

ASIAN DEVELOPMENT BANK

TAR: OTH 33545

**TECHNICAL ASSISTANCE
(Financed from the Japan Special Fund)**

FOR

CAPACITY BUILDING TO

PROMOTE TRADITIONAL ENVIRONMENTAL MANAGEMENT

IN THE PACIFIC DEVELOPING MEMBER COUNTRIES

May 2000

ABBREVIATIONS

ADB	–	Asian Development Bank
AusAid	–	Australian Agency for International Development
CBEMP	–	Capacity Building for Environmental Management in the Pacific
NEMS	–	National Environmental Management Strategies
NGO	–	nongovernment organization
PDMC	–	Pacific developing member country
RMI	–	Republic of the Marshall Islands
SPREP	–	South Pacific Regional Environment Programme
TA	–	technical assistance
UNDP	–	United Nations Development Programme

NOTE

In this report, "\$" refers to US dollars.

I. INTRODUCTION

1. The Asian Development Bank (ADB) and the South Pacific Regional Environment Programme (SPREP) have developed a coordinated effort to assist the Pacific developing member countries (PDMCs) with sustainable utilization of their natural resources through capacity building to promote traditional environmental management. The proposal is based on country-identified needs outlined in the National Environmental Management Strategies (NEMS) to incorporate traditional knowledge and practices into national government environmental management systems. Accordingly, the ADB fielded Fact-Finding Mission visited the Cook Islands, the Republic of the Marshall Islands (the RMI), and Vanuatu from 8 to 28 February 2000. Three countries were selected to represent the three subregions of Melanesia (Vanuatu), Micronesia (the RMI), and Polynesia (the Cook Islands). SPREP was visited in Samoa to discuss the regional technical assistance (TA). SPREP also participated in the Mission. The Mission met with senior officials of concerned agencies, scientists, traditional environmental management groups, and nongovernment organizations (NGOs) in the three countries to discuss the TA objective, scope, cost estimates, and implementation arrangements.¹ While a number of initiatives are under way in the region for natural resource conservation, the member governments of SPREP have recognized the urgency to address potential environmental management problems arising from the increasing pressures on natural resources. The three participating governments endorsed the TA as an essential activity to fill a potential weakness in environmental management and conservation programs. The TA Framework is attached as Appendix 1.

II. BACKGROUND AND RATIONALE

2. The PDMCs include many small-island nations with vast geographical, ecological, and sociocultural diversity. A fragile ecosystem and a limited resource base have caused them to share a strong affinity with, and dependence on, land and ocean resources for their livelihood and economic development. The traditional way of life has been, of necessity, an ecologically sustainable one, with care of the environment essential for future generations to benefit from the resources. However, the introduction of a cash economy and the need to satisfy increasing financial demands have led to increasing pressures on natural resources, and in some areas, increasing environmental degradation.

3. Environmental degradation is now becoming more visible in the PDMCs. Increasing population levels are intensifying pressures on natural resource use and rapidly changing lifestyles are generating nonbiological wastes such as aluminum cans, plastics, and abandoned vehicles. While many of the reef ecosystems are relatively undisturbed, others are threatened by coral harvesting and destructive fishing methods used to supply the aquarium and food-fish markets. These problems are now worsening and may affect sustainable development not only in the PDMCs, but also in the entire region. Such problems are occurring partly because of the declining role of traditional leaders in the decision-making process for resource management. In addition, while life skills, agriculture, and other more practical subjects are taught, they are generally based on the latest technological findings with inadequate emphasis on the use of traditional, ecologically sustainable techniques.

¹ The TA is included in the 2000 regional TA Program. It first appeared in *ADB Business Opportunities* (Internet edition) on 26 January 2000.

