K.T.D. de Silva Dr. A. Basunuarachchi Dept. of Chemistry Univ. of Sri Jaywardenepura.	'Biological activity directed phyto-chemical studies of some Sri Lankan plants'.	3 yrs.	162,500.00
RG/85/C/14	Dr. N.S. Kumar. Dept. of Chemistry Univ. of Peradeniya Peradeniya.	'Chemical investigation of the nucilaginous constituents in some plants used in traditional medicine'.	1 year	29,800.00
RG/85/C/15	Dr. L.B. de Silva. Dr. W.H.M.W. Herath Medical Research Inst., Colombo 8.	'Chemical investigation of indigenous medicinal plants	3 yrs.	141,400.00

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
Ongoing grants.				
RG/86/C/1	Mrs. S. Wimalasena Dept. of Chemistry Univ. of Kelaniya	'Chemical studies on <u>Wrightia antidysenterica</u> (Apocynaceae) & <u>Horsfieldia irya</u> (Myristicaceae)	2 yrs.	67,600.00
RG/86/C/03	Mr. K.P. Perera Mrs. M. Senanayake Dr. P. de A. Gurusinghe Research Station Dept. of Minor Export Crops Matale.	'An investigation to detect the correlations between organoleptic characteristics & chemical constituents of cinnamon'.	3 yrs.	75,000.00
RG/86/C/04	Dr. N.L.V.V. Karunaratne Dr. B.M.R. Bandara Dept. of Chemistry Univ. of Peradeniya.	'Isolation of antimicrobial and/or insecticidal compounds from Higher plants'.	3 yrs.	186,400.00
RG/86/C/05	Dr. M.P. de Silva Dr. R.N. Pathirana Dr. C.P. Pathirana Dept. of Botany Dept. of Chemistry Dept. of Biochemistry Univ. of Ruhuna.	'Studies of medicinal plants in Southern Sri Lanka. With special reference to families, Meliaceae, Euphorbiaceae, Leguminosae and Chemistry & Pharmacology of their natural products'.	3 yrs.	206,400.00
RG/86/C/06	Dr. M. Jayaratna Mr. F.L.N. Dissanayake Univ. of Moratuwa Ceylon Ceramics Corp.	'A study of the use of Zirconium minerals occurring in Sri Lanka in the fabrication of refractories and other ceramics'.	3 yrs.	43,500.00
RG/86/C/07	Dr. A.M. Mubarak Mr. K.A.D.W. Senaratna Agro Industries Section CISIR Dept. of Zoology Univ. of Ruhuna.	'Evaluation of insecticidal properties of neem formulations against insect pests of rice and vegetables'.	2 yrs.	138,000.00
RG/87/C/1	Prof. L.M.V. Tillekeratne Dept. of Chemistry Dr. J.P.N.R. Chandrasena Dept. of Botany Univ. of Colombo.	"Preliminary Studies on Allelopathic Interactions between plant species & chemical characterization of Allelo-chemicals".	3 yrs.	183,600.00
RG/87/C/2	Dr. O.A. Ileperuma Dept. of Chemistry Univ. of Peradeniya Peradeniya.	"Photofixation of nitrogen on semiconductor catalysis"	3 yrs.	192,000.00
RG/87/C/3	Dr.(Mrs) C.M. Arewgoda Mrs. Sukumal Wimalasena Dept. of Chemistry Univ. of Kelaniya	"Pollution due to heavy metals and agro-chemicals in Kelaniya area (continuation of grant No. RG/85/C/13)	1 year	34360.00
RG/87/C/4	Prof. C.B. Dissanayake Dept. of Geology Univ. of Peradeniya.	"The Compilation of Soil Chemistry Atlas of Sri Lanka"	3 yrs.	285000.00
RG/87/C/5	Dr. G.S. Jayatilake Natural Products Section Dr. A.L. Jayawardena Agro Industries Section CISIR.	"Analysis of Sri Lankan Essential Oils by gas chromatography and mass spectroscopy"	3 yrs.	164000.00

Ref. No.	Name & Institution	Title of Project	Proposed duration	Financial allocation
RG/87/C/6	Dr.(Mrs) L.S.R. Arambawela Natural Products Section CISIR	"Phytochemical, analytical and agronomical studies on some common medicinal plants of Sri Lanka".	1 year	30000.00
RG/87/C/7	Prof. A.A.L. Gunatilake Dept. of Chemistry Univ. of Peradeniya. Peradeniya.	"Isolation and Identification of the immuno-suppressive agent(s) in palmyrah (<u>Borassus Flabellifer</u> flour).	1 year	49000.00
RG/87/C/8	Dr. L.K.G. Wickremasinghe Dept. of Chemistry Univ. of Kelaniya.	"Pesticidal constituents of <u>Euphorbia antiquorum</u> "	1 year	57000.00
RG/87/C/10	Mrs. D. Rajapakse Section of Food Technology CISIR.	"Chemistry and Technology of rice flour based products"	3 yrs.	56000.00
RG/87/C/11	Dr(Mrs) D.H. Karunaratne Prof. P.A.J. Perera Dept. of Bio-chemistry Univ. of Peradeniya Peradeniya.	"Structure elucidation of an immunogenic bacterial polysaccharide from <u>Escherichia coli</u> "	2 yrs.	22300.00
RG/87/C/12	Dr(Mrs) C.S. Wijewardene Dept. of Chemistry Univ. of Sri Jayewardenepura	"Study of chemistry & Activity of some Indigenous Medicinal Plants of Sri Lanka".	2 yrs.	116000.00
RG/87/C/13	Prof. K.T.D. de Silva Dept. of Chemistry Univ. of Sri Jayewardenepura	"An addendum to Ayurveda Pharmacopoeia (continuation of the Grant No. RG/83/73)	2 yrs.	72000.00
RG/87/C/14	Dr(Mrs) V.D.P. Sirimanne Dept. of Chemistry Univ. of Sri Jayewardenepura	"Studies on plant gums found in Sri Lanka" (continuation of the grant No. RG/84/C/8)	1 year	35000.00
<u>Continuing Under RG/87/C/13</u>				
RG/83/73	Prof. K.T.D. de Silva Dept. of Chemistry Univ. of Sri Jayewardenepura.	'An addendum to Ayurveda Pharmacopoeia'	2 yrs.	40,240.00
<u>Continuing under RG/87/C/14</u>				
RG/84/C/08	Dr(Mrs) V.D.P. Sirimanne Dept. of Chemistry Univ. of Sri Jayewardenepura	'Studies on plant gums found in Sri Lanka'	2 yrs	46,240.00
<u>Continuing under RG/87/C/03</u>				
RG/85/C/13	Dr(Mrs) C.M. Arewgoda Mrs. S. Wisalaseena Dept. of Chemistry Univ. of Kelaniya.	'Pollution due to trace metals and agrochemicals in Kelaniya area'.	2 yrs	61,600.00
<u>Completed Grants</u>				
RG/81/20	Prof. C.B. Dissanayake Dept. of Geology Univ. of Peradeniya.	'The environmental Geochemistry of well water in and around Kandy'	3 yrs.	50,240.00
RG/81/23	Prof. E.H. Karunanayake Dept. of Biochemistry Fac. of Medicine Univ. of Colombo.	'Study of the metabolism & mode of action of the orally hypoglycaemic principle (s) of <u>Scalasia reticulosa L.</u> '	3 yrs.	23,160.00

Ref. No.	Name & Institution	Title of Project	Proposed duration	Financial allocation
<u>Completed Grants</u>				
RG/83/20	Dr(Mrs) L.S.R. Arambewela CISIR Colombo 7.	'Phytochemical studies on some selected medicinal plants of Sri Lanka with a view to enhance their economic value'.	3 yrs	62,960.00
RG/83/23	Dr(Mrs) R. Mageswaran Dept. of Chemistry Univ. of Jaffna.	'Chemical investigation of seaweeds'	3 yrs.	67,710.00
RG/83/24	Dr. E.D. de Silva Prof. L.M.V. Tillekeratne Dept. of Chemistry Univ. of Colombo.	'Structural elucidation & biological activity of marine natural products'.	3 yrs.	127,700.00
RG/83/25	Dr.(Mrs) T.M.S. Atukorala Dept. of Biochemistry Univ. of Colombo	'Evaluation of vitamin A,B carotene zine & copper contents of some rural & urban diets'.	2 yrs.	45,000.00
RG/83/26	Dr. J.S.H.Q. Perera Dept. of Chemistry Univ. of Peradeniya.	'Chemical transformation of natural rubber'.	3 yrs.	50,690.00
RG/84/C/05	Prof. A.A.L. Gunatilaka Dept. of Chemistry Univ. of Peradeniya.	'Economically useful plants of Sri Lanka'.	3 yrs.	39,000.00
RG/85/C/11	Prof. P.A.J. Perera Mr. H.M.C.S. Kusara Dept. of Biochemistry Univ. of Peradeniya.	'The roll of histidine decarboxilase in the pathogenesis of diarrhoea caused by <u>E. Coli</u> '	1 year	19,000.00
<u>Terminated Grants</u>				
RG/85/C/02	Mr. P. Jayanetti Ceylon Steel Corporation Aturugiriya.	'Extension of Emission spectrographic analytical Methods for all types of Iron, Steel, Ferro Alloys and Steel making slags'.	3 yrs.	70,900.00
<u>Withdrawn Grants</u>				
RG/86/C/02	Dr. G.S. Jayatilaka Mrs. S. Wijesundara Natural Products Section CISIR Dept. of Chemistry Univ. of Colombo.	'Metabolism of herticides in Resistant bacteria'.	1 year	96,000.00

