UNDP

Global Environment Facility Project Document

Number and Title: RAF01G41/A/1G/31 Developing Detailed Regional and National Project

Proposals and Financing Mechanisms to Implement the Lake Tanganyika

Strategic Action Program

Project Countries: Regional – Burundi, Democratic Republic of Congo, Tanzania, and Zambia

Duration: 1 April, 2001 – 30 March, 2002

ACC/UNDP Sector: 0410 - Water Resources

Planning & Management

Executing Agency: UNOPS

UNDP & Cost-Sharing Financing

UNDP GEF: \$US 595,000

AfDB \$US 106,000

Governments \$US 324,000

Total: \$US 1,025,000

Project Summary

The principal objective of this PDF-B is to prepare a Strategic Action Program (SAP) implementation full project proposal. Activities include development of a detailed project design for SAP implementation including sub-projects addressing major issues, the negotiation of bi-lateral, multi-lateral, regional and national co-finance, and the requisite level of public consultation to ensure that all relevant stakeholders have been engaged in the process of full project implementation.

On behalf of the	Signatures	Date	Name/Title
Government of Burundi			
Government of DR Congo			
Government of Tanzania			
Government of Zambia			
UNDP			
UNOPS			

The Context

- 1. Lake Tanganyika is the largest body of water in Africa, and indeed holds almost one sixth of the world's free fresh water resources. The lake is shared by the four riparian countries included in this proposal: Burundi; the Democratic Republic of Congo; Tanzania; and Zambia. The lake is a unique environment, exceptionally old and with possibly the greatest biodiversity of any lake on the globe. More than 1,300 species of fish, invertebrates and plants have been recorded in the lake basin, of which 500 are endemic.
- 2. About one million people live around the lake, with another ten million living in the watershed. The lake is a source of fish for consumption and sale; it provides a key transport and communications link, supporting the economic and social development of lake-shore communities and it is a permanent source of water for industrial and agricultural development as well as for domestic use.
- 3. The lake faces a number of environmental threats that compromise efforts to achieve the sustainable use of lake resources, with resultant threats to local and global biodiversity values in and around the lake. The most immediate threats are excessive loads of sediment and nutrients caused by erosion in the watershed, industrial and urban pollution (including boat discharges) and excessive fishing pressure. These problems are growing, and others such as oil and mineral exploitation and increasing lake-transport and associated risks of marine accidents pose major future threats.
- 4. These environmental problems have the potential for damaging the integrity of the lake as a whole, and as such their impacts on the lake are transboundary. However, the source of these threats is in many cases from a specific local activity. The solutions to these environmental problems, which have transboundary effects, are thus achieved through addressing localised problems within national territories

Background to the Proposal – GEF and the Management of Lake Tanganyika

- 5. In recognition of Lake Tanganyika's extraordinary biodiversity and the burgeoning threats against it, scientists from the four riparian states attended the First International Conference on the Conservation and Biodiversity of Lake Tanganyika, held in Bujumbura in 1991, to draw international attention to these issues. Subsequently, steps were taken to attract the interest of international funding agencies to support a regional project to address the identified problems. Funding was secured through GEF for a five-year project: Pollution Control and Other Measures to Protect Biodiversity in Lake Tanganyika. The Phase 1 Project, relating to GEF interests in both biodiversity and international waters became effective in 1995, and following GEF strategy, placed considerable emphasis on management objectives for sustainable development.
- 6. While the project design was developed under the GEF pilot phase, implementation took place within the framework of the restructured GEF, and thus the four riparian states worked together to meet the new challenges of the Operational Strategy and

Operational Programmes. The aim of the project was to help the riparian states produce an effective system for protecting and conserving the biological diversity and promoting the sustainable use of the natural resources of Lake Tanganyika. The project had four key outputs, developed through a process of documented stakeholder consultation and public involvement:

- The Strategic Action Programme (SAP) for the Sustainable Management of Lake Tanganyika
- The Transboundary Diagnostic Analysis
- The Convention on the Sustainable Management of Lake Tanganyika
- Scientific and Technical Reports on the State of the Lake
- 7. The project also initiated a number of research and monitoring programmes directed at filling the information gaps needed to prepare the SAP. These Special Studies included Biodiversity, Fishing Practices, Pollution, Sedimentation and Socioeconomics to provide the human context within which conclusions could be discussed, developed and implemented. The project also supported Environmental Education and Training, addressing issues of awareness and environmental behaviour at both national and political levels, as well as at local planning and community levels.
- 8. The Special Studies added to the considerable experience of the local SAP/TDA Planning Team of managers and scientists who were responsible for developing the TDA and SAP, and enabled the Planning Team to effectively advise on the scope of the Convention. In addition to the Special Studies, the Food and Agriculture Organisation (FAO) has been and will continue to be actively involved in sustainable fisheries activities for lake Tanganyika. The UNDP-GEF, the FAO and the AfDB have agreed that they will work in mutually advantageous ways to bring about the long-term sustainable use of the resources of Lake Tanganyika. Specific activities to achieve this complimentarity are described later in this PDF-B proposal.

The Strategic Action Programme and the TDA

9. The Strategic Action Programme defines a regional framework for a prioritised set of national and regional actions to achieve the objectives agreed upon by the participating countries and stated in the draft Convention. Fundamental to this is the recognition that management programmes have to be revised in response to changing circumstances, that there can be no final "programme" but rather one that evolves over time with changing environmental and socio-economic circumstances. The SAP therefore provides agreed planning and management *processes*, and an initial prioritised programme of *interventions* based on present knowledge.

10. More specifically, the SAP process is:

- The result of a broad process of consultation and public involvement with the full range of affected stakeholders at national and regional level, resulting in
- A Regional Programme defining a management framework to co-ordinate activities
 to promote the sustainable use of lake resources, and counteract and prevent
 negative impacts associated with increasing pollution, sedimentation and fishing
 pressure, with

- Prioritised National Project Components, directed at defined hot spots within the national territories of the participating countries. These actions become the specific national responsibility of the participating countries and their own national institutions, but remain within the regional SAP framework.
- 11. The TDA defines immediate management objectives within the overall management goal of conserving the biodiversity of Lake Tanganyika, addressing global concerns and ensuring the sustainable use of these and other resources for local communities into the foreseeable future. The evaluation started with a review of the major threats, and defined the specific problems and sub-components that together make up the threat and then proposed a sequence of management interventions to counteract each specific problem. The value of this approach is that what appeared to be an excessively ambitious and daunting management objective such as the Control of Pollution, was split into a series of manageable objectives addressing specific problems, many of which could be initiated by local institutions and implemented with available resources.

The Convention

- 12. In parallel with the development of the SAP and the TDA, the participating countries prepared a draft Convention The Convention on the Sustainable Management of Lake Tanganyika. The Convention provides a legal framework for the future management of the Lake that sets out both relevant principles of general application and, where appropriate, specific obligations and procedures. The Convention is broad enough to encompass the present and future management requirements of the lake, and as such is based on the management requirements identified through the process of developing the SAP.
- 13. Although the Convention is designed for the particular circumstances of the Lake, it incorporates concepts and approaches adapted from a wide range of international agreements, including those which take an ecosystem approach to management, and which some or all of the participating countries have already consented to in other international legal documents. The SAP in turn draws upon the Convention and the environmental and social principles outlined in the Convention also underlie the objectives of the SAP. In particular, the principles in the Convention reflect:
- the 1992 Convention on Biological Diversity which emphasises global concerns on sustainable development and the conservation of biodiversity
- the 1995 SADC Protocol on Shared Watercourse Systems in the Southern African Development Community, a regional example of the management of shared water resources
- the 1997 Convention on the Law of the Non-navigational Uses of International Watercourses provides a basis for developing specific rules for Lake Tanganyika
- 14. While the Convention will remain a draft document until formally signed and ratified by the governments of the participating countries, the SAP can be initiated under interim management arrangements, and in advance of the formal ratification of the Convention. These interim arrangements would include provision for scientific input into the work of the project by way of assuring that the functions of the proposed Technical Committees foreseen in the Convention and added to on the advice of the project Steering Committee, would begin with project implementation. These Technical Committees include the Socio-economic Technical Committee, the

Fisheries Management Technical Committee, the Biological Diversity Technical Committee, and the Pollution Technical Committee. The functions of these Committees are spelled out in the draft Convention.