4. Indeed, awareness and understanding of the importance of traditional practices that have been a part of past generations are now disappearing due to recent sociocultural changes and modern influences. Hence, it is necessary to promote traditional environmental management by encouraging the incorporation of environmentally sustainable traditional practices with nontraditional practices. This can be done through focused educational programs at both the formal and nonformal levels, while promoting a greater role for traditional leaders in environmental management activities. Information on traditional practices, collected under previous and ongoing activities, will be incorporated into formal education curricula, and will be used to produce materials for nonformal education and awareness-raising campaigns (e.g., booklets, videos, posters, and CD-ROMs).

5. Information sharing by countries in the region enables dissemination of knowledge and experiences. Therefore, the regional information network must be strengthened to support the transfer of knowledge and information. The PDMCs can benefit from the globalization of information by using standard information transfer systems and Internet-based technologies. Internet-based technologies can minimize the impacts that geographical isolation has on information access, and elevate the level of awareness of Pacific island countries on a regional and global basis.

6. Traditional environmental management is one of the priority areas for implementation in the NEMS. The NEMS were prepared between 1992 and 1993 for five PDMCs under the ADB TA,² Cook Islands, Federated States of Micronesia, RMI, Solomon Islands, and Tonga.³ Many of the programs listed in the NEMS have been implemented. In addition, during the past seven years, there have been adjustments in policies and legislation, and changes in environmental conditions. The governments of the Cook Islands and the RMI have expressed their keen interest in reviewing the NEMS implementation, particularly programs related to traditional environmental management, and to draw on the lessons learned.

7. There are related programs that have been undertaken and/or are still ongoing in the Pacific region, most prominent of which are ADB TA No. 5403 (see footnote 2), Australian Agency for International Development (AusAID)/SPREP Environmental Education and Awareness Project,⁴ and United Nations Development Programme (UNDP) support program for Capacity Building for Environmental Management in the Pacific (CBEMP).⁵ Under the CBEMP program, Vanuatu completed a collection and review of information on traditional environmental management practices. This information is now being collated into a report that is due for completion in April 2000. The implementation of activities in Vanuatu has not commenced due to limited funding available under the CBEMP. In the RMI, no activities have commenced to date. However, the Historic Preservation Office and Alele Museum have been jointly gathering information on various legends, folklore, and traditional practices and knowledge under the Government program. This existing information can be used for the TA. The Cook Islands is not a participant in the CBEMP. Several organizations, including the Natural Heritage Trust, Ministry

² TA 5403-REG: *Strengthening Environmental Management Capabilities in Pacific Island Developing Countries*, for \$900,000, approved on 24 August 1990. The TA has successfully prepared the State of the Environment and the NEMS for the five participating countries. SPREP was the Executing Agency.

³ In tandem with this TA, UNDP also provided similar TA for seven Pacific island countries including Kiribati, Nauru, Niue, Palau, Samoa, Tokelau, and Tuvalu.

⁴ The project was implemented from 1995 to 1997 and included Cook Islands, Kiribati, RMI, Samoa, Solomon Islands, and Vanuatu.

⁵ The program (1998-2001) has the objective to increase the capacity of the Pacific island countries to sustainably use their natural resources to maximize their economic and social returns while maintaining the resources for future generations. Beneficiary countries include Federated States of Micronesia, Fiji Islands, Kiribati, RMI, Nauru, Niue, Palau, Samoa, Solomon Islands, Tonga, Tuvalu, and Vanuatu. The program is implemented by SPREP.

for Marine Resources, Worldwide Fund for Nature (WWF) and the Secretariat of the Pacific Community (SPC) Fisheries Program have collected relevant traditional information. Furthermore, the Cook Islands recognizes the importance of traditional knowledge and has instigated efforts to be developed through the TA. Discussions were undertaken with UNDP (in Apia, Samoa) to jointly cooperate in strengthening the capacity of Pacific island countries in environmental management, using the CBEMP's outcome and other information collected from various sources. The current TA will use the collected information on traditional environmental management practices, knowledge, and values for incorporation into formal and nonformal education materials; compile best-practice case studies; and develop a project implementation manual and/or guidelines, and training modules incorporating traditional environmental management practices.