THE STATUS OF RESEARCH GRANTS DURING 1987

MEDICAL & VETERINARY SCIENCES

Year of award	Proposed duration	No. of grants in operation during 1986	Status of grants during 1987			
			Completed	Terminated	Withdrawn	Ongoing
1983	1 year	-	-	-	-	-
	2 years	3	-	-	-	3
	3 years	2	1	-	-	1
1984	1 year	1	-	-	-	1
	2 years	1	1	-	-	0
	3 years	1	-	-	-	1
1985	1 year	2	-	-	-	2
	2 years	6	1	-	-	5
	3 years	2	-	-	-	2
1986	1 year	4	-	-	1	3
	2 years	2	-	-	-	2
	3 years	1	-	-	-	1
1987	1 year	2	-	-	-	2
	2 years	1	-	-	-	1
	3 years	7	-	2	-	5

MEDICAL & VETERINARY SCIENCES GRANTS

Ongoing Grants

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RGB/82/27	Dr(Mrs) N.V.I. Ranatunga Dept. of Pathology Univ. of Peradeniya Peradeniya.	Histopathology of chronic obliterative arterial disease of limbs in the central province.	1982 3 yrs.	18,000.00
RGB/82/28	Dr. P.C.A. Ranatunga Fac. of Medicine Univ. of Peradeniya Peradeniya.	A study of the feasibility of reconstructive arterial surgery in Sri Lankan patients.	1982 1 year	15,859.00
RG/83/30	Dr. A.T.W.P. Jayewardene 14, Albert Place Dehiwala. Dr. C.G. Uragoda 385, Deans Road Colombo 10.	Measurements of Lung Function in Normal Sri Lankans. (Final Report to be submitted)	1983 2 yrs.	26,000.00
RG/83/40	Dr. A.R. Mohamed Dr. G.S. Peiris Veterinary Research Inst., Gannoruwa.	A study of the infectious abortions in cattle, buffaloes and goats. (Final Report to be submitted)	1983 2 yrs.	35,500.00
RG/83/75	Prof. N. Sreeharan Dr. K. Ranjadayanan Dept. of Medicine Univ. of Peradeniya Peradeniya.	The use of Momordica charantia (Bitter gourd) in Diabetes mellitus. (Final Report to be submitted)	1983 1 year	10000.00
RG/83/79	Prof. S.T. Fernando Dept. of Vet. Para Clinical Studies Univ. of Peradeniya Peradeniya.	Colloborative programme in research & training in the fac. of veterinary medicine & animal sciences. 1) Clinical Hormonal studies on the reproductive functions of indigenous buffaloes in Sri Lanka 2) Cellular & humoral immune reactions of buffaloes to <u>Toxocara Vitulorum</u> 3) Buffaloes calf morality due to bacteria & viruses.	1983 3 yrs.	119,880.00
RG/84/M/3	Dr. T.A. Kulatilaka Dr. A.V.K.V. de Silva Epidemiology Unit 385, Deans Road Colombo 10.	Socio-Medical aspect of traumatic injuries (Patients) treated at accident services General Hospital Colombo.	1984 1 year	18,300.00
RG/84/M/7	Dr(Mrs) L.I.M. Dharmawardene M.O.H. Office Kiribathgoda Kelaniya. Prof. G.P. Samarawickrema Dept. of Community Medicine Univ. of Ruhuna Matara.	An investigation into the incidence and prevalence of pesticide poisoning in Matara and Hambantota Districts.	1984 1 year	46,500.00

Ongoing Grants

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RG/84/V/1	Dr. V.Y. Kuruwita Dr. B.M.A.O. Perera Dr. V.K. Gunawardene Dept. of Vet. Pre-Clinical Studies Univ. of Peradeniya Peradeniya.	Endocrinological and histological studies on pubertal developments in goats and post-partum ovarian activity in female goats.	1984 3 yrs.	111,960.00
RG/85/M/2	Prof. C. Sivagnanasundram Prof. N. Sreeharan Mrs. J. Jegatheesan Fac. of Medicine Univ. of Jaffna Jaffna.	Study of the demographic socio-economic & epidemiological features in relations to the state of health of the Brahmin community in Jaffna. (Final Report to be submitted)	1985 1½ years	38,000.00
RG/85/M/09	Dr. K. Weerasuriya Mr. P.L.D.S. Perera Dept. of Pharmacology Fac. of Medicine Kynsey Road, Colombo 8.	Pharmacokinetics and pharmacodynamics of propranolol in Sri Lanka.	1985 1 year	3000.00
RG/85/V/01	Dr(Miss) P. Abeynayake Prof. S.T. Fernando Fac. of Vet. Sciences Fac. of Vet. Medicine Univ. of Peradeniya Peradeniya.	Effect of an anthelmintic (benzimidazole) on Toxocara vitulorum in buffalo calves.	1985 3 yrs.	58,000.00
RG/85/V/04	Prof. S.G. de S. Wettimuny Dept. of Vet. Sciences Univ. of Peradeniya Peradeniya.	A study of Cerebrospinal nemat-odiasis in goats.	1985 3 yrs.	172,800.00
RG/85/M/04	Dr. Diyanath Samarasinghe Fac. of Medicine Univ. of Colombo	Traditional therapists-Evaluation of present role and potential usefulness.	1985 2 yrs.	71,900.00
RG/85/M/05	Dr(Mrs) M.C. Attapathu Medical Research Inst., Colombo 8.	Some aspects of pulmonary & systemic mycotic disease in Sri Lanka.	1985 2 yrs.	98,800.00
RG/85/M/06	Dr(Mrs) T. Saravanapavanathan Dept. of Pharmacology Univ. of Jaffna.	A study of the aetiology of urinary calculi.	1985 2 yrs.	50000.00
RG/85/M/07	Dr. N.A. de S. Amaratunga Dental School Augusta Road Peradeniya Dr(Mrs) K. Karaliedde Dr. I.G. Premadasa Fac. of Medicine Univ. of Peradeniya.	A study of epidemiological, clinical and bacteriological aspects relevant to treatment of cleft lip and palate and a feasibility study of a system of initial management of cleft lip and palate.	1985 2 yrs.	77300.00
RG/85/M/08	Dr(Mrs) G. Ponnampalam Medical Officer Maternity & Child Health Jaffna. Prof. C. Sivagnanasundram Fac. of Medicine Univ. of Jaffna Jaffna.	Study of infant mortality and still-births in the Jaffna Municipal area.	1985 1½ years	15,000.00

Ref. No.	Name & Institution	Project Title	Year of Award & Proposed duration	Financial allocation
Ongoing Grants				
RG/86/M/2	Dr. J.S.M. Peiris Dept. of Microbiology Univ. of Peradeniya Peradeniya.	Humoral antibody response to Shiga toxin in Shigellosis	1986	50,000.00
RG/86/M/3	Dr. T. Vinayagamoorthy Dept. of Biochemistry Fac. of Medicine Univ. of Jaffna Jaffna.	Stability of R-plasmids (isolated from clinical sources & drinking water sources) in <u>Salmonella typhi</u> , <u>Shigella dysenteriae</u> , <u>E.coli</u> & <u>Dietsiella aerogenes</u> in nutritive & non nutritive media.	1986 2 yrs.	50,000.00
RG/86/M/4	Dr(Mrs) I.I. Angunawela Dept. of Pharmacology Univ. of Peradeniya Peradeniya.	A prospective study of the prescribing habits in the state sector.	1986 1 year	50,000.00
RG/86/M/5	Dr(Mrs) L.N. Mendis Dept. of Microbiology Fac. of Medicine Kynsey Road Colombo 8.	Type specificity and duration of actively and passively acquired immunity to Rotavirus.	1986 1 year	68,400.00
RG/86/M/6	Dr. U.N. Premaratne Dept. of Parasitology Fac. of Medicine Kynsey Road Colombo 8.	Production of monoclonal antibodies against microfilariae & infective Larvae (L3) of <u>Wuchereria bancrofti</u>	1986 1 year	50,000.00
RG/WHO/1	Miss. R.A. Jayewardene No.1, Flower Avenue Colombo 7.	The social costs of malaria to settlers in the Mahaweli Development project, Sri Lanka.	1986	34,700.00
RG/87/M/1	Dr. D. Samarasinghe Dept. of Psychiatry Fac. of Medicine Kynsey Road, Colombo 8.	Evaluation of long term outcome in patients treated by traditional therapists.	1987 3 yrs.	139,500.00
RG/87/M/2	Dr. J.S.M. Peiris Dept. of Microbiology Univ. of Peradeniya	Improved Techniques for Diagnosis of Shigellosis.	1987 1 year	62,000.00
RG/87/M/3	Prof. E.H. Karunanayake Dept. of Biochemistry Fac. of Medicine Kynsey Rd., Colombo 8.	Cloning & Characterization of repetitive sequence from the filarial parasite <u>Wuchereria bancrofti</u> .	1987 3 yrs.	175,000.00
RG/87/M/4	Dr(Mrs) Fernandopulle Dept. of Pharmacology Fac. of Medicine Kynsey Rd., Colombo 8. Prof. E.H. Karunanayake Dept. of Biochemistry Fac. of Medicine Kynsey Rd., Colombo 8. Prof. K. Jayasena Dept. of Pharmacology Univ. of Peradeniya.	The binding of oxytocic agents by protein fractions of the human uterus.	1987 3 yrs.	105,000.00