The Full Project

- 15. As previously mentioned the TDA exercise conducted through the Pilot Phase project has resulted in a comprehensive assessment of threats and root causes to the loss of globally important resources. In addition, activities have been proposed to mitigate these problems, although the final shape of the Full project and its set of activities and outcomes can only be determined after the necessary period of negotiation and fact finding necessary during the proposed PDF-B phase.
- 16. The threats and proposed actions to mitigate and/or eliminate these threats are detailed in the following Matrix of Main Issues to be Addressed, and Annex 1 (Tables describing Problems to be Addressed, Proposed Actions and Key Agencies, Stakeholders, and Uncertainties) attached to this document.

Matrix of Main Issues to be Addressed

Main Threat to Biodiversity and Sustainable Use	Cross-Cutting Transboundary Implications	Cross-Cutting Institutional Problems	General Action Areas
Unsustainable Fisheries Increasing Pollution Excessive Sedimentation Habitat Destruction	Biodiversity Loss of Share Fisheries Resource	Lack of Resources of Poor Enforcement of Existing Regulations dLack of Appropriate Regulations for Lake Tanganyika Lack of Institutional Coordination	Reduce Impact of Fishing Control Pollution Control Sedimentation Habitat Conservation

- 17. Considering that a certain level of flexibility has to be maintained in complex projects such as those addressing shared water resources among neighbouring countries, it is possible nevertheless, based on the proposed activities, to give a general description of what the Full project would look like. The Full project will:
 - a) Engage the participating countries in concerted action toward finalization and ratification of the draft Convention. It should be kept in mind that the full process of Convention ratification will be a time consuming process that could take years, as has been the case with most existing Conventions, Treaties and Agreements of an international nature that deal with transboundary water resources.
 - b) Address the priority issues described in the SAP and the TDA (See Annex 1) through priority projects and sub-components. More specifically:
 - address the priority hotspots described in the TDA

- address the issue of excessive fishing pressure in the littoral zone
- address the issue of excessive fishing pressure in the Pelagic zone
- introduce measures to manage the ornamental fish trade
- introduce actions to manage future mining operations
- introduce actions to help prevent and control major marine accidents
- introduce actions to promote sustainable agricultural practices which reduce non-point source pollution
- undertake specific measures to counteract deforestation; and
- build national capacity to support parks management

The Rationale for the PDF-B Request

- 18. The GEF has already made a major investment under Phase 1, in the improved management of the international waters of Lake Tanganyika, with the \$10 million financing of the project "Pollution Control and Other Measures to Protect Biodiversity in Lake Tanganyika". The result of this investment has been the development of the TDA, the regional Strategic Action Programme and the draft Convention through a process of joint consultation and negotiation by the four riparian countries. The Executive Summary of the Final Evaluation of the Pilot Phase Project is attached as Annex 2.
- 19. In support of these primary objectives the project has produced a body of scientific and technical reports on the state of the lake. These reports were prepared by the Special Studies programmes, which included Biodiversity, Fishing Practices, Pollution, Sedimentation and Socio-economics to provide the human context, within which conclusions could be discussed, developed and implemented. The project also initiated a range of training and environmental education programmes.
- 20. In order to achieve these outputs, the project initiated a process of public involvement and stakeholder consultation in the design of the SAP and the Convention. Implemented at the national level, both the public and private sector, and NGOs helped in the detailed development of the national actions that were then prioritised at the regional level and form the priority national actions within the SAP.
- 21. The fact that this has been achieved despite continued disturbances in the Great Lakes region, affecting all four countries directly or through refugee movements, demonstrates strong commitment to the joint management of this major international waters and global biodiversity resource.
- 22. The long-term scenario envisaged in the SAP is for a regional programme, coordinating a large number of national project sub-components dealing with identified hot spots and sources of transboundary problems, and supporting these activities through monitoring and information exchange.
- 23. The financing of the long-term programme defined by the SAP is expected to involve a large number of institutions at regional and country levels. These will include a substantial base-line funding element from the participating countries, bilateral support to national projects, investment through the regional facilities such as the AfDB and private investment from commercial sources, as well as support from the GEF and other multilateral agencies. The AfDB hosted a UNDP-GEF/FAO

