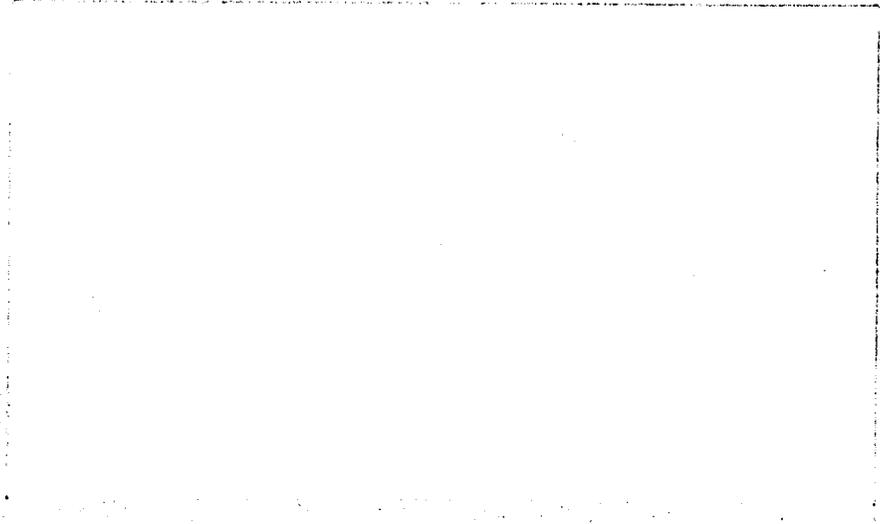
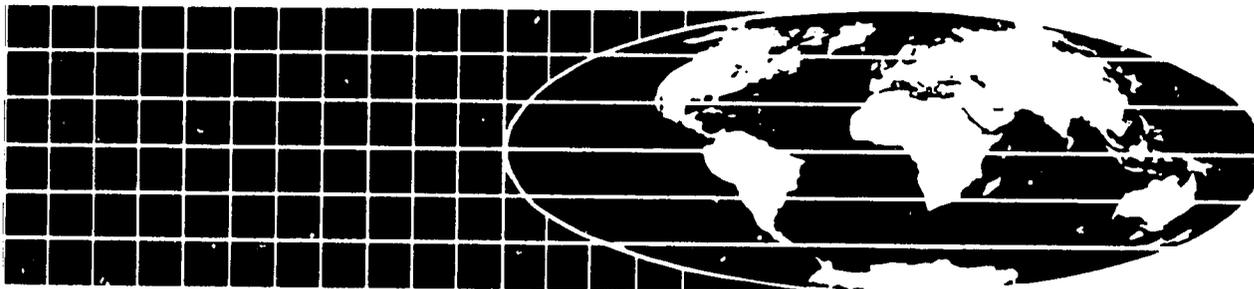


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International Coastal Resources Management Project

The University of Rhode Island

Funding provided by the Office of Forestry, Environment and Natural Resources,
Bureau of Science and Technology, U.S. Agency for International Development

The four major goals of the AID/URI Coastal Resources Management Project (CRMP) are: 1) to apply, as appropriate, existing experience in coastal resources management to developing countries; 2) to assist three developing nations in the design and implementation of integrated coastal resources management programs; 3) to advance the state-of-the-art of coastal resources management in developing countries; and 4) to build URI's capability to assist developing nations with coastal resources management.

The CRMP will work with the cooperating pilot countries to:

- develop procedures for the assessment of the impacts of coastal development proposals
- develop institutional and technical solutions for resource use conflicts
- support research to better understand the issues that affect the condition and use of coastal ecosystems
- improve the capabilities of in-country professional staff to plan for and manage coastal development

The countries selected for pilot projects are Ecuador, Sri Lanka and, tentatively, Thailand.

The AID/URI Coastal Resources Management Project is funded by the Office of Forestry, Environment and Natural Resources, Bureau of Science and Technology, U.S. Agency for International Development through a Cooperative Agreement with the International Center for Marine Resource Development, at The University of Rhode Island.

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Cooperative Agreement LAC-5518-A-00-5054-00

**Sri Lanka Pilot Project
Third Year Work Plan**

January 1, 1988 - December 31, 1988

SRI LANKA PILOT PROJECT COASTAL RESOURCES MANAGEMENT

THIRD YEAR WORK PLAN

The annual Work Plan and budget are hereby approved.



S.R. Amarasinghe, Director Coast Conservation



Nora Berwick, Project Officer AID/S & T/FENR



Malcolm Jansen, USAID Colombo



Stephen Olsen, International Project
Director URI

March 18, 1988

Colombo, Sri Lanka.