Ref. No.	Name & Institution	Project Title	Year of Award & Proposed duration	Financial allocation
<u>Ongoing Grants</u>				
RG/87/V/1	Dr. D.J. Wailgama Miss. D.M. Nambu V.R.I. Gannoruwa, Peradeniya.	Epidemiology of nematodiasis in <i>Bosindicus</i> calves in two different	1987 2 yrs.	8,500.00
RG/87/V/2	Dr. D.D. Wanasinghe V.R.I. Gannoruwa Peradeniya.	Development of an Improved Black Quarter (BQ) Disease Vaccine.	1987 2 yrs.	60,300.00
RG/87/V/4	Prof. S.T. Fernando Dr(Miss) V.K. Gunawardene Fac. of Vet. Science Univ. of Peradeniya Peradeniya.	Pathophysiological & immunological response of buffaloes to <i>Toxocara vetulorum</i> infection with particular reference to antigenic analysis & cell mediated immune reactions.	1987 3 yrs.	108,400.00
RG/87/V/5	Dr. N.U. Horadagoda Fac. of Vet. Science Univ. of Peradeniya	Haematological studies of cattle, sheep and goats in Sri Lanka.	1987 3 yrs.	54,000.00
<u>Completed Grants</u>				
RG/83/35	Dr(Mrs)M.C.P. Canagaratna Dept. of Biochemistry Fac. of Medicine Kynsey Rd., Colombo 8.	Urinary hydroxyproline excretion in patients with metastatic bone disease from breast cancer.	1983 3 yrs.	70,500.00
RG/84/M/4	Dr. Kamini Mendis Mr. W. Abeywickrema Dept. of Parasitology Fac. of Medicine Kynsey Rd., Colombo 8.	Biology, Bioeconomics & population genetics in relation to 'possible' <i>Anopheles culicifacies</i> species complex in Sri Lanka.	1984 2 yrs.	36,000.00
RG/85/V/02	Dr(Miss) C.P. Kodikara Fac. of Vet. Medicine & Animal Sciences Univ. of Peradeniya.	A study of bacteriological quality of producer milk.	1985	44400.00
<u>Cancelled Grants</u>				
RG/86/M/1	Dr. D.D. Karaliedde Dept. of Surgery Univ. of Peradeniya Peradeniya.	Secretory immunoglobulins & the post-operative response in relation to nutritional status	1986 1 year	29500.00
RG/87/V/3	Dr(Miss) Ayona T.M. Silva Dr. H.B.S. Ariyaratne Fac. of Vet. Science Univ. of Peradeniya Peradeniya.	Determination of the Potential capacity of indigenous Sri Lankan buffalo, cattle & goats to utilize low quality roughages of local origin & assessment of the heritability of this trait.	1987 3 yrs.	58000.00
<u>Withdrawn Grants</u>				
RG/87/M/5	Dr(Mrs) B.K. Gomez Dept. of Pharmacology Prof. E.H. Karunanayake Dept. of Biochemistry Fac. of Medicine Kynsey Rd., Colombo 8. Prof. K. Jayasena Dept. of Pharmacology Univ. of Peradeniya.	The role of anti-diuretic hormone (vasopressin) in the aetiology of toxemia of pregnancy.	1987 3 yrs.	105000.00

THE STATUS OF RESEARCH GRANTS 1987

PHYSICAL & ENGINEERING SCIENCES

Year of Award	Proposed duration	No. of grants in operation during 1987	Status of grants during 1987			
			Completed	Terminated	Withdrawn	On going
1983	1 yr.	1	1	-	-	-
	2 yrs.	-	-	-	-	-
	3 yrs.	-	-	-	-	-
1984	1 yr.	1	1	-	-	-
	2 yrs.	1	1	-	-	-
	3 yrs.	-	-	-	-	-
1985	1 yr.	3	3	-	-	-
	2 yrs.	2	-	-	-	2
	3 yrs.	-	-	-	-	-
1986	1 yr.	1	-	-	-	1
	2 yrs.	3	-	-	-	3
	3 yrs.	1	-	-	-	1
1987	1 yr.	4	-	-	-	4
	2 yrs.	2	-	-	-	2
	3 yrs.	-	-	-	-	-

PHYSICAL & ENGINEERING SCIENCES GRANTS

Ongoing Grants

Ref. No.	Name & Institution	Title of Project	Proposed duration	Financial allocation
RG/85/P/01	Prof. O.W. Jayaratne Dept. of Physics Univ. of Colombo Colombo.	'Some aspects of atmospheric electricity in Sri Lanka (a) Diurnal & annual variations of earth's vertical electric field (b) the 'sunrise effect' (c) possible correlations with growth'	2 yrs	42405.00
RG/85/E/02	Mr. W.W.K.L. Mendis Mr. S.E.G. Jayamaha C.C.C. (E) Ltd. P.O. Box 1191 Colombo.	'Automation of the TRI-CCC fluid bed tea drier'	2 yrs.	163760.00
RG/85/E/03	Mr. N. Jayawardene 51, Sri Damadara Mw., Ratmalana.	'Access-mobility as a locational factor in industrial location with special reference to the Colombo Urban Area and the area of Authority of the Greater Colombo Economic Commission'.	2 yrs.	61000.00
RG/86/E/02	Dr. L.N. Pussegoda Mr. K.E.D. Sumanasiri Dept. of Mechanical Eng. Univ. of Peradeniya.	'Prediction of the stress-strain curve of a cold twisted circular bar & compare with experimental results'.	2 yrs	15800.00
RG/86/P/01	Prof. K. Tennakoon Dept. of Physics Univ. of Ruhuna.	'Semiconductor materials for chemical storage of solar energy'	2 yrs	45600.00
RG/86/P/03	Dr. D.A. Tantrigoda Dept. of Physics Univ. of Sri Jaywardenepura.	'A gravity & magnetic study of some selected regions in Sri Lanka'	3 yrs.	122700.00
RG/87/E/01	Dr. W.J.N. Fernando Dept. of Chemical Eng. Univ. of Peradeniya.	'Development of a Rice Bran stabilization plant (Pilot plant)'.	1 year	94000.00
RG/87/E/02	Dr. H.N. Seneviratne Dept. of Civil Eng. Univ. of Peradeniya Peradeniya.	'A study of causes & remedial measures for an active land slide close to the Nawalapitiya, Gampola Highway'.	2 yrs.	80000.00
RG/87/E/04	Dr. C. Kariyawasam Dept. of Civil Eng. Univ. of Moratuwa.	'Victoria & Randenigala threat to Kalawewa farmers'.	1 year	9750.00
RG/87/P/01	Dr. W.P. Siripala Dept. of Physics Univ. of Kelaniya.	'Low cost photovoltaic solar cells'	1 year	35000.00
RG/87/P/02	Prof. K. Tennakoone Dept. of Physics Univ. of Ruhuna.	'Sensitised liquid junction and solid state solar cells'.	2 yrs.	60000.00

Completed Grants

RG/83/81	Dr. K.T.L. de Silva Dr. T.R. Ariyaratne Dept. of Physics Univ. of Colombo.	'Photoelectrochemical solar energy conversion'	1 year	48290.00
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Completed Grants

Ref. No.	Name & Institution	Title of Project	Proposed duration	Financial allocation
RG/84/P/01	Dr. T.R. Ariyaratne Dept. of Physics Univ. of Colombo.	'Molecular desorption mass Spectroscopy'	1 year	45000.00
RG/84/E/02	Dr. L.N. Pussegoda Dept. of Mech. Engi. Univ. of Peradeniya Peradeniya.	'Effect of the mode of prior deformation on the subsequent mechanical properties of two phase metals' (Continuation of work done under RG/82/35)	2 yrs.	10710.00
RG/85/P/02	Dr. K.T.L. de Silva Dr. T.R. Ariyaratne Dept. of Physics Univ. of Colombo.	'Photoelectrochemical solar energy conversion'	1 year	31500.00
RG/85/E/01	Dr. C. Kariyawasam Dept. of Civil Engi. Univ. of Moratuwa.	'Evaluation of hydropower potential in existing irrigation scheme in Sri Lanka'.	1 year	6075.00
RG/86/E/01	Dr. C. Kariyawasam Dept. of Civil Engi. Univ. of Motatuwa.	'Hydrological impact of rehabilitation of minor tanks'.	1 year	9850.00

Continuing Under RG/88/P/05

RG/86/P/02	Prof. K.G.A. Dahanayake Prof. C.B. Dissanayake Dept. of Geology Univ. of Peradeniya.	'Petrological, sedimentological & geochemical studies of precambrian iron occurrences of Sri Lanka'	2 yrs.	195,200.00
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Not Functioning

RG/87/E/03	Mr. D.L.O. Mendis 16/1, George E. de Silva Mawatha, Kandy.	'An evaluation of the ancient irrigation system in the Walawe basin, including an identification of the components of the system: an estimate of the costs of construction & maintenance; evaluation of economic surpluses; estimate of population densities & a study of methods of irrigation water management & theories of social organization including modes of production'.	1 year	48720.00
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NATURAL RESOURCES GRANTS

Ongoing Grants

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RG/87/EN/01	Dr. A.H. Perera Dept. of Crop Science Univ. of Peradeniya Peradeniya.	A study of ecological succession in <u>Pinus caribaea</u> plantations at <u>Wewaltalawa</u> ; floristic composition biomass production and nutrient dynamics.	1987 15 months	129000.00

Completed Grants

RG/85/EN/1	Dr. M.W.R.N. de Silva National Aquatic Resources Agency Crow Island Colombo 15.	Collection & preservation of marine algae.	1985 (Nov) 6 months	50000.00
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ENERGY GRANTS

Ongoing Grants

RG/EP/86/3	Dr. A.L. Jayawardena	Suitability of <u>Jatropha</u> seed oil as a substitute for Kerosene	1986 (Nov) 6 months	15500.00
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Completed Grants

RG/EP/2/85	I.D.B.	Experimental work on & field evaluation of SAVOOD hearth.	1984 (Oct) 1 year.	24676.00
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SCIENCE EDUCATION GRANTS

Suspended Grants

RG/87/SE/1	Prof. J.N.O. Fernando Prof. of Chemistry Open Univ. Nawala.	In depth study of the production & employment of Sri Lankan Chemists with special reference to the tertiary chemistry curriculum.	1987 2 yrs.	71250.00
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Completed Grants