- meeting in Abidjan on November 13-14, 2000 to begin discussing the interface between FAO fisheries related work on Lake Tanganyika and the ongoing work of the GEF International Waters project. UNDP-GEF and the FAO have already begun discussions on how to assure complementarity of effort and the more precise discussions of co-funding that will be made available for implementation of the GEF Full project. The AfDB will also sponsor a Donors Conference toward the end of PDF-B activity and the project provides funding for this activity.
- 24. The coordination of the implementation of the Convention and the SAP will be the responsibility of a permanent management body The Lake Management Authority, which will become effective on the signing of the Convention. Until the Convention is signed and ratified, there is a need for an interim lake management body to implement the SAP and promote the Convention. The SAP therefore proposes the creation of an Interim Lake Tanganyika Management Body. However, the immediate requirement is for the support of a planning unit that will finalise the project proposals and negotiate funding for the long-term implementation of the SAP.
- 25. The PDF-B grant will therefore be used to support an interim detailed planning and donor recruitment period over one year that is essential before SAP implementation can take place. The proposal covers two key areas:
 - Detailed project design for SAP implementation including sub-projects addressing major issues, and negotiation for bilateral, multilateral, regional and national co-financing; and
 - The need to recruit additional donors to complement the funding that will be sought from the GEF.
- 26. The project design is very complex, as it covers several countries and will include the participatory design of many sub-projects, all of which will need to be detailed to such an extent that they can be stand-alone proposals for the purpose of leveraging. A major effort will also be put into actually leveraging co-financing for the project proposals. The funding request of the GEF is matched by considerable co-financing.
- 27. The grant will contribute to the running of the Lake Tanganyika Planning Support and Co-ordination Unit, a regional body with immediate responsibility for refinement of the existing SAP and the promotion of the Convention. The Unit, with staff recruited from within the region, will directly support national planning units in developing national project components of the SAP. The functioning of the Planning Unit will be overseen by a Project Steering Committee with strong regional presence.
- 28. The cost of managing the Lake Tanganyika Planning Support and Co-ordination Unit is clearly a transaction cost associated with adopting a regional approach to concerted action to address global biodiversity and international waters issues. This falls directly within the remit of the GEF, as it is a transaction cost, and the GEF may be expected to financially support the functioning of the unit, on an interim basis.
- 29. The project is fully consistent with the GEF International Waters Operational Programme Number 9: Integrated land and Water Multiple Focal Area and has additional linkages to the Biodiversity Operational Programme Number 2: Coastal, Marine and Freshwater Ecosystems.