8. The current TA will be executed by SPREP. Established in 1982, SPREP is a regional organization established by the governments and administrations of the Pacific region. It promotes cooperation in the South Pacific region and provides assistance to protect and improve the environment, and to ensure sustainable development for present and future generations. It serves as the conduit for concerted action in this area at the regional level. Under a broader perspective, SPREP develops and implements a regionally coordinated and comprehensive range of activities under the following programs: (i) Biodiversity and Natural Resource Conservation, (ii) Climate Change and Integrated Coastal Management, (iii) Waste Management, Pollution Prevention, and Emergencies, (iv) Environmental Management, Planning, and Institutional Strengthening, and (v) Environmental Education, Information, and Training. The programs most closely related to the current TA are Environmental Management, Planning, and Institutional Strengthening; and Environmental Education, Information, and Training. SPREP, as in the past, currently implements various programs and projects financed by multilateral and bilateral aid institutions.⁶

II. THE TECHNICAL ASSISTANCE

A. Objective

9. The objective of the TA is to help the PDMCs to sustainably use their natural resources by promoting the use of traditional environmental management practices, knowledge, and values.

B. Scope

10. The TA will (i) incorporate information on traditional environmental management practices and values into existing formal and nonformal education programs; and disseminate information to decision makers, government personnel, NGOs, and the general community on the importance of preserving and using traditional knowledge, alongside new technical knowledge and practices; (ii) promote the role of traditional leaders in environmental

⁶ Some of SPREP's current projects involving inputs from the international community include (i) South Pacific Biodiversity Conservation Programme; (ii) Preparation of a Regional Strategy for International Waters; (iii) Pacific Islands Climate Change Assistance Programme (all funded by the Global Environment Facility through UNDP); (iv) Waste Management Education and Awareness (European Union); Atmospheric and Radiation Measurements in the Tropical Western Pacific (US Department of Energy); (v) Climate Change and Environmental Education and Training (AusAID); (vi) Meteorological services in conjunction with the World Meteorological Organization; (vii) Environmental Education activities funded by the United Kingdom Department for International Development-Pacific, AusAID, and United Nations Environment Programme; and (viii) training activities funded by the New Zealand Overseas Development Assistance.

management; and (iii) strengthen the regional information network for the transfer of knowledge and skills using standard information transfer systems and Internet-based technologies. The TA will review implementation of the NEMS and lessons learned, particularly on components related to traditional environmental management practices.

C. Cost Estimates and Financing Plan

11. The TA is estimated to cost \$550,000 equivalent. ADB will finance \$300,000 equivalent. The TA will be financed by ADB on a grant basis from the Japan Special Fund funded by the Government of Japan. SPREP has agreed to provide the following in-kind support: (i) counterpart professional staff inputs, including management hours, the TA manager and additional technical staff inputs;⁷ (ii) travel costs for SPREP staff; (iii) partial report and communication costs; (iv) partial training and workshop costs; (v) office accommodations; and (vi) secretarial services estimated at \$190,000 equivalent. SPREP will also provide the consultants with communication access and other office facilities. The participating PDMC governments will provide \$60,000 (in-kind). Detailed cost estimates are presented in Appendix 2.

D. Implementation Arrangements

12. The Executing Agency will be SPREP. ADB's Environment Division will be responsible for processing and supervising TA implementation. SPREP will assign a suitably qualified counterpart staff member to serve as the TA manager responsible for overall management and implementation of the TA. The manager will be responsible for liaison with SPREP's national focal points and key agencies appointed by the participating PDMC governments (Environmental Services, the Cook Islands; Environmental Protection Agency, the RMI; and Vanuatu Cultural Center, Vanuatu), and other regional organizations in achieving the TA objective. Under the overall supervision of the head of the Environmental Education, Information and Capacity-Building Division, the TA manager will work in close collaboration with SPREP's CBEMP officer, information technology officer, training officer and information and publications officer to ensure continued commitment to the TA. The TA manager will be assisted by an environmental education assistant recruited for day-to-day TA implementation.