RG/87/SE/2	Dr. (Mrs) I.J. Dayawansa Dept. of Electronics & Telecommunication Univ. of Moratuwa Moratuwa. Dr. P.A.J. Ratnasiri Dy. Director CISIR, Bauddhaloka Mw., Colombo 7. Prof. C. Dahanayake Dept. of Physics Univ. of Kelaniya Kelaniya.	Investigation into the level of performance in Physics at the G.C.E. (A/L) Examination.	1987 1 year	15700.00
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MAN & BIOSPHERE GRANTS

Ongoing Grants

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
MAB/81/2	Dr. H.D. Gunawardena Dept. of Chemistry Univ. of Colombo	Pesticide & Water Quality monitoring programme for system B of the Mahaweli Project	1981	200800.00
MAB/85/1	Mr. W.L.E. De Alwis Dr. S.W. Kotagama Mr. K.C.I. De Alwis	The Ecology & Social Biology of the Western Purple faced Leaf Monkey.	1985 3 yrs.	112138.00
MAB/86/01	Prof. B.A. Abeywickrema Dept. of Botany Univ. of Colombo.	Botanical Survey of Sri Lanka.	1986 2 yrs.	167200.00

Completed Grants

MAB/85/2	Mr. J.S. Gunasekera Mahaweli Authority	Integrated Land Use & Conservation Planing & Utilization of Resources in Mahaweli/Pannala Micro-Catchment.	1985 2 yrs.	176500.00
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NATIONAL MANGROVE COMMITTEE

Ongoing Grants

RG/MAN/87/01	Dr. J.I. Samarakoon Dept. of Zoology Univ. of Kelaniya	Experimental studies on the mangroves based brushpile fishery.	1987 1 year	181620.00
RG/MAN/87/02	Dr. Chandrasiri Palliyaguru Head, Dept. of Sinhala Univ. of Kelaniya Dr. J.I. Samarakoon Dept. of Zoology Univ. of Kelaniya Kelaniya.	Comparative study of perception toward natural coastal resources of a catholic & a buddhist	1987 6 weeks	19940.00
RG/MAN/87/04	Prof. S. Balasubramanian Dept. of Botany Dr. Mangala de Silva Dept. of Zoology Univ. of Peradeniya Peradeniya.	The short term and longterm effects of removal & replantation of tree species on the structure & floristic & faunistic compositions of mangroves in Negambo area.	1987 3 yrs.	136753.00

Withdrawn Grants

RG/MAN/87/03	Dr. R.A.S. Rabel Dept. of Community Medicine Fac. of Medicine Kynsey Road Colombo 8.	The object of this study is to find out whether mangrove vegetation & its environment has any influence on the health of its inhabitants.	1987 7 months	57430.00
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BIOLOGICAL CONTROL OF SALVINIA

Ongoing Grants

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
RG/SAL/1	Dr. I.V.S. Fernando	Biological Control of Salvinia.	18 Nov. '85 3 yrs.	982800.00
RG/SAL/2	Dr. P. Shivanathan CARI	Biological control of Salvinia	18 Nov. '85 3 yrs.	193800.00
RG/SAL/3	Mr. G.A. Gunathilake Agricultural Research Centre, Bombuwela.	Biological control of salvinia	16 Nov. '85	237500.00

CIDA FERTILIZER GRANTS

Ongoing Grants

CIDA/83/1	Dr. S.L. Amarasiri Mr. M.A. Lathiff CARI Gannoruwa.	Determination of the potassium status of Sri Lankan rice soils & evaluation of the effect of potassium fertilizer on the growth of rice.	1983 3 yrs.	Funds allocated in Canada.
CIDA/83/2	Dr. S.L. Amarasiri Mrs. I.S. Padmasiri Dr. S.L. Amarasiri	Evaluation of the potassium requirements of banana in the mid-country wet zone of Sri Lanka.	1983 5 yrs.	504020.00
CIDA/83/3	Dr. G. Keerthisinghe Prof. N.W. Thenabadu Dept. of Agric. Chemistry Fac. of Agriculture Univ. of Peradeniya.	Effect of potassium buffer capacity & the mobility of nonexchangeable potassium on the availability of potassium in some of the important rice soils of Sri Lanka.	1983 5 yrs.	807480.00
CIDA/83/4	Mr. M. Jeganathan Miss. Malathi Nirrnala Dias CRI, Lunuwila.	Studies on K - Mg interaction in coconut.	1983 5 yrs.	515000.00
CIDA/83/5	Dr. S.L. Amarasiri Mr. H. Wijewardene Mr. J.M.P. Jayasundara Regional Agri. Research Centre Bandarawela.	Fertilizer studies on selected vegetable crops in the upcountry with emphasis on residual activity of soil P & K.	1983 5 yrs.	1930000.00
CIDA/83/6	Dr. S. Krishnapillai Tea Research Inst. Talawakele.	To evaluate the efficiency of utilization of potash fertilizers for tea in Sri Lanka with special reference to soil fertility and crop production.	1983 5 yrs.	2313800.00
CIDA/83/7	Mr. G. Wadasinghe Tea Research Inst. Low Country Station Ratnapura.	Role of Potassium in relation to drought hardiness in young tea.	1983 5 yrs.	1303350.00
CIDA/83/8	Dr. M.K.S.A. Samaraweera Rubber Research Inst.,	Study of the Potassium & Magnesium deficiencies in young rubber.	1983 5 yrs.	915200.00

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
<u>Ongoing Grants</u>				
CIDA/83/9	Dr. N. Yogaratnam Rubber Research Inst. Agalawatte.	Potassium nutrition on <u>Hevea brasiliensis</u> & associated covers: (1) Soil & leaf as a guide to potassium nutrition of <u>Hevea brasiliensis</u> . (2) Effects of different levels of K on Mg uptake by immature rubber. (3) Potassium nutrition of <u>Hevea</u> in relation to stimulation. (4) The influence of K on N status of leguminous covers & growth of <u>Hevea</u> during the immature phase.	1983 5 yrs.	970,400.00
CIDA/83/10	Mrs. L.V.K. Liyanage Coconut Research Inst. Lunuwila.	To study the effects of nitrogen, phosphorus & potassium and magnesium fertilizers on the early growth and nutrient uptake of a cover crops (<u>Pueraria phaseolodes</u> grown under coconut.	1983 5 yrs.	685,000.00
CIDA/83/11	Dr. K.P. Premaratne Prof. H.P.M. Gunasena Dr. U.R. Sangakkara Fac. of Agric. Univ. of Peradeniya.	Fertilizer Potassium	1983 5 yrs.	855,600.00
CIDA/83/12	Prof. M.A. Pemadasa Dept. of Agronomy Fac. of Agriculture Univ. of Ruhuna Matara.	Studies on the fertility status of soils with special emphasis on potassium & the use of muriate of potash in Matara District.	1983 3 yrs.	676,600.00
CIDA/83/13	Mr. P.J. Wickremasinghe Mr. H.A. Sumanasena Mr. M. Dharmadasa Dept. of Minor Export Crops Matale.	Investigation on Cardamom under CIDA fertilizer project	1983	1,090,000.00
CIDA/83/14	Dr. S. Kathiragamathiyah Dept. of Minor Export Crops 1095, Kandy Rd., Peradeniya.	Demonstration of the effect of fertilizers on Minor Export Crops in cultivators fields.	1983 5 yrs.	930,000.00
CIDA/83/15	Dr. N. Yogaratnam Miss. L. Samarappuli RRI, Agalawatta.	Influence of K on tolerance to moisture stress in <u>Hevea brasiliensis</u> .	1985 3 yrs.	1,047,500.00
CIDA/85/16	Mrs. L.V.K. Liyanage Mr. K.B. Dassanayake Coconut Research Inst. Lunuwila.	Effect of nitrogen & potassium on the growth & yield of Cacao grown under Coconut as mixed crops in the wet zone of Sri Lanka.	1985 3 yrs.	203,850.00
CIDA/85/17	Dr. L.G.G. Yapa Dept. of Agric. Chemistry Fac. of Agriculture Univ. of Peradeniya Peradeniya.	Effects of soil moisture and soil strength/bulk density on the availability of potassium in some of the important soils in the dry zone of Sri Lanka.	1985 3 yrs.	683,790.00