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1. INTRODUCTION

On November 4, 1985, a Memorandum of Understanding (MOU) was signed between the the Government of Sri Lanka (GSL) and the Government of the United States of America setting forth the understanding between the U.S. Agency for International Development, Bureau of Science and Technology, Office of Environment and National Resources (AID/S & T/FENR), the University of Rhode Island (URI) and the Sri Lanka Coast Conservation Department (CCD) with respect to the Sri Lanka Coastal Resources Management Project (CRMP). The MOU provides the broad framework covering objectives, financing and management of the CRMP. In the MOU, it was agreed that annual work plans and budgets will be prepared by URI in cooperation with GSL, USAID Colombo and AID/S & T/FENR. This document is the third such work plan for the Sri Lanka CRM pilot project.

2. SUMMARY OF PROGRESS

The focus of the second year was on undertaking the new initiatives described in the Sri Lanka Coastal Zone Management Plan, which was submitted for public review during May-August 1987. These included developing a devolution strategy for decentralizing the permit system and achieving district level coastal planning, expanding the program's capacity for research and policy development, following up on the research and planning priorities set in the May 1986 Habitats Workshop, beginning a public outreach program and expanding training activities.

Expenditures in Year 2(1987) were about half the planned level, reflecting the slow pace of initiating some of the major tasks. Most of the training activities were completed, such as support to post-graduate education of a CCD staff member, participation by several staff members in the May 1987 AID/URI Roundtable and Coastal Zone 1987 conference, starting the process of putting into place district level officer training, and a Sri Lankan post-graduate program in resources management. A Coastal Resources Unit was established at Kelaniya University but a proposal to create a CCD Technical Advisory Committee met with an unfavourable response.

About 420 permit applications were received by the CCD in 1987, the largest number ever. Progress was made on designing a computerized permit tracking system. A proposal to decentralize the coastal zone regulatory program was prepared and submitted to the relevant government authorities. This coincided with the adoption of the 13th Amendment to the Sri Lankan Constitution and the Provincial Councils Act which establishes elected Provincial Councils and administrative structures throughout the country. Discussions with government agents and district officers in several areas were initiated. However, there was no implementation of the proposals.

Additional work will be needed to complete production of the Plan and supporting documents in 1988. Amendments both to the Coast Conservation Act and the Plan will be required to reflect public comments and the 13th Amendment. A satisfactory public education and outreach plan was not formulated, preventing the initiation of a program with AID/URI funding. GSL however, conducted a program of public education utilizing the services of an advertising firm.

3. ELEMENTS OF THE THIRD YEAR WORK PLAN

In year 3, emphasis will be given on completing Year Two work tasks, along with broadening the scope of the program to include additional issues on coastal resources. These elements are :

- (1) To amend the Coast Conservation Act, revise the CZM Plan and print and distribute copies of the basic program documents;
- (2) To strengthen the implementing capacity of the CCD through a management review, computerized permit system, attachment of temporary personnel and using techniques for reducing the work required to process routine permits;

- (3) To design and implement a program to decentralize permit and planning activities in conjunction with assistance to the decentralized units for designing and implementing small scale, environmentally appropriate development projects;
- (4) To fully implement an environmental education and outreach program;
- (5) To expand training activities to include district officials and agencies with responsibility related to coastal management;
- (6) To initiate a policy development and planning program which will broaden the scope of the CRM project, emphasize the link between the economy and coastal resources, and serve as a bridge between the current AID/URI project and a new environmental management initiative proposed by the AID/Colombo Mission.

4. CRM PROJECT ASSISTANCE FUNDED THROUGH AID/URI CONTRIBUTION

4.1 In-Country Project Administration

The Cooperative Agreement between URI and AID calls for an In-Country Project Administrator to provide for the day to day management of this pilot project. This person is based in the CCD and works under the supervision of the CCD Director with periodic monitoring by the AID Project Liaison Officer. The Project Administrator is supported by Secretarial staff. A new project office will be established outside the CCD in order to accommodate the increased project activities and expanded number of participants in the Project.

(a) Objectives :

- i. To provide for the management of the AID/URI Coastal Resources Management Project in Sri Lanka as described in the Job Description;
- ii. To provide logistical and administrative support to the Project including book-keeping, grant reporting, and logistical arrangements for consultants;
- iii. To contribute to the development of CRM policy and administrative mechanisms for the effective implementation of Sri Lanka's Coastal Programme.