13. The implementation procedure will be jointly developed by SPREP and the government agencies through consultative workshops in each participating country during the inception phase, and electronic data transfer mechanisms. The TA manager, national focal points, and key agencies will communicate regularly to keep track of the TA's progress during implementation to ensure that the objectives are achieved. These will include regular travels by the TA manager to the countries concerned using SPREP funding. A two-month internship-cum-training program on developing educational materials and Internet-based information and data transfer will also be undertaken at SPREP. The participants will be the personnel of, and appointed by, the participating PDMC governments. Upon completion of the program, they will assist the TA manager in implementing the TA in their respective countries under the supervision of the national focal points and key government agencies.

14. A team of international, and regional and/or domestic consultants financed by the TA will support SPREP during TA implementation. The international consultant will be an environmental management specialist experienced in resource management and educational/awareness-raising program development preferably in the PDMCs (three person-months). The regional

⁷ Additional technical staff inputs include the: CBEMP officer, information technology staff, training officer and information and publications officer.

and/or domestic consultants will include an information technology specialist experienced in developing Internet-based information systems and CD-ROMs (two person-months), and an education specialist experienced in educational materials preparation and having knowledge on social science (three person-months). Resource persons will be recruited during TA implementation in accordance with procedures satisfactory to ADB. The international and regional and/or domestic consultants will assist SPREP by providing specific advice and skills for overall implementation of the TA Program, such as preparing strategic plans for TA implementation, reviewing the NEMS, and conducting training for the personnel from the participating PDMC governments (outline of the terms of reference are in Appendix 3). The consultants will work under the guidance of the TA manager. They will be selected in accordance with ADB's *Guidelines on the Use of Consultants*, and other arrangements acceptable to ADB on the engagement of domestic consultants. Equipment will be procured under ADB's *Guidelines for Procurement*.

15. The TA will be executed over 18 months, commencing in May 2000 and ending in November 2001. SPREP will implement the TA in consultation with ADB. Several workshops will be conducted during implementation, i.e., (i) inception workshops, (ii) curriculum writing workshops, (iii) training workshops for teachers on the use of the educational materials, (iv) awareness-raising programs for communities and NGOs, (v) training workshops for government officials, and (vi) a regional workshop at the end of TA implementation.

16. ADB's South Pacific Resident Mission in Vanuatu will be encouraged to participate in the in-country and regional workshops and other related activities, and generate awareness on the information systems to be developed under the TA. ADB will regularly monitor and review the implementation progress through (i) quarterly progress reports and (ii) at least three review missions particularly to evaluate the inception, interim and draft final reports of the study. SPREP will be responsible for overall quality control to ensure that the environmental education materials and manual/guidelines (to be used by decision makers) meet the needs of the PDMCs. The regional information network using the Internet-based system to be developed at SPREP, and government web sites, will be maintained.

17. SPREP will provide the following reports to ADB: (i) inception report covering the mobilization of consultants, detailed work plan, and preliminary outcome of the works; it will be discussed in a tripartite meeting; (ii) quarterly progress reports of TA implementation; (iii) interim report summarizing the progress and outlining the ongoing works, to be discussed in a tripartite meeting in February 2001; (iv) draft final report covering the overall works achieved, to be submitted one month before the termination of the TA and discussed in the final tripartite review meeting in October 2001; and (v) final report incorporating comments from the PDMC governments, SPREP, and ADB, to be submitted within three weeks after the final tripartite review.

IV. THE PRESIDENT'S DECISION

18. The President, acting under the authority delegated by the Board, has approved the provision of technical assistance, on a grant basis, in an amount not exceeding the equivalent of \$300,000 for the purpose of Capacity Building to Promote Traditional Environmental Management in the Pacific Developing Member Countries, and hereby reports such action to the Board.