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Financial allocation
<u>Ongoing Grants</u>				
CIDA/86/18	Dr. U.R. Sangakkara Fac. of Agriculture Univ. of Peradeniya Peradeniya.	Effect of potassium fertilizer on growth & yield of tropical tubers.	1986 2 yrs.	115,700.00
CIDA/86/19	Dr.(Mrs) Sujatha Premaratne Dept. of Animal Science Univ. of Peradeniya Peradeniya.	To investigate the effect of potassium application on the establishment, management and persistence of legume based pastures in the mid-country of Sri Lanka.	1986 3 yrs.	290,700.00
CIDA/86/20	Dr. P.A.J. Yapa. RRI, Agalawatte Dr. N. Yogaratnam RRI, Agalawatte.	Use of rubber factory effluents as a fertilizer with special reference to nitrogen, potassium and phosphorus.	1986 3 yrs.	1,320,200.00
CIDA/86/21	Dr. U.R. Sangakkara. Fac. of Agriculture Univ. of Peradeniya Peradeniya.	Effect of potassium on nodulation & growth of Tropical legumes	1986 2 yrs.	183,900.00
CIDA/86/22	Dr. J. Handawela Mr. W.A. Karunatilake Agric. Research Station Angunakolapelessa.	Study the role of potassium fertilizer for stabilizing upland rainfed farming in the dry zone of Sri Lanka.	1986 3 yrs.	692,200.00
CIDA/87/23	Mr. Nihal Welikala Dr. H. Somapala Ms. Y. Jayasooriya Regional Agric. Research Centre Makandura, Gonawila (N.W.P)	Relationship between soil potassium & response of sweet potato to added potassium fertilizers	1987 2 yrs.	345,000.00
CIDA/87/24	Mr. R. Senaratne Mrs. S.F.B.N. Gunawardene Fac. of Agriculture Univ. of Ruhuna Matara.	Competitive ability and N ₂ fixation of some cultivars of legumes in inter cropping systems as affected by the level of nitrogen & potassium & their interaction.	1987	1,005,750.00
CIDA/87/25	Dr. R. Seneviratne CARI, P.O. Box 11 Peradeniya.	Potassium needs of rice crop grown on some major soil types of Sri Lanka.	1987 3 yrs.	1,109,304/=
CIDA/87/26	Mrs. S.N. Harischandra Mr. J.B.D.S. Kahandawela Regional Agric. Research Centre, Bombuwela.	Effect of potassium on yield, quality & mineral nutrition of sweet potato, innala & colocasia	1987 3 yrs.	468,500/=
CIDA/87/27	Mrs. C. Jayasekera CRI, Bandirippuwa Estate Lunuwila.	Effect of N, K, Cl and Abscisis acid on drought tolerant characteristic of major varieties of coconut.	1987 3 yrs.	1,548,000/=

NARESA/SAREC ZOOLOGICAL SURVEY OF SRI LANKA

Ongoing Grants

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Total amount allocated for 1987
SAREC/11/ ZSSL/01	Dr. F. Ranil Senanayake Neosynthesis Research Centre.	Survey of the distribution of the Amphibians of Sri Lanka.	1986 2 yrs.	110,000/=
SAREC/11 ZSSL-03	Dr. Mangala de Silva Univ. of Peradeniya Peradeniya.	Systematics, Ecology and Distribution of Freshwater Fishers in the districts of Kandy, Kurunegala, Anuradhapura & Puttalam.	1986 3 yrs.	59,600/=
SAREC/11 ZSSL-04	Prof. H. Cruz Univ. of Peradeniya Peradeniya	Survey of parasites of Endemic & other Host animals of Sri Lanka, & preparation of Inventories of publications on Sri Lankan Fauna & of Animal Taxa of Sri Lanka.	1986 3 yrs.	40,912/=
SAREC/11 ZSSL-05	Dr. S.W. Kotagama Open University of Sri Lanka.	Zoological Survey of Sri Lanka. Distribution status & Abundance of birds of Sri Lanka.	1986 2 yrs.	210,000/=
SAREC/11 ZSSL/06	Dr(Mrs) H.M.R.K.Ekanayake Miss. M.M. Nugaliyedda Central Agri. Research Inst.	Island wide survey and identification of plant parasite nematodes in Sri Lanka.	1986 2 yrs.	80,000/=
SAREC/11 ZSSL-07	Dr. F.P. Amarasinghe Univ. of Peradeniya	A study of the Bionomics of Adult Mosquitoes at Sinharaja.	1987 1 year	65,200/=

Completed Grants

SAREC/11 ZSSL-02	Dr. M.W.R.N. de Silva National Aquatic Resources Agency.	Collection of marine Inver- tibrates of Sri Lanka (Phare I) Dondra to Kalpitiya as part of the Zoological Survey of Sri Lanka.	1985 2 yrs.	77,950/=
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Withdrawn Grants

SAREC/11 ZSSL/08	Dr. E.P. Amarasinghe Univ. of Peradeniya Peradeniya.	A catalogue of the Mosquitoes (Diptera culicidae) of Sri Lanka.	1987 1 year	5,000/=
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NARESA/SAREC INLAND FISHERIES RESEARCH PROGRAMME

Ongoing Grants (Extended for 2 years in 1986)

SAREC/10/IF/ 03	Prof. S.S. de Silva Prof. M.A. Pemadasa Univ. of Ruhuna.	Feasibility studies on the commercial exploitation of minor cyprinid fishery resources of perennial reservoirs.	1984 Sept. 3 yrs.	420,000/=
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NARESA/SAREC WATER BUFFALO RESEARCH PROGRAMME

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Total amount allocated for 1987
SAREC/09/ BF-25	Dr. S. Mahalingam Univ. of Peradeniya	Studies on viruses of the Alimentary tract of buffalo calves.	1986 2 yrs.	100,320/=
SAREC/09/ BF-26	Dr. C. Bogahawatta Univ. of Peradeniya	A comparative study of the micro-economics of Rural cattle & buffalo production.	1986 1 year	-
SAREC/09/ BF-27	Dr. W.I. Siriweera Dr. P.V.J. Jayasekera Dr. V.R. Amarasinghe Dr. W.M. Tillekeratne Univ. of Peradeniya.	A socio economic study of the utilization of buffaloes in peasant society.	1986 1 year	-
SAREC/09/ BF-20	Prof. B.M.A.O. Perera Dr. V.Y. Kuruwita Univ. of Peradeniya Dr. S.S.E. Ranawana Dr. M.C.L. de Alwis Vet. Research Inst., Gannoruwa.	'Establishment of a large buffalo Research Farm - Harangalla Estate, Kuliypitiya	1983 5 yrs.	140,000/=
SAREC/09/ BF-21	Dr. V.Y. Kuruwita Prof. B.M.A.P. Perera Univ. of Peradeniya	'Development of the Buffalo Research Farm, of Peradeniya'.	1983 5 yrs.	80,000/=
SAREC/09/ BF-23	Dr(Miss)C.P. Kodikara Dr. V.Y. Kuruwita Prof. B.M.A.O. Perera Univ. of Peradeniya	'Study of the composition of indigenous buffalo milk and changes in composition due to various factors'.	1985 2 yrs.	44,130/=
SAREC/09/ BF-24	Dr. V.Y. Kuruwita Prof. B.M.A.O. Perera Univ. of Peradeniya Dr. A.R. Mohamed Vet. Research Inst. Gannoruwa.	'A comparative study on Pubertal Development & Semen characteristics of indigenous	1985 2 yrs.	93,200/=
<u>COMMONWEALTH SCIENCE COUNCIL GRANT</u>				
CSC/86/8.1	Prof. K.T. de Silva Univ. of Sri Jayewardene pura Dr(Mrs) R. Herath Mrs. S. Wimalasena Univ. of Kelaniya Dr(Mrs) L. Arambewela CISIR Dr. U.V. Ratnayake Ayurveda Drugs Corp. Dr. B.M.R.S. Dissanayake Dr. S.G. Ranasinghe Inst. of Indigenous Medicine.	Pharmacognostic Authentica- tion & standardisation of crude Drugs from Zingibera- case & Rutaccae, & the conservation of the germplasm & Herbarium species of these medicinal plants.	1986 3 yrs.	253,200/=

Ongoing Grants (with available funds)

Ref. No.	Name & Institution	Title of Project	Year of Award & Proposed duration	Total amount allocated for 1987
SAREC/09/ BF-01	Dr. A.R. Mohamed Vet. Research Inst.	Reproductive physiology of swamp & river buffaloes.	1983 3 yrs.	-
SAREC/09/ BF-03	Dr. D.J. Weligama Vet. Research Inst.	Studies on theileriosis in buffaloes	1983 3 yrs.	-
SAREC/09/ BF-14	Dr. D.D. Manasinghe Vet. Research Inst. Gannoruwa.	'Survey of incidence and aetiology of mastitis in buffaloes'	1985 1 year	-
SAREC/09/ BF-16	Dr. E.F.A. Jalathge Vet. Research Inst. Gannoruwa.	Growth reproduction & the overall economics of Lanka buffalo in relation to management & feeding systems'	1983 3 yrs.	-
SAREC/09/ BF-17	Mr. S.K. Seneviratna Dr. M.N.H. Ibrahim Univ. of Peradeniya	'Evaluation of draught capabilities of buffalo breeds under varying conditions'	1983 3 yrs.	-

Ongoing Grants - Extended for 2 years

SAREC/09/ BF-02	Prof. B.M.A.O. Perera Univ. of Peradeniya	Clinical & hormonal studies on the reproductive functions of indigenous buffaloes in Sri Lanka.	1983 3 yrs.	204,400/=
SAREC/09/ BF-04	Prof. S.T. Fernando Univ. of Peradeniya	Pathophysiology, immunology, treatment & prevention of <u>Neoscaris vitulorum</u> and other intestinal nematodes affecting buffalo calves within first three months of birth.	1983 3 yrs.	254,520/=
SAREC/09/ BF-06	Dr. S.S.E. Ranawana Vet. Research Inst.	Mineral nutrition in the buffalo	1983 3 yrs.	12,500/=

Ongoing Grants - Extended for 1 year

SAREC/09/ BF-09	Dr. M.C.L. de Alwis Vet. Research Inst.	Epozootiological & pathological studies on haemorrhagic septicaemia in Sri Lanka.	1983 3 yrs.	-
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Completed Grants

SAREC/09/ BF-12	Dr. G.S. Peiris Vet. Research Inst.	Studies on infectious conditions of infertility in the buffalo.	1983	-
SAREC/09/ BF-22	Mr. T.B. Subasinghe Agrarian Research & Training Inst.	'The study of draught animal systems'	1984 2 yrs.	-

Table 2 Participation at Conferences, Seminars and Workshops Overseas
During 1987 on the Nomination of NARESA