Contractor : URI has contracted with Bulathsinghalage Wilfred Perera to serve as the In-Country Project Administrator.

(b) Products :

- i. Periodic reports as described in the In-Country Administrator's Job Description including monthly expenditure reports, quarterly activity reports and annual progress reports;
- ii. Materials for inclusion in the Coastal Resources Management Project in the Administrator's area of expertise;
- iii. Fiscal expenditure records and statements necessary for maintaining proper accounts for the Project.

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4.2 Institutional Arrangements - Legal and Planning

Objectives :

- i. To make necessary amendments to the Coast Conservation Act;
- ii. To refine the Coastal Zone Management Plan and to print the Plan in English, Sinhala and Tamil;
- iii. To publish selected research documents prepared in support of the Coastal Zone Management Plan;
- iv. To prepare articles for a special issue of the Coastal Zone Management Journal focussing on the Coastal Zone Management Programme in Sri Lanka.

Work Task 1 : Amendments to the Coast Conservation Act

Draft amendments required to the Coast Conservation Act fall into three categories, viz: those recommended in the CZMP, amendments arising out of public comments and amendments required by the changes in the administrative structure as per the 13th Amendment to the Constitution. A Sri Lankan lawyer will be employed on contract to draft the required amendments, in consultation with a U.S. Legal Consultant (Mr. Baldwin).

Work Task 2 : Final editing and printing of CZM Plan

AID/URI will continue to assist the CCD in refining the CZM Plan and the preparation of the final camera ready version for printing. The printing of the CZM Plan will be funded by CSL.

Work Task 3 : Printing and distribution of documents supporting the CZM Plan

Several research/survey documents have been prepared in support of the CZM Plan. These include, the Map and Report on the Critical Habitats, the Report of the Survey of areas of Archeological, Historical and Scenic value, two reports on historical coastline

changes and the synthesis report on Critical Habitats. AID/URI, will provide assistance to the CCD to publish these documents. The editing and preparation of the final version of these reports will be undertaken by the authors.

Work Task 4 : Preparing sets of documents available at CCD

There are several other reports on studies and surveys undertaken by the CCD. Sets of these documents will be prepared and distributed to the relevant libraries.

Work Task 5 : Distribution of documents

Mailing lists for different categories of project documents will be prepared and utilized. AID/URI will contribute to mailing costs.

Work Task 6 : Preparation of articles for the special issue of the Coastal Zone Management (Journal)

This will be done with the assistance of Dr. Kem Lowry of the University of Hawaii, who will coordinate the preparation and editing of the issue. AID/URI will assist the CCD in preparation of these articles.

Products :

- i. A set of draft amendments to the Conservation Act for submission to the Legal Draftsman;
- ii. Final or provisional version of the CZM Plan in English, Sinhala and Tamil;
- iii. Printed versions of the selected reports in English;
- iv. Complete sets (25) of the documents available at CCD in Sinhala or English;
- v. Final version of articles to be sent to the editor of Coastal Zone Management.

4.3 Strengthening the implementing capacity of CCD.

Objectives :

- i. To improve the ability of the CCD Planning and Development Division staff to handle its regulatory and planning workloads;
- ii. To develop standard procedures and decision making rules for handling routine applications for permits and to computerize the permit handling system;
- iii. To acquire reference materials and publications for the CCD staff;
- iv. To provide basic support for the Coastal Resources Unit at Kelaniya University.

Work Task 1: Review of CCD Planning and Development Division

The Sri Lanka Institute for Development Administration (SLIDA) will be contracted to conduct a review of existing CCD working procedures, task assignment and individual staff workload in the Planning and Development Division of the CCD. SLIDA will make specific recommendations on the distribution of workload and assignments, procedures used in the permitting programme, and staffing needs to carry out the activities of the Division.

Work Task 2:

A Consultant will be appointed for the following :

- i. To analyse permit applications to identify the most common types of applications. Standard processing routines will be developed for such types of applications so that they could be processed in a routine manner;
- ii. Prepare developers guidelines for different groups of development activities. Such guidelines will inform developers of the CCD requirements for different types of development activities.

Work Task 3 : Acquisition of library materials

A list of needed reference works on Coastal Zone Management will be prepared by the CCD, along with the selection of key periodicals in order to enable the staff to be aware of current developments in Coastal Zone Management.

Work Task 4 : Recruitment of temporary personnel

Temporary persons will be recruited to assist CCD in implementation of the CZM programme.