TECHNICAL ASSISTANCE FRAMEWORK

Goal	Design Summary	Performance Targets	Monitoring Mechanisms	Assumptions and Risks
	Enable the participating governments to promote the use of traditional environmental management practices, knowledge, and values in resource management, to ensure sustainable management of their natural resources.	Environmental management strengthened by raising awareness among stakeholders (e.g. school children, communities, and government officials) to incorporate traditional environmental management into contemporary management systems.	Records of information supplied by the participating countries; policy dialogue with the South Pacific Regional Environment Programme (SPREP) and government agencies, review missions, and reports	Data collected are adequate for incorporation into formal and nonformal education programs. Information collected is useful and appropriate for decision-making purposes.
Purpose				
	Enhance knowledge on the use of traditional environmental management among school children, communities, and government staff responsible for resource management and decision making.	Formal and nonformal education materials developed, and at least partly based on information provided by the technical assistance (TA) program. Key decisions on development at least partly based on information gathered by, or skills obtained from, the TA Program.	Records of educational materials prepared using information gathered from the TA Program Records of decisions made, and methods of project implementation developed using information collected under the TA Program Records on the follow-up of the recommendations and the role of traditional leaders in environmental management	School teachers will use the materials produced under the TA program. Trained staff will remain in their positions to implement the economic development programs/projects. Governments will cooperate in assessing the role of traditional leaders.
	Promote the role of traditional leaders in environmental management.	Recommendations for promoting the role of traditional leaders (under the government system) in environmental management provided.	Presentation of information related to traditional management practices on the web site; records of information exchange	System will be updated and maintained by SPREP and the participating governments, and demand for its access will be generated.
Outputs				
	Formal and nonformal education materials (e.g., booklets, posters, training manuals, CD-ROM)	Educational/training materials for schools, awareness-raising, and training of government staff developed.	SPREP to monitor the use of the educational materials	Educational ministries will adopt the TA outputs; government agencies responsible for resource management will use the materials.
	Recommendations for strengthening the role of traditional leaders	Recommendations considered by the governments, and traditional leaders involved in the decision-making process.	SPREP to monitor the role of traditional leaders in environmental management	Governments will cooperate in empowering traditional leaders in resource management.
	Strengthened regional information network using standard information transfer systems and Internet-based technologies	Information containing traditional environmental management published on SPREP and government web sites.	ADB and SPREP to monitor the maintenance of the information network	Users in the participating countries will need the information presented in the web site.
	Information on the successes and failures of the National Environmental Management Strategies (NEMS), lessons learned, and recommendations	Recommendations to improve the NEMS and suggestions indicative of new programs provided.	TA Reports and review missions	Cooperation by the concerned governments in providing information needed