Subject and Period	Awarding Agency	Nominees
(1) Training Course on Mini/Micro Version of the CDS/ISIS Software. Bangkok, 19-31 January 1987	UNESCO	Mr B.G.N. Kumarasingha, Documentalist
(2) 4th Regional Task Force Meeting of the Mangrove Project, Ranong, Thailand, 18-19 May 1987	UNESCO	Dr S. Liyanage, Asst. Director/Scientific Affairs
(3) Technology Transfer in the Health Field, Japan, 13-17 July 1987	WHO	Dr R.P. Jayewardene Director General
(4) 5th International Conference of Scientific Editors. Hamburg-West Germany, 14-19 June 1987.	UNESCO	Mrs N.R. Amarasuriya Asst. Director (Publications)

Subject and Period	Awarding Agency	Nominees
<p>(5) 8th International Seminar on Environmental Impact Assessment. Scotland, 12-25 July 1987</p>	<p>UNDP</p>	<p>Mr D.E.F. Fernandez Director/Scientific Affairs</p>
<p>(6) Regional Workshop on Science & Technology Indicators and their Use in Socio-economic Planning Jakarta, 21-24 July 1987</p>	<p>UNESCO</p>	<p>Dr S. Liyanage Asst. Director/Scientific Affairs</p>
<p>(7) Experts Group Meeting on Data Communications and Information Exchange Network Development. Beijing. China. 2-4 September 1987</p>	<p>UNESCO and ISTIC</p>	<p>Mr N.U. Yapa Director, Information</p>
<p>(8) 9th Meeting of the Association for Science Cooperation in Asia (ASCA). Malaysia, 12-17 October 1987</p>	<p>Ministry of Science, Technology and the Environmental Malaysia</p>	<p>Dr R.P. Jayewardene Director General</p>
<p>(9) Regional Seminar on Development of Informatic Policy. Maldives, 26-28 October 1987</p>	<p>UNESCO Regional Office of Science and Technology for South and Central Africa (ROSCA)</p>	<p>Mr L.C.A. de S. Wijesinghe Addl. Director General</p>

Subject and Period	Awarding Agency	Nominees
(10) 5th ASTINFO Consultative Meeting and Regional Seminar Bangkok, 6-13 October 1987	UNESCO	Mr N.U. Yapa Director, Information
(11) (IFS) General Assembly Panama City, 8-13 November 1987	International Foundation for Science (IFS)	Mr M.A.T. de Silva Deputy Director General
(12) Advance Training Seminar on Micro CDS/ISIS Library Software	Library and Archives Division UNESCO	Mr B.G.N. Kumarasinghe Documentalist
(13) SAARC Workshop on Women in Science and Technology 16-19 November 1987	SAARC	Mrs N.R. Amarasuriya

NATURAL RESOURCES ENERGY & SCIENCE AUTHORITY OF SRI LANKA

Balance Sheet as at 31st December 1987

	Cost as at 01.01.87	Additions disposals during the year	Accumulated Depreciation	Net Balances as at 31.12.87
Represented by Fixed Assets				
Buildings	2,381,253.06	18,280.50 (10,018.00)	1,056,290.00	1,344,243.56
Office Equipment & Furniture	1,493,820.64	155,637.58	1,239,047.00	400,401.22
Motor vehicles	1,556,246.58	48,500.00	1,127,989.75	476,756.85
Motor Bicycles	51,425.00	63,500.00	64,125.00	50,800.00
Bicycles	4,273.60	5,065.00	5,539.60	3,799.00
Sports Equipment	1,504.00	-	1,504.00	-
		(115.00)		
Accessories & Miscellaneous	74,628.10	19,834.25 (472.50)	66,049.00	28,208.35
Library Books	1,155,128.62	42,672.50	-	1,197,328.62
Scientific & Laboratory equipment out on loan	11,496,055.86	5,403,587.20	6,145,137.50	10,754,505.56
Documentation equipment	3,553,648.10	200,736.50	2,205,403.00	1,548,979.60
	21,767,983.56	5,948,216.03	11,911,086.83	15,805,112.76
Telephone Installation				13,953.64
				15,819,066.40
Current Assets				
Stocks		457,020.34		
Debtors		1,044,985.08		
Prepayments		1,716,770.28		
Deposits		64,353.45		
Treasury Deposit		20,453,554.21		
Balance at Bank A/C No. 4530800224	2,361,980.46			
	188,456.04			
Petty Cash	10,000.00			
Cash In Hand	267.42			
Fixed Deposit	12,000.00			
		2,572,703.92		26,309,387.28
				42,128,453.68

R.P. Jayawardene
 Director - General
 Natural Resources, Energy and Science
 Authority of Sri Lanka,
 47/5, Malindiv Place,
 Colombo 5.

NATURAL RESOURCES ENERGY & SCIENCE AUTHORITY OF SRI LANKA

Income & Expenditure A/C for the year ended 31st December 1987

As at 31.12.86				
3,420,000.00	Drawings from Treasury			3,990,000.00
23,882.00	<u>Income for the year</u>			
208,430.00	Interest received		21,302.88	
73,415.00	Sundry Income		167,462.42	
11,234.00	Sale of publications		128,142.17	
99,105.00	Photocopy receipts		12,912.75	
-	Receipts from printing outside jobs		106,499.66	
-	Profit on sale of fixed assets		18,915.00	
3,836,066.00	10% Foreign aid administration cost		<u>1,217,960.00</u>	1,673,354.88
	Less: Expenditure for the year			3,663,354.88
24,330.00	Council Expenditure			
11,674.00	Travelling & allowance for Authority members	21,411.30		
36,204.00	Entertainment	<u>10,084.20</u>		31,495.50
	<u>Staff Emoluments</u>			
2,149,351.00	Salaries & allowances	2,221,342.61		
393,312.00	Employees provident fund	366,364.87		
82,250.00	Employees Trust Fund	72,662.84		
23,613.00	Retiring Gratuity	51,544.96		
59,708.00	Provision for retiring gratuity	50,363.77		
<u>98,937.00</u>	Overtime	<u>70,766.46</u>		2,833,065.11
2,767,671.00				
	<u>Office Administration</u>			
3,757.00	Travelling	11,827.87		
99,925.00	Stationery & Consumables	198,034.46		
217,408.00	Electricity	97,536.15		
114,698.00	Telephone	120,421.81		
72,353.00	Postage	72,254.81		
<u>9,500.00</u>	Audit fees	<u>42,625.00</u>		
	Total C/F	542,720.10		2,864,560.61
				<u>3,663,354.88</u>

975.00	Balance	B/F	542,720.10	2,864,560.61	5,663,354.88
6,993.00	Bank charges		1,387.50		
35,994.00	Medical expenses		9,939.30		
109,360.00	Advertising		54,400.00		
36,128.00	Maintenance of Motor vehicles		247,864.07		
135,550.00	" " Office equipment & furniture		42,521.23		
2,125.00	" " Office Building		49,036.55		
51,701.00	Staff Welfare		1,775.00		
434.00	Insurance		58,284.67		
634.00	Water Consumption		478.19		
12,198.00	Bad Debts				
585.00	Provision for Doubtful debts				
	Loss of Calculator				
	Loss of stocks		472.00		
102,069.00	Security services		115,687.12		
2,051,850.00	Depreciation		2,648,831.00		
81,412.00	Sundry expenses		50,411.25		
3,558.00	Custom Duty & B.T.T		<u>7,833.91</u>	<u>3,831,641.89</u>	<u>6,666,202.50</u>
5,953,083.00					<u>1,032,847.62</u>
2,117,017.00	Excess of expenditure over Income				<u>7,002.12</u>
80,796.00	Less Creditors written off				
170,003.00	Prior year adjustments (net)				<u>1,025,845.50</u>
1,866,218.00					

Notes on Accounts

1. General Accounting: The financial statements have been prepared in accordance with generally accepted accounting principles on a historical cost basis. The fundamental accounting assumptions & policies relevant in accounting have been adhered to on a consistent basis as in the previous year.

The ten percent of foreign donor funds received, which is for covering overheads, has been taken credit in the Income and Expenditure statement.

1.1 Documentation Unit Capital Fund Expenditure

1.	SLSTIC	Equipment	200,736.50
2.	"	Books & Periodicals	251,853.66
3.	"	In House Printing & Binding	34,443.83
4.	"	Consumables	229,345.54
5.	"	Miscellaneous	30,347.50
6.	"	Services	435.00
7.	"	Publications & Publicity	125,404.25
8.	"	Maintenance & Repairs	<u>100,008.33</u>
			972,574.61
	<u>Less:</u>	Cost of Documentation Equipment & library books	<u>242,890.75</u>
			729,683.86
	<u>Less:</u>	Prior year adjustments (cancelled cheques)	<u>25.00</u>
			<u>729,658.86</u>

1.2 Research Grants Expenditure

	Actual Expenditure for the year	2,235,587.12	
	<u>Add:</u> Expenditure on grants terminated & completed before 87	<u>3,499.50</u>	2,239,086.62
	<u>Less</u> Cost of scientific Equipment acquired during the year		<u>287,647.77</u>
			1,951,438.85
	<u>Add:</u> Provision for balance funds		<u>1,314,412.88</u>
			3,265,851.73
	<u>Less:</u> Net prior year adjustments		<u>25,132.38</u>
			<u>3,240,719.35</u>

1.3 MAB Expenditure

MAB/74/5	32,250.00
MAB/81/2	76,104.69
MAB/85/01	39,724.80
MAB/85/02	15,344.65
MAB/86/01	39,965.48
MAB National Committee	<u>14,811.90</u>
	<u>218,201.52</u>

1.4 Miscellaneous Fund Expenditure

1. Awards for outstanding Research work	51,091.00
2. Participation in International Scientific work	152,286.13
3. Seminars & Symposias	44,489.68
4. Subscriptions to International Scientific Unions	307,229.50
5. Special Research Projects :	
1. SAREC/11/ZSSL/2,3,4, & 8	131,173.66
2. STP Survey	2,813.50
3. Mangrove Commission	<u>8,220.25</u>
	<u>697,303.72</u>