Work Task 5 : Computerized permit management system

The volume of existing and past permits requires the use of microcomputer in order to efficiently store, retrieve and analyse the permits which have been issued and are under processing. The contractor LHI will write the storage and retrieval program, enter all past records, and train CCD staff to utilize and update the data base.

Work Task 6 : Core support for the Coastal Resources Unit

The Coastal Resources Unit at the University of Kelaniya was established in 1987. Core financial support for the part-time administrative staff will be provided.

Products :

- i. Recommended management improvements to CCD Division of Planning and Development by SLIDA;
- ii. Standards for routine permit applications by CCD;
- iii. Collection of new books and periodicals on CRM;
- iv. Additional staff to support public education program;
- v. Computerized database and information retrieval system for CCD permits by LHI;
- vi. Core support to the Coastal Resources Unit.

4.4 Strengthening CZ Management capabilities in Provinces and Districts

Devolution of CZ Management responsibility is proposed. In coastal areas where Provincial Councils are set up, total devolution of responsibility is proposed. In coastal areas where Provincial Councils are not set up, CCD proposes to decentralise by delegating regulatory functions as an initial step.

Objectives :

- i. To assist Provinces to undertake regulatory and coastal resource management functions;
- ii. To assist Districts to undertake regulatory functions;
- iii. To undertake needs assessment in Provinces and Districts and make arrangements for implementation of selected CZM Projects.

Work Task 1 : Devolution to Provinces

CCD will assess the capacity and resource availability in one or two Provincial Councils to undertake CZM functions. More specifically, CCD will assess the political and administrative organization in the Provinces, the availability of staff and finances to carry out these functions, and the planning and implementing arrangements. CCD will provide assistance to the Provinces to perform their functions in regard to the CZM programme. Development/management projects arising out of the provincial needs assessments will be designed and some initial funding provided.

Work Task 2 : District Delegation

CCD will, in selected Districts, assist the District administration to undertake regulatory functions. It will provide consultancy and staff support and training of District staff. Development/management projects arising from the District assessments will be designed and some initial funding provided.

Work Task 2 : Formulate a post-graduate program in Resources Management at the University of Kelaniya

Approvals from the University Senate, incorporation into the University Corporate Plan and approval by the University Grants Commission will be sought during the first half of 1988. Assistance will be provided for a planning workshop to design the course once approvals have been obtained.

Work Task 3 : Short term training for District Officers and Agency personnel

A two week training course on CRM issues and techniques sponsored by AID/URI will be held in the South Asia region in support of the Devolution and Long term planning work elements. Support will be provided for 10 District officers, 2 CCD officers and 3 officers from the Urban Development Authority (UDA) and the Central Environmental Authority (CEA) to attend the course in order to increase their motivation and ability to participate effectively in CRM program activities. Transportation, living expenses and course materials will be provided to the participants.

Design and coordination of the course will be the responsibility of the URI Training Coordinator. However, the content of the course will be drawn heavily from issues and materials in Sri Lanka. The cost of preparing these items is included in this worktask, such as, written case studies, audio-visual presentations, technical data for training exercises, maps and other visual aids utilizing Sri Lanka as an example.

Products :

- i. Post-graduate course curriculum on resources management at Kelaniya University;
- ii. Sri Lanka course materials for regional workshop;
- iii. Group of local officials trained in CRM;
- iv. Continued training of CCD Planning Officer;
- v. CCD participation at CZM conferences.

Work Task 4 : CCD participation in CZM conferences

International CZM conferences are to be held in Beijing, China in August 1988 and in Charleston, South Carolina, USA in June 1989. Support will be provided for participation by Sri Lankan CRM Project staff.

4.7 Integrated coastal policy development and planningObjectives :

- i. To develop the database for evaluating the economic significance of the coastal resources base and coastal activities;
- ii. To analyse the institutional setting for integrated coastal resources management and development in Sri Lanka;
- iii. To analyse national trends in the condition and use of coastal resources;
- iv. To identify sites for Special Area Management Plans;
- v. To promote participation by relevant government and non-government agencies through workshops at which the status of coastal resources, management issues and recommendations for integrated management and development could be discussed;
- vi. To produce a white paper and a series of supporting technical reports that will enable better understanding of the status of coastal resources and facilitate formulation of policy for management and development of these resources.