Activities	Design Summary	Performance Targets	Monitoring Mechanisms	Assumptions and Risks
Conduct inception workshops in each participating country.		(i) Work plan prepared; (ii) coordination mechanisms among government agencies and nongovernment organizations established; and (iii) overall TA implementation plan developed.	Inception report presenting strategic plan for TA implementation, work plan, and other related matters	Strong consensus among participants to address issues
Gather, acquire, and analyze information to be incorporated into (i) formal and nonformal education materials; and (ii) project implementation manual (or develop practice case studies, where they do not exist).		(i) Environmental education materials produced (e.g., schoolbooks, 300 copies of CD-ROM); and (ii) recommendations for updating the project implementation manual (or new manual or/and case studies illustrating the application of traditional practices) provided.	Review of educational materials, and case studies and/or manuals, and the use of materials by planners and/or managers	Cooperation by the governments and NGOs, suitable materials on traditional practices can be collected, and the use of the information by the governments for project implementation
Conduct an internship-cum-training program for three government officials from the participating Pacific developing member countries (PDMCs).		Two-month internship-cum-training program at SPREP to develop educational materials and information technology systems conducted.	Post-training evaluation by SPREP	Suitable trainees will be identified by the governments. The skills they acquired will be used regularly in their jobs.
Conduct a series of trainings and workshops, including resource materials development, training of teachers and government officials, and awareness-raising for the communities. Review the overall TA outcome through a regional workshop (at the final phase).		Environmental education materials framework developed; capability of teachers in delivering educational materials strengthened; community awareness broadened; and capacity of Government officials to use the materials strengthened.	Records of trainings/workshops; progress reports; review missions, and post-training evaluation by SPREP	Cooperation with the Ministry of Education, related agencies, and NGOs in implementing the workshops; for the regional workshop, all participating countries are able to produce outputs as the terms of reference
Assess the past and present roles of traditional leaders in environmental management.		Recommendations for promoting the role of traditional leaders in environmental management provided.	Review of the role and authority of traditional leaders by SPREP	Cooperation with the governments in reviewing the role of traditional leaders
Strengthen regional information network on traditional environmental management using standard transfer systems and Internet-based technologies.		Web page on traditional environmental management established in the SPREP and country web site; regional networking among the PDMCs strengthened.	Records of information exchange, and information traffic using the web page	The participating countries have the capacity to use Internet-based technologies, and are able to maintain the web page.
Review the NEMS implementation (the Cook Islands and the Republic of Marshall Islands), particularly programs related to traditional environmental management.		Information on successes and failures, lessons learned, and recommendations for improvement on new programs provided.	Records of activities, TA progress reports, and final report	Cooperation by the concerned government agencies in each country in the NEMS review
Inputs		Set of computers provided for each of the participating PDMCs for establishing and maintaining databases. Counterpart staff and TA management provided by SPREP and participating governments.	Records of activities, and regular monitoring by SPREP	Cooperation by SPREP, as Executing Agency, and the concerned government agencies in each country in TA implementation
Provision of equipment, software, and training on information technology (particularly Internet-based information networking); and counterpart staff and project management				

COST ESTIMATES
(\$'000)

Item	ADB	SPREP (in-kind)	Government Contributions	Total Cost
A. Staff Resources/Consultants				
1. Remuneration and Per Diem				
a. International Consultants	70	0	0	70
b. Regional Consultants	50	0	0	50
c. Resource Persons	25	0	0	25
d. TA Manager/SPREP Technical Staff	0	80	0	80
e. Environmental Education Assistant	10	0	0	10
f. Government Counterpart Staff	0	0	60	60
2. International and Local Travel	30	30	0	60
3. Reports and Communications	5	5	0	10
B. Computers and Peripherals^a	10	5	0	15
C. Training and Workshops				
1. Workshops	20	15	0	35
2. Internship-cum-Training Programs	21	5	0	26
D. Publications and CD-Rom Production	20	20	0	40
E. Office Accommodations and Support	0	20	0	20
F. Secretarial Services	0	10	0	10
G. Contingencies	39	0	0	39
Total	300	190	60	550

ADB = Asian Development Bank; SPREP = South Pacific Regional Environment Programme; TA = technical assistance.

^a Computer hardware will be procured for database development, and subsequent use by the participating PDMC Governments in the Cook Islands, the RMI and Vanuatu.

Source: Staff estimates.

TERMS OF REFERENCE

A. Introduction

1. The scope of work of the regional technical assistance (TA) include (i) incorporating information on traditional environmental management practices and values into existing formal and nonformal education programs to ensure that such information is not lost and is better recognized in today's society; disseminating information to decision makers, government personnel, nongovernment organizations (NGOs), and the general community on the importance of preserving and using traditional knowledge, alongside new technical knowledge and practices; (ii) promoting the role of traditional leaders in environmental management; and (iii) strengthening the regional information network for the transfer of knowledge and skills using standard information transfer systems and Internet-based technologies. In line with these activities, the TA will review the implementation of the National Environmental Management Strategies (NEMS) and lessons learned, particularly for components related to the traditional environmental management practices. Three countries (the Cook Islands, the Republic of the Marshall Islands (the RMI), and Vanuatu) will be involved in the TA. The TA will be executed over 18 months, commencing in May 2000 and ending in November 2001.