1.5 Foreign Aid Expenditure

1. Advisory & Buffalo Research Working Committee	12,036.25
2. ACIAR Project Expenditure	305,231.36
3. CIDA	4,681,946.11
4. SAREC	4,152,594.60
5. RG/AID	3,346,022.83
6. WHO/86/01	123,632.35
7. UNESCO/86/PP/01	263,753.00
8. RG/87/AG/3	77,412.15
9. RG/87/IS/01	83,199.50
10. RG/87/NORAD/SS/08	<u>37,691.76</u>
	13,083,519.10

<u>Less:</u> Cost of Scientific Equipment, Motor Vehicles and Bicycles acquired during 87	<u>5,193,789.43</u>
48,892/- + 3,224,602.87 + 1,131,347.44 + 710,344.86 + 78,602.26	7,889,730.48
<u>Less</u> Prior year adjustments	169,569.51
Money received from sale of products	<u>22,992.00</u>
	<u>192,561.51</u>
	<u>7,697,168.97</u>

1.6 Working Committees Fund Expenditure

1. Agriculture & Animal Husbandry Working Committee	4,714.75
2. Biological Sciences Working Committee	21,505.55
3. Chemical Sciences Working Committee	102,812.34
4. Editorial Committee	1,202.30
5. Medical & Vet. Sciences Working Committee	20,752.80
6. Natural Resources Working Committee	2,696.00
7. Physical & Engineering Sciences Working Committee	15,613.40
8. Social Science Research Working Committee	5,796.75
9. Science Education Research Working Committee	91,878.45
10. Science Information Working Committee	27,740.20
11. Working Committee on Energy	2,258.00
12. Mangrove Survey	<u>22,620.28</u>
	319,590.82
<u>Less: Prior year adjustments (credit)</u>	<u>247.50</u>
	<u>319,343.32</u>

2. Assets & the basis of their valuation

Depreciable assets & Depreciation: Depreciation has been provided on original cost or at valuation on a straight line basis consistent with that of the previous years & is calculated to write off the assets over their estimated useful lives.

2.1 Debtors

Total Debtors	1,070,762.65
<u>Less: Provision for doubtful debts</u>	<u>25,777.57</u>
	<u>1,044,985.08</u>

3. Liabilities & Provisions

3.1 Creditors

Creditors amounting to Rs. 184,246.11 represents NARESA monies held by on behalf of 7 projects given below.

NTIS creditors	4,235.75
Reserves for NTIS lending of books programme	597.37
CANLIT	5,843.25
CINTEC	9,375.00
Mini Micro CDS/ISIS	14,702.82
RINSCA	17,990.67
Funds received for MAB delegation visit	<u>131,501.25</u>

These sums will be expended as the programmes advance.

3.2 Provisions

Provisions included the provisions made for the balance funds allocated to the various research grants and not utilized during the current year, but allowed on principle to be utilized in future, during the currency of the grant.

3.3 Employees' Benefit

All employees are covered by EPF & ETF.

3.4 Retiring Gratuity

Provision has been made in the accounts in respect of liability for retiring gratuity.

2:2 Financial Results

The activities of the Authority are operated on a General Fund and Special Funds. According to the accounts, the working of the Authority for the year ended December 31, 1987 under the General Fund resulted in an excess of expenditure over income of Rs.1,032,848 as compared with an excess expenditure of Rs.2,117,017 for the preceding year. The working of the Authority under Special Funds disclosed an excess of income over expenditure of Rs.5,968,063 as compared with a surplus income of Rs.12,245,282 for the preceding year.

The following statement gives a summary of the financial results of the General Fund of the Authority for the year under review and the preceding year.

	<u>Year ended December 31.</u>					
	Rs.	<u>1987</u>	Rs.	Rs.	<u>1986</u>	Rs.
<u>Income</u>						
Government Grant for						
Recurrent Expenditure	3,990,000			3,420,000		
Interest Received	21,503			23,882		
Sale of Publications	128,142			73,414		
10 per cent Foreign Aid						
Administrative Expenses	1,217,960			-		
Income from photo-copying services	12,913			11,234		
Profit from the sale of Fixed Assets	18,915			-		
Printing and Extraneous Income	106,460			99,105		
Others	<u>167,462</u>			<u>208,431</u>		
		5,663,355			3,836,066	
<u>Less: Expenditure</u>						
Staff Emoluments	2,833,065			2,767,671		
Office Administration	3,831,642			3,149,208		
Members Expenses	<u>31,496</u>			<u>36,204</u>		
		<u>6,696,203</u>			<u>5,953,083</u>	
Excess of Expenditure Over Income		1,032,848			2,117,017	
Add/Less: Adjustments in respect of preceding year		<u>(7,002)</u>			<u>250,798</u>	
		1,025,846			1,868,215	

4 The financial results of each of the Special Funds for the year under review and the preceding year are given below :

	<u>Year ended December 31</u>	
	<u>1987</u>	<u>1986</u>
	Rs.	Rs.
1. <u>Documentation Unit</u>		
<u>Capital Fund</u>		
<u>Income</u>		
Government contribution-		
Consolidated Fund	975,000	1,000,000
UNESCO Grant	<u>286,120</u>	<u>-</u>
	1,261,120	1,000,000
<u>Less: Expenditure for</u>		
<u>the year</u>	<u>729,659</u>	<u>709,250</u>
Excess of Income over		
Expenditure	531,461	290,750
2. <u>Research Grants</u>		
<u>Fund</u>		
<u>Income</u>		
Government contribution-		
Consolidated Fund	3,550,000	3,000,000
<u>Less: Expenditure,</u>		
<u>for the year</u>	<u>3,240,719</u>	<u>2,143,008</u>
Excess of Income over		
Expenditure	309,281	856,992
3. <u>Man and the Biosphere</u>		
<u>Fund</u>		
Government Contribution-		
Consolidated Fund	300,000	350,000
Funds from the Mahaweli		
Authority	38,000	75,000
Treasury Deposits and		
UNESCO Grants	<u>-</u>	<u>125,200</u>
	338,000	550,200
<u>Less: Expenditure for</u>		
<u>the year</u>	<u>218,202</u>	<u>250,558</u>
Excess of Income		
over expenditure	119,798	299,642

4. Miscellaneous FundIncome

Government Contribution - Consolidated Fund	740,750	875,000
Receipts from Assets	<u>-</u>	<u>116,960</u>
	740,750	991,960
Less: Expenditure for the year	<u>697,304</u>	<u>760,239</u>
Excess of Income over Expenditure	43,446	231,721

5. Working Committee FundIncome

Government Contribution - Consolidated Fund	375,000	400,000
Less: Expenditure for the year	<u>319,343</u>	<u>435,492</u>
Excess of Income over Expenditure/(Deficit)	55,657	(35,492)

6. Foreign Aid FundIncome

Government Contribution	10,982,040	10,000,000
Treasury Deposits	1,228,647	5,378,700
Others	<u>394,902</u>	<u>-</u>
	12,605,589	15,378,700
Less: Expenditure for the year	<u>7,697,169</u>	<u>4,776,031</u>
Excess of Income over Expenditure	<u>4,908,420</u>	<u>10,602,659</u>
Excess of Income over Expenditure of the Special Funds (Total)	<u>5,968,063</u>	<u>12,245,282</u>

(6.)
The net expenditure of the Seven Funds during the year under review as compared with the expenditure during the preceding year is given below:

Contd../05

	<u>Net Expenditure</u>			
	<u>1987</u>		<u>1986</u>	
	Rs.	Rs.	Rs.	Rs.
<u>Documentation Unit</u>				
<u>Capital Fund</u>				
Expenditure for the year	972,575		765,713	
Adjustments in respect of the preceding year	(25)		(1,888)	
Acquisition of Fixed Assets	(242,891)		(49,101)	
Expenditure of the NTIS Fund	<u>-</u>	729,659	<u>(5,474)</u>	709,250
<u>Research Grants Fund</u>				
Expenditure for the year	2,235,587		1,755,813	
Adjustments in respect of the preceding year (Net)	(25,132)		50,494	
Balances of the provi- sions for the year	1,314,413		605,862	
Expenditure met out of the provisions of the preceding years	3,499		3,055	
Acquisition of Fixed Assets	<u>(287,648)</u>	3,240,719	<u>(272,216)</u>	2,143,008
<u>Man and the Biospher Fund</u>				
Expenditure for the year	218,202		266,339	
Adjustments in respect of the preceding year	-		(2,375)	
Acquisition of Fixed Assets	<u>-</u>	218,202	<u>(13,406)</u>	250,558
<u>Miscellaneous Fund</u>				
Expenditure for the year	697,304	697,304	760,239	760,239
<u>Scientific Manpower Project Fund</u>				
<u>Working Committee Fund</u>				
Expenditure for the year	319,590		447,080	
Adjustments in respect of the preceding year	<u>(247)</u>	319,343	<u>588</u>	436,492

Foreign Aid Fund

Expenditure for the year	13,083,519		6,946,067	
Adjustments in respect of the preceding year	(169,569)		(2,478)	
Proceeds from the sale of produce	(22,992)		-	
Acquisition of Fixed Assets	(5,193,789)	7,697,169	(2,167,558)	4,776,031
		12,902,396		9,075,578
		=====		=====

2:3 Financial Structure:

The financial structure of the Authority as at December 31, 1987 as compared with that as at December 31, 1986 is given below.

	<u>As at December 31,</u>	
	<u>1987</u>	<u>1986</u>
	Rs.	Rs.
<u>Resources</u>		
General Fund of the Authority	7,915,541	8,941,387
Special Funds	31,698,508	25,730,445
	<u>39,614,049</u>	<u>34,671,832</u>
	=====	=====

Utilisation

Fixed Assets at written down value	15,819,066	12,509,556
Net Current Assets	<u>23,794,983</u>	<u>22,162,276</u>
	39,614,049	34,671,832
	=====	=====

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2:4 Source and Application of Funds

The following statement shows the source and application of funds of the Authority during the year under review.