- Work Task 1 : This activity shall be planned on an eighteen month effort commencing in June 1988. A part-time coordinator for this activity will be retained. He/she will work closely with the ICPA to assure the efficient administration and implementation of this activity. The members of the interdisciplinary team required to carry out the activity shall be identified and detailed Terms of Reference prepared. The details of the work to be accomplished by team members, methods, timetables and coordinative mechanisms will be worked out and approved by the Director CCD and the URI Aid CRM Programme Director by June 1st, 1988.
- Work Task 2 : The ICPA will assume primary responsibility for an economic analysis of the economic significance of coastal related and coastal dependent activities in Sri Lanka. This will involve retaining consultants to regroup and analyse national accounts and other data to portray trends in relevant sectors. This analysis must be closely linked to other elements of this activity so that, where possible, the economic implications of trends in the condition of the resource base can be objectively evaluated. A URI resource economist will review the methods and findings of the in-country team and will provide technical assistance as required.
- Work Task 3 : An analysis of the governmental institutions, both at the central government and local level, relevant private sector groups and NGOO will be conducted to evaluate their current and potential roles in the appropriate development and management of coastal resources. The analysis will focus upon the key resource management and development issues in the Sri Lanka coastal zone.

Work Task 4 : Trends in the use of the resource base in the coastal region and the impacts (both adverse and beneficial) of such use will be documented. This analysis will focus on long term trends and will examine their economic and socio-political implications.

The documental will be in the form of a series of discussion papers suitable for use as background papers for workshops. The discussion paper will be prepared on the following grouping of types :

- fisheries, mariculture and coastal habitats;
- shorefront development and water pollution;
- sites of archeological significance and level of significance;
- coastal agriculture;
- population trends.

Based on the results of the workshops, a scenario will be developed that would examine the implications of development trends with a view to the preparation of a white paper titled 'State of the Coast - 1990'.

Work Task 5 : A series of roundtables and workshops shall be organized to provide forums at which the results of the various analysis and their implications can be discussed by representatives of relevant governmental agencies and private sector groups.

Products :

i. Reports on :

- the economic significance of coastal resources;
- the institutional context for integrated coastal resources management and development;
- preliminary findings on trends in the condition and use of the resource base.

- ii. Roundtable meetings and workshops on specific issues;
- iii. Initial drafts for a white paper tentatively titled 'The State of the Coast, 1990' will be circulated among project participants. The final version will be released in 1989.

5. ELEMENTS TO BE FUNDED BY GSL

The GSL has provided an allocation for annual expenditure in support of the CZMP. The budget allocations for 1988 will be approximately \$ 70,000.

5.1 In-Country Project Administration

GSL will continue to support the administration of the AID/URI project through provision of office space, transport, secretarial services and counterpart staff services. The Director CCD will make time available to take direct responsibility for Project Administration on behalf of GSL and will supervise the work of the In-Court Project Administrator on behalf of the URI Project Director. The estimated value of this in-kind contribution is around \$ 9,000.

5.2 Production of CZMP

The GSL Printing office will typeset, print and bind the approved or the provisional version of the CZMP.

5.3 Research in support of the CZMP

Work Task 1 : Delineation of the boundary between state and private lands in the Negombo coast protection scheme area.

This project commenced in 1987 and the fieldwork has been completed. Plans indicating the boundary between state and private lands are under preparation.

Contractor: Survey Department

Work Task 2 : Ecological history of the Negombo lagoon - the study commenced in 1987 and is due to be completed in October 1988.

Contractor : University of Kelaniya

Work Task 3 : Study on the coral based lime industry and alternate sources of lime. The study commenced in 1986, the submission of the final report has been delayed, and is expected to be submitted in mid-1988.

Contractor : Dr. Dias Hewagama
University of Peradeniya

Work Task 4 : Survey on historical coastline changes. The study commenced in 1986. The survey in the Crow Island (Kelaniya ganga estuary) area has been completed and report submitted in 1986. The report for Negombo and the Kelaniganga estuary was submitted in February 1988. The report for Hikkaduwa-Seenigama area is expected to be submitted by mid-1988.

Contractor : Prof. C.M.Madduma Bandara
Professor of Geography
University of Peradeniya

Work Task 5 : Study on land tenure and ownership in coastal areas. The report of the Land Commission titled 'Development of Coastal Lands' contains issues responsible for the improper management of coastal lands. One of the major issues identified is the lack of information on the ownership and tenure of coastal land. Although there is considerable State investment in the coastal areas, implying that state ownership of coastal land is considerable, the extent of State owned coastal land is not known.

Contractor to be identified.

Work Task 6 : Study of sand transport in the Kelaniyanga.