2. SPREP will assign and finance a suitably qualified staff member to serve as the TA manager. The SPREP team (TA manager and one environmental education assistant) will be responsible for carrying out day-to-day activities and overall coordination under the general guidance of the SPREP's head of Environmental Education, Information, and Capacity-building Division. In undertaking such tasks, the TA manager will liaise with SPREP's Capacity Building for Environmental Management in the Pacific (CBEMP)⁹ officer, information technology staff, training officer and information and publications officer. The international and regional and/or domestic consultants financed by the ADB grant will support the SPREP team (eight person-months). The international consultant will be an environmental management specialist experienced in resource management and educational/awareness-raising program development, preferably in the Pacific developing member countries (PDMCs) (three person-months). The regional and/or domestic consultants will include an information technology specialist experienced in developing Internet-based information systems and CD-ROMs (two person-months), and an education specialist experienced in educational materials preparation and having knowledge on social science (three person-months). Resource persons will be recruited during TA implementation, particularly for the workshops and specific TA inputs.

B. Inception

1. Mobilization

3. The TA manager will establish coordination among related SPREP staff members involved in the TA, including SPREP's CBEMP officer, information technology staff, training officer and information and publications officer. The international consultant (environmental management specialist) will make two visits: one-and-a-half months during the inception phase to assist in the overall planning of TA implementation, providing the necessary expert inputs, and establishing coordination among the regional and/or domestic consultants; and one month during the final phase to assist in finalizing the TA. Two weeks of long-distance consultation will be provided from the consultants' home office.

⁹ Capacity Building for Environmental Management in the Pacific (1998-2001) executed by SPREP and funded by the United Nations Development Programme.

4. The international consultant will be mobilized in the inception phase to assist SPREP in preparing the strategic plan and overall planning of TA implementation, detailed work program, expected outputs, other related activities, and necessary coordination to achieve the overall TA objective. The consultant will also be assigned to review the NEMS of the Cook Islands and the RMI. An environmental education assistant will be recruited to assist the TA manager with day-to-day TA implementation.

5. The regional and/or domestic consultants (one education specialist and one information technology specialist) will assist in developing educational materials, and in establishing a web page for traditional environmental management. They will also carry out an internship-cum-training program for the three government officials at the SPREP Office and will assist SPREP by providing specific advice and skills for the implementation of the TA Program. Resource persons will be recruited during TA implementation to assist in the workshops and related activities.

2. Country Consultation

6. During the two-month inception phase, the SPREP team, CBEMP officer, and international consultant (environmental management specialist), in consultation with multilateral and bilateral aid institutions providing assistance in related fields in the region, will organize a one-day inception (consultative/planning) workshop in each participating PDMC. Workshop participants will include representatives from concerned government agencies, institutions, NGOs, and other stakeholders. These in-country workshops are tentatively scheduled for June 2000. The workshop's objectives are to: (i) prepare the TA work plan; (ii) establish coordination and networking among concerned agencies, institutions, NGOs, and other interested parties; (iii) assess data expected to be collected, and currently available from previous and ongoing activities on traditional environmental management, practices, and values, and define data sets necessary for the TA; (iv) define expected outputs; (v) set up an overall TA implementation plan; and (iv) prepare an internship-cum-training program for the government representatives identified in consultation with the participating PDMC governments.

3. Inception Report

7. An inception report will be prepared, taking into consideration the recommendations from the country consultative and planning workshops. The work plan will include strategic plans for TA implementation, processing schedule, activities, allocation of consultants' time and resources for the works to be carried out and their coordination, expected outputs, and other related matters, as necessary.