	Rs.	Rs.	Rs.
<u>Source</u>			
Contribution from Government			
Consolidated Fund			5,940,750
Foreign Aid			12,505,589
Funds received from Mahaweli			
Authority and UNESCO Grants			<u>224,120</u>
			12,870,459
 <u>Application :</u>			
Excess of Expenditure over Income of the General Fund for the year		1,032,848	
Adjustments in respect of the preceding year		<u>(7,002)</u>	
		1,025,846	
 Less: Adjustments not involving movement of funds :			
	Rs.		
Depreciation		2,648,831	
Assets written off	10,597		
Less: Provision for Depreciation in respect of assets written off	<u>10,125</u>	<u>472</u>	<u>2,649,303</u>
			(1,623,457)
Net Expenditure of special funds		12,902,396	
Acquisition of Fixed Assets		<u>5,958,813</u>	<u>18,861,209</u>
Increase in working capital as analysed below			<u>17,237,752</u>
			1,032,707
			=====
 <u>Effect on Working Capital</u>			
	<u>Increase</u>	<u>Decrease</u>	
	Rs.	Rs.	Rs
Stocks	131,934	-	
Debtors	191,174	-	
Prepayments	-	623,227	
Deposits Receivable	6,950	-	
Treasury Deposits	1,228,647	-	
Cash and Bank Balances	783,530	-	
Sundry Creditors	-	177,979	

Provisions	-	19,795	
Accrued Expenses	173,473	-	
Donations Fund	-	12,000	
Deposits Refundable	-	50,000	
	<u>2,515,708</u>	<u>883,001</u>	<u>1,632,707</u>

2:5 Comments on Accounts:

2:5:1 Balances not brought to Account:

The value of shortages aggregating Rs.918 and excesses aggregating Rs.371 revealed at the stock verifications during 1982 and 1983 had not been brought to account.

2:5:2 Lack of Evidence for Audit:

The following items could not be satisfactorily vouched or accepted in audit due to the reasons indicated against each item.

<u>Item</u>	<u>Value</u> Rs.	<u>Evidence not made</u> <u>available for audit</u>
1. Petty Cash Imprest granted for Research grants	702,656	Non-availability of confirmations in respect of an imprest amount in to Rs.134,460 representing nineteen per cent (19%) of the total value.
2. Deposits and Sundry Debtors	214,123	Non-availability of confirmations
3. Sundry Creditors	184,246	- do -
4. Vehicle maintenance expenses	247,864	Non- rendition of certain Daily Running Charts.

2:5:3 Omission:

Fixed assets valued at Rs.101,671 purchased during the year had not been recorded in the Register of Fixed Assets.

2:5:4 Instances of non-compliance with Objectives, Statutes, Laws, Rules, Regulations and Management Decisions:

Although all imprests out of which expenditure had not been incurred during three months should be refunded in full in terms of Circular No.A/04 of the Authority, the total of such imprests remaining unsettled aggregated Rs.157,862.

3. Financial and Operating Review:

3:1 Financial Results.

According to the Accounts the financial result for the year under review was a deficit of Rs.1,032,848 as compared with a deficit of Rs.2,117,017 for the preceding year. The favourable variance amounting to a decrease of Rs.1,084,169 can be analysed as follows.

	<u>Variance</u>	
	<u>Favourable</u>	<u>Adverse</u>
	Rs.	Rs.
Income for the year	1,827,289	-
Committee Expenses	4,708	-
Employees' Expenses	-	65,394
Office expenses	-	582,474
	<u>1,831,997</u>	<u>747,828</u>
<u>Less:</u>		
<u>Adverse Variance</u>	<u>747,828</u>	<u>747,828</u>
	1,084,169	
	=====	

3.2 Research Projects:

The Authority carries out its research activities by way of research grants made to individuals and institutions. Out of the research projects for the years 1979 to 1987, 176 research projects valued at Rs.11,994,967 had been in progress as at December 31, 1987. Out of these, 27 projects valued at Rs.634,400 had not been completed on the due dates. Delays ranging from 1 year to 5 years had been observed in connection with these projects but no action had been taken in regard to delays.

3:3 The position in regard to the use of the vehicles of the Authority during the year under review is given below:

Type of Vehicle	Number of Vehicles	Distance travelled as per Daily Running Charts	Quantity of fuel consumed	Total expenditure on fuel	Average performance per litre	Average expenditure on fuel per Kilometer
		K.m.	Lit	Rs.	K.m.	Rs.
Mitsubishi Vehicles	4	56,953	4,327.2	59,636.57	13.16	0.70
Mitsubishi Van	1	4,673	870.9	11,959.50	5.36	2.55
Mitsubishi Waggon	1	44,876	3,394.75	36,047.24	13.21	0.70
ancer Cars	2	17,502	1,928.55	26,792.50	5.07	1.55
onda Motor Cycles	2	11,601	316.00	4,269.76	36.71	0.37

Expenditure aggregating Rs.247,864 had been incurred on maintenance of motor vehicles. The Authority has released one double cab and two Honda Motor Cycles to the University of Peradeniya and one Motor Cycle to the Ruhuna University but details of expenditure on these vehicles and the distances travelled had not been made available.

The following weaknesses were observed at an examination of the Daily Running Charts of some of the vehicles.

1. The number of Kilometres as per meter readings revealed a net increase of 1,740 kilometres over that as per Daily Running Charts.
2. Number of litres of fuel consumed had not been recorded continuously in the Daily Running Charts.

This analysis indicates the existence of irregularities relating to the consumption of fuel and use of vehicles.

3:4 Budgetary Control.

In view of the non-preparation of estimates of income and the significant variances between the estimated expenditure and the actuals, the budget cannot be considered to have been made use of as an instrument of control. ✓

3:5 Cost of Personnel:

The cost of salary per employee for 1987 and 1986 is given below.

	<u>1987</u>	<u>1986</u>
<u>Executive Officers:</u>	31	32
	Rs.	Rs.
Cost of Salary	1,034,253	1,007,147
Cost per officer	33,363	31,473
<u>Clerical and Allied Grades</u>		
Number	43	43
	Rs.	Rs.
Cost of salary	777,586	755,312
Cost per officer	18,083	17,564
<u>Labour, Drivers, Karyala</u>		
<u>Karya Sahayaka and</u>		
<u>Allied Minor Grades:</u>		
Number	22	22
	Rs.	Rs.
Cost of salary	358,808	343,234
Cost per employee	16,309	15,601

4. Systems and Controls:

Deficiencies observed during the course of audit were referred to in my detailed report furnished to the Authority. Special attention is needed in respect of the following areas of control.

1. Stock Control.
2. Research Projects.
3. Maintenance of Vehicles.
4. Budgeting.

W. Gamini Epa
Auditor General.

Comments of the Authority on the Audit Report for the year ending 31.12.87

2.5.1 Balances not brought to Accounts

These errors in identifying and accounting the reported shortages & excesses have been taken into account and rectified correctly in the board of survey report for the year 1987. As such the necessity to adjust ledger balances does not arise.

2.5.2 Lack of evidence for Audit

(1) Petty cash imprest granted for research grants - Rs. 702,656/=

Petty cash imprest amounting to Rs.568,196/=, which is equivalent to 80.9% of the total amount expended as petty cash imprest have confirmed their balances.

(2) Deposits and Sundry Debtors - Rs.214,123.06

More than 61% of the total debtors is represented by foreign cheques not realized as on 31.12.87 and as such we were not able to obtain their confirmation. The balance amount is mostly owed to us by different government departments, who have in the past rarely responded to our request for confirmation.

(3) Sundry Creditors - Rs. 184,246/=

This represents monies received in advance by NARESA for 7 projects detailed in the notes to accounts no. 3.1.

(4) Vehicle Maintenance expenses - Rs.247,868/=

All running charts relating to the Authority vehicles are available in the administration section. The amount stated should be Rs. 247,864/=.

2.5.3 Omission

The purchase of fixed assets valued at Rs.101,671/= during the year have now been recorded in the fixed assets register.

2.5.4 Instances of non-compliance with objectives statues, laws, rules, regulations and management decisions

In spite of repeated reminders to grantees, to follow our circular A/04 with regard to cash imprest given to them, a few grantees have failed to adhere to our request.

3 Financial and operating review

3.1 Financial result

The net variance reported is favourable.

3.2 Research Projects

This authority awards grants to individuals in Universities and government sponsored institutions only. As on 31.12.87 there were 176 research projects in progress of these, only of 27 research grants the official duration had expired.

The status of the 27 research projects as reported by us to the auditors on 5th October 1988, were as follows:

Grants completed	10
Grants completed & awaiting the final report	10
Grant for which official extension had been given	1
Grant amalgamated to another grant	1
Grants for which action is being taken to terminate	3
Grants terminated	<u>2</u>
	<u><u>27</u></u>

3.3 Use of Vehicle of Grantees

We have given only three motor cycles to University grantees - one vehicle to a Ruhunu University grantee and two vehicles to Peradeniya University grantees.

Some of these grantees failed to submit running charts regularly in time and in spite of several reminders by the administration section. All running charts which were received have been properly accounted and are now available in the administration section.

3.4 Budgetary Control

Our main sources of income is by way of government grant and foreign aid on approved projects. These have been wisely spent in accordance to the progress of each research projects based on budgets allocated to obtain the optimum result.

4. Systems and Controls

The deficiencies reported were corrected and special attention will be rendered to maintain the level of systems of controls satisfactorily.