This study was identified in the year 2 workplan and a 3-4 year study was envisaged. The TOR was discussed with the Irrigation Department and it was agreed that the study would be limited initially to one year. The study commenced in September 1987.

Contractor : Irrigation Department

5.4 Publicity and environmental education

The CCD will continue to fund activities associated with a public education programme and a promotional campaign with focus on the need for a management initiatives in coastal areas. The programme will also focus on promoting the Coastal Zone Management Plan. Special emphasis will be given to environmental education at the school level.

5.5 Training

Since 1984, CCD has conducted several seminars aimed at mobilizing the services of local field officers to monitor development activities within the coastal zone.

In year 3 considerable effort is being directed to decentralization of the CCD functions to Provinces/Districts.

Work Task 1 : Seminars to promote understanding amongst the District level field and administration staff regarding the provision of the Coast Conservation Act, so that the implementing capacity at the District/Provincial level will be strengthened.

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AID/URI THIRD ANNUAL BUDGET

A. <u>Project Administration</u>			
1. Administrator		17,500	
2. Bank Charges		300	
3. Insurance		500	
4. Rental		2,500	
5. Secretarial staff		2,000	
6. Stationery		500	
7. Office equipment		500	
8. Travel and per diem		1,000	
9. Communications		2,500	
10. Bank charges and incidentals		<u>500</u>	27,800
B. <u>Institutional arrangements - Legal and Planning</u>			
1. Amendments to Coast Conservation Act		4,000	
2. CZM Plan refinements Layout in US (English version)	1,000		
Editing and production (Sinhala and Tamil versions)	2,000	3,000	
3. CZM Plan Supporting documents Coastal mapping	7,000		
Other technical documents	8,000	<u>15,000</u>	22,000
C. <u>Strengthening implementing capacity of CCD</u>			
1. SLIDA review of Organization & methods		1,500	
2. Development of standards - - Administrative responses to routine permit application		1,000	
3. Purchase of books, magazines and journals		1,000	
4. Recruitment of temporary personnel		4,000	
5. Computerizing management system		6,000	
6. Support for the Coastal Resources Unit		<u>3,000</u>	16,500
D. <u>Devolution of CCD functions (To 1 Province & 6 Districts)</u>			
1. Vehicles, equipment & travel		5,000	
2. Consultancy and recruitment of personnel to assess needs		4,000	
3. Assistance for implementation of development/management projects		<u>5,000</u>	14,000
E. <u>Public Education and Outreach</u>			
Educational Material (Posters, Leaflets, Teaching Guides) sponsorship of films and documentaries, support to NGO's conducting environmental programmes etc.		10,000	10,000

F. <u>Training</u>		
1. Continuation training CCD officer in Hawaii	13,280	
2. Overseas training (short-term)		
10 District Officers		
2 CCD "		
3 UDA, CEA "		
Course materials	22,000	
3. Kelaniya University Workshop for Resources Management Course.	10,000	
4. CCD participation in CZM Conference, Beijing, China, 1988	2,200	
		47,480
G. <u>Long-term policy developmnt and Planning</u>		
1. Study - Economic significance of coastal resources	5,000	
2. Study - Institutional analysis of coastal zone .	2,000	
3. Studies - Conditions of and trends in use of coastal resources	7,000	
4. Roundtable and workshop for preparation of Conservation Strategy/Resources Profile/White paper	1,500	
5. Hire of Consultant	4,500	20,000
<u>Sub-totals</u> (A to G)		157,780
H. Contingencies.		15,778
I. Indirect costs		17,355
<u>Grand Total</u>	US \$	190,913
		=====

GSL THIRD ANNUAL BUDGET

1.	Finalization of the CZMP	Rs. 500,000
2.	Survey on delimitation of State/Private Boundary in the Negombo Lagoon	Rs. 20,000
3.	Ecological History of the Negombo Lagoon	Rs. 180,000
4.	Study on coral based lime industry and alternate sources of lime	Rs. 80,000
5.	Historical coastline changes study	Rs. 40,000
6.	Study on Land Tenure in Coastal Areas	Rs. 150,000
7.	Kelaniya Sand Transport Study	Rs. *
8.	Publicity and Environmental Education	Rs. 300,000
9.	Seminars, Workshops	Rs. 130,000
10.	Capital expenditure for implementation of Act. Travelling subsistence, meeting expenditure etc.	Rs. 100,000
	Total :	: Rs.1,500,000 ** =====

* Total cost of project paid to Irrigation Dept. in 1987.

** Excludes recurrent costs for salaries of planning staff, support staff and other overheads.