C. Implementation

8. Following the inception phase, implementation of the terms of reference will be undertaken by SPREP. The consultants will be mobilized to assist SPREP in areas requiring specific assistance. A two-month internship-cum-training program will be undertaken at SPREP for the government representative of each of the three participating PDMCs. The trainees will work together with SPREP's education officer, CBEMP officer, information technology staff, training officer and information and publications officer. The training will focus on the (i) incorporation of traditional environmental management practices into formal and nonformal education materials, and (ii) use of information technology in disseminating the TA outcome. One set of hardware and software will be provided for each of the participating PDMCs.

9. During TA implementation, SPREP's education officer and CBEMP officer will visit the three participating countries (at least three visits per country) to consult with relevant agencies, institutions, NGOs, and other stakeholders as necessary; and to ensure that continued TA implementation remains efficient.

10. A regional workshop involving the PDMC government representatives will be undertaken during the final TA implementation phase to consolidate TA findings and strengthen regional cooperation and information-sharing. The final report, in hard copy and in CD-ROM, will present the overall outcome of activities under the TA, as detailed in the terms of reference.

11. The core activities under the TA will include the following tasks.

1. Educational Materials/Manual Production and Training

12. Activities include the following:

- (i) Compile and review information on traditional environmental management practices collected under previous activities such as the CBEMP, and by other institutions (e.g., The Historic Preservation Office and Alele Museum of the RMI, Worldwide Fund for Nature, and National Heritage Trust of the Cook Islands). Incorporate good practices and values into (a) existing formal and nonformal education materials (e.g., booklets, posters, and CD-ROMs), and (b) project implementation manual and/or guidelines for the government agencies responsible for resource management. In cases where such manual and/or guidelines do not currently exist, develop such manual or best-practice case studies to improve project implementation/management.
- (ii) Hold a resource material development workshop in each country in consultation with educational ministries, curriculum development units, and NGOs to produce suitable materials for school use and other educational programs. Identify one person from each workshop to follow an internship-cum-training program on the production of the national educational materials under the guidance of SPREP's information and publications officer, and develop the web site containing selected materials and maintain the databases.
- (iii) Using the educational materials produced under the TA, conduct (a) training of teachers on the use of educational materials; (b) training workshops for decision makers and other key government personnel directly responsible for natural resource management on the importance of using traditional knowledge alongside new technology, and scientific information and practices; and (c) awareness-raising training for communities and NGOs in the participating PDMCs.
- (iv) At the final phase of TA implementation, undertake a regional workshop involving the PDMCs to discuss the TA outcome, focusing on the (a) implementation of activities under the scope of the TA, (b) implementation of sound policies and management plans for natural resource management; and (c) strengthening regional cooperation among the PDMC governments on such activities.

2. Promoting the Role of Traditional Leaders

13. Compile information and assess the past and present roles of traditional leaders in environmental management, and the extent of public participation in the resource management decision-making process. Identify strengths and weaknesses of the present systems, and recommend ways to improve the role of traditional leaders in environmental management within the existing government systems. Discuss the recommendations in the regional workshop to obtain views and support from the government representatives.

3. Strengthening the Information Network

14. Using the information compiled under task 1(i), strengthen the regional information network for disseminating information using the standard information transfer systems and Internet-based technologies. In so doing, establish a web page on traditional environmental management within the existing SPREP web site and, wherever possible, on each of the participating PDMCs' web sites. The web page will contain a summary of traditional environmental management knowledge, practices, and values; information on integrating traditional and modern practices to achieve better project implementation; and selected case studies.

4. Review of the NEMS Implementation

15. Review the NEMS implementation under ADB's previous TA (for the Cook Islands and the RMI) particularly programs/projects that are closely related to the use of traditional environmental management. Make a critical analysis of the successes and failures of past efforts and lessons learned. Identify issues that need attention and those that have not been addressed properly (e.g., policies, legislation, and community consultation and participation). Provide suggestions for new programs, particularly those related to traditional environmental management.