Description of the PDF-B Project Proposal

- 30. The proposed PDF-B Project addresses the final details of design and financing negotiation for the regional and national project components identified as priorities in the Strategic Action Programme for the Sustainable Management of Lake Tanganyika. Work undertaken during the PDF-B will also contribute to the eventual establishment of an Interim Lake Management body, as many of the national personnel employed in the work of PDF-B execution will likely be the same personnel who will have roles to play as part of the Lake Management Body.
- 31. The development of the SAP has been a regional exercise. The SAP identifies priorities for specific national actions addressing hot spots affecting the shared regional and global resources of the lake. It identifies the key national agencies responsible for leading these actions and the stakeholders that will need to be involved in the consultation and implementation process. It also indicates where resources are considered to be limiting.
- 32. The SAP process is not complete. A substantial list of remedial/preventative actions has been identified both at national and multi-country level, and the latest iteration of the SAP has ranked identified problems (e.g. urban pollution from Bujumbura, sedimentation from mid-sized catchments, over-fishing in the littoral zone, and habitat destruction) in priority order. These prioritized issues (activities) from the SAP are attached to this document as Annex 3 and define the what, why, where and, to some extent, the how of what needs to be addressed. However, further preparatory assistance will be required to bring greater specificity to, and define the exact funding necessary for, regional and national project components. Further, additional preparatory assistance will be required to prepare budget proposals for national activities that will have to be negotiated between national institutions and donor agencies.
- 33. An objective of the PDF-B project is to support regional and national planning teams in preparing detailed costed proposals for national and regional project components within the framework of the SAP. The project will continue to facilitate the process of public involvement in the further development of national and regional actions through a series of national consultative workshops that would be held in each country.
- 34. The PDF-B project specifically includes the development of co-financing arrangements for regional and national project components through national and regional negotiation with multilateral, bilateral, governmental and non-governmental agencies and commercial and private investors.
- 35. The output of the PDF-B project will be a fully-costed GEF project proposal (Project Brief and Project Document) indicating agreed incremental costs, the sources of baseline funding and co-financing required to implement national and regional projects, and information detailing the extent of specific country and additional donor commitments necessary for successful SAP implementation. The output and activities will expressly include:
 - A detailed and agreed proposal for a regional mechanism for coordinating and promoting the SAP implementation
 - A detailed and agreed proposal for implementing regional actions consistent with the Matrix above and Annex 1 of this proposal, including information

- management and free access to relevant information and implementation of regional cross-cutting interventions
- A set of agreed proposals for national project sub-components, drawn from the priority actions listed in the SAP and finalised through a process of stakeholder consultation
- A set of agreed proposals for public and private investment in national SAP priority interventions

The Lake Tanganyika Planning Support and Co-ordination Unit

- 36. The SAP has identified the need for an Interim Lake Management body to coordinate the implementation of regional and national actions and finalisation of the Convention, pending the creation of the permanent management authority under the Convention. The immediate requirement is therefore for a central planning support group to fulfil this function the creation of a Lake Tanganyika Planning Support and Co-ordination Unit with specific duties to co-ordinate project development and negotiate funding necessary to full SAP implementation. More specifically, the Unit would be responsible for activities such as that necessary to the maintenance of close and continuing contact with the FAO and with the AfDB, which has indicated a strong interest in supporting the FAO and the GEF on projects related to the Lake. The Unit will report to a regional project Steering Committee, and country Interministerial Committees will be formed and meet on an as needed basis to inform the work of the Interim Lake Management body as well as to facilitate important country political level commitment to the work of the project.
- 37. The Lake Tanganyika Planning Support and Co-ordination Unit will have a permanent office provided by the host country, Tanzania. Office equipment, a vehicle and other materials will be passed from the Phase 1 GEF project to the new office, minimising costs and delays in project start-up. The host country will cover the rent and maintenance of the office.
- 38. The Unit will be a full time senior level planning support group, led by a Chief Technical Adviser with staff recruited from within the region. It will have a significant role in supporting and in some cases initiating the negotiation of cofinancing from the countries and with donors and the public and private sectors in both the Francophone and Anglophone countries.
- 39. The Project will recruit a full-time CTA as Team Leader to the PSCU, fluent in English and French and with considerable experience in project planning for sustainable development and natural resource programmes.
- 40. The Unit will need four additional regionally recruited support staff with expertise in socio-economics, project planning and costing, and environment and natural resource systems. The Unit will require additional secretarial and administrative support, as well as full-time translator.
- 41. The Project will have additional funds for the recruitment of regional or international consultants. These will support specialist regional planning needs and provide planning and training assistance in the four countries to develop detailed national project sub components.
- 42. Staff from the Unit will spend much of their time away from the office, working in the participating countries in support of national planning staff responsible for preparing and negotiating project components. The Unit will be responsible for

- ensuring coherence between proposals for different sectors and for related proposals in different countries, and for maintaining the framework of the SAP.
- 43. The Unit will be responsible for the organisation of the two tri-partite meetings of the Steering Committee.
- 44. Given the complexity of these tasks, the Unit will require a minimum operational time span of one year.

The National Planning Teams

- 45. The SAP identifies national project components (as described in Annex 1) within a regional framework. Through their formulation and support of the SAP and the Convention, the participating countries have affirmed their responsibility for implementing national project sub-components.
- 46. The Project will provide funds to support national workshops that will promote public involvement in the detailed design of national actions within the framework of the SAP. This will include further consultation with major groups, local communities, NGOs and the private and public sectors.
- 47. The Project will provide funds to organise donor meetings in the participating countries. During execution of this PDF-B activity, preparation for the Full Project, and after its completion, financial sustainability, will be assured by the recruitment of donors additional to the AfDB, and the incorporation of collaboratively identified priorities into the national budgets of the participating countries. The AfDB has expressed strong interest in the fisheries component of the project and has already begun a collaborative working relationship with the UNDP-GEF, FAO and the participating countries on this project priority. The AfDB has also agreed to host the Donor Conference that is part of this PDF-B proposal. These activities will act as a national focus for donor and commercial project funding discussions. While all national staff and office costs will be met from national contributions, the Project will provide essential support for overall national co-ordination of the development of national project sub-components.
- 48. Although planning mechanisms and protocols for negotiating with donors differ in each country, there are key agencies that will take a lead role in this process. In most cases national agencies already have a defined sectoral planning mandate, and the SAP identifies the key agency responsible for developing a particular national project sub-component. There will be no single national planning team, interministerial project planning teams will form and change in response to the particular requirements for consultation of each project sub-component.
- 49. At higher levels, the responsibility for coordinating these national project subcomponents generally falls under a single planning authority, and the negotiation of financial agreements lies with the treasury. It is anticipated that there will be regular meetings of national working groups to harmonise sectoral projects or project components.
- 50. The costs of these broad national planning teams will be covered by the operating budgets of their home agencies. The direct costs include staff salaries, office costs and materials. Given the demand led nature of national consultation processes, it is impossible to define the exact staff numbers and agencies, which will be working with the project. It is therefore difficult to assign precise values to national

- contributions, but the effort has been made to assign such values to the best ability of the project planners and the CTA.
- 51. The costs of national contributions are therefore based on the assumption that there will be the equivalent of four full time planners involved in national planning process, with additional costs associated with the provision of office facilities, and supported by the national working groups.

Project Implementation

- 52. The UNDP will assist the riparian governments in executing the PDF-B project through the Lake Tanganyika Planning Support and Co-ordination Unit. The implementation arrangements are expected to be put into place as soon as possible to maintain the momentum within the region that achieved the development of the SAP and the Convention. The present project agreement will be completed this year, with the present project office closing at the end of July 2000. The PDF-B project should therefore become effective as soon after this date as possible.
- 53. UNOPS will execute the project on behalf of UNDP-GEF. A final product of PDF-B will be a full GEF Project Brief and ensuing Project Document. Financial provision for this derives from already allocated funds for Regional Staff Support.

Project Financing

- 54. The total PDF-B grant request is \$ 595,000, out of a total Project cost of \$ 1,000,000. Out of the total request of \$ 595,000 there is an allocation of \$ 44,100, which is eight percent of the total GEF supported program costs, for the Executing Agency's support costs. The total amount requested from GEF was calculated consistent with the needs to complete a full project submission and undertake the requisite donor consultations.
- 55. The direct value of the inputs provided through national and regional contributions is \$ 324,000. National and regional contributions include the provision of office space for the Lake Tanganyika Planning Support and Co-ordination Unit, the salaries of national planning staff assigned to the development of national project components, the provision of national office facilities and the salaries of staff.
- 56. The critical factor in the project cost estimates is the period required for consultation and negotiation, and hence the length of time that the Planning Unit has to be supported. The project has a timeframe of twelve months. This is considered to be the absolute minimum to finalise detailed project proposals and negotiate financing and co-financing, and even then only the first few can be expected to become operational by the end of the PDF-B project period. Other project components can be expected to come on-stream over the following year or two as donor and commercial project evaluation and financing cycles are completed and national and regional institutions gain the capacity to implement interventions.
- 57. Following is the projected budget for PDF-B activities.

BUDGET

Project Total:

PDF-B Financing (US \$)	National	AfDB	GEF	Total
Regional Project Office	60,000			60,000
Project Staff/Travel		71,000	216,900	287,900
Project Office Running Costs			36,000	36,000
CTA (1 Year)			160,000	160,000
International Consultants			30,000	30,000
National Planning Staff Costs	192,000			192,000
National Planning Office Costs	24,000			24,000
National Working Groups	48,000			48,000
Stakeholder Consultation			15,000	15,000
Donor Consultations		20,000	28,000	48,000
National Coordination			40,000	40,000
Appraisal Mission		15,000		15,000
Steering Committee Meetings			25,000	25,000
Sub-Total	324,000	106,000	550,900	980,900
EA Support (8% of GEF Total)			44,100	44,100
Total Regional Contribution	324,000			
Total AfDB Contribution		106,000		
Total GEF Contribution			595,000	

1,025,000

Notes on Budget

National and Regional Contributions: Project Office – will be provided by the host country based on \$5,000 per month, includes rent and maintenance costs.

National Planning Staff Costs – to be assigned by participating countries based on equivalent of four full time planners per country at \$ 1000 per planner per month.

National Planning Office Running Costs – will be used by national planning staff and regional support staff based on equivalent \$ 500 per country per month.

National Working Group Support – these are equivalent costs of provision of facilities, staff time and other resources at \$ 1000 per country per month.

AfDB and GEF/International Contributions: Project Staff Costs and Travel – these will be based on an average monthly salary of \$3,000 for the four regionally recruited experts, who are each expected to make about one national support trip per month (estimated total of 43 trips) over 11 months, lasting between one week to ten days – airfares at US 1,000 each and subsistence at US\$ 1000; with an additional US\$ 4,000 per month to cover the salaries of the support staff (secretary and administrator, and translator).

Project Office Running Costs – to be based on \$4,000 per month, with all equipment and a vehicle provided from the Phase 1 GEF project;

Long Term CTA – based on one full time Chief Technical Advisor at \$ 150,000 per year, covering salary, housing, and travel and subsistence;

Regional/International Consultancies – based on six man-weeks at \$5,000 per week (fees, travel and subsistence). Charge rates may be reduced through the use of regional consultants and the savings used for additional consultancy support.

National Stakeholder Consultation Workshops – based on two workshops in each country at \$ 2,500 per event for the venue and facilities. The costs include direct costs to the National Working Groups in facilitating meetings.

National Donor Meetings – one to be held in each country to promote donor discussion and cofinancing support, at \$2,000 per event for the venue and facilities, as well as an additional \$32,000 for the AfDB hosted donor meeting. The costs include direct costs to the National Working Groups in facilitating meetings.

National Co-ordination Support – based on US\$ 10,000 per year per country, supplementing the country contributions for National Working Group Support

List of Annexes

Annex 1 - Tables of National Actions and Commitments

Annex 2 – Detailed Budget

Annex 3 – Terms of Reference

Annex 4 – Final Evaluation Executive Summary

Annex 5 – Summary List of Actions of the Strategic Action Program

Annex 1 – Tables Describing National Actions and Commitment

National Actions in Response to Excessive Fishing Pressure in the Littoral Zone

Specific Problem	Proposed Actions and Key Agency
Burundi : Excessive fishing pressure Stakeholders : Fisheries	Ascertain potential, fishing standards and acceptable licensing quotas – $\mbox{\rm MAE}$
administration (including MAE– Fisheries Dept and Territorial	Support other income generating activities or those that supply animal proteins – MDC
Admin.); Fishermen; Owners of fishing units; MINATE (INECN); NGOs; Local associations and	Strengthen capacities for Fisheries Dep. to control and supervise – MAE
communities; UB Uncertainties: Potential of resources	Raise awareness and train (fishermen, boat owners, administration) – MAE
Checitameres. Forential of resources	Update and issue draft law and by–laws, as well as ordinances – MAE
	Translation in Kirundi and extension – MAE
Congo: Excessive fishing pressure in the northern part of the lake Stakeholders: Min Env; Fishermen	Strengthen regulations: introduce licence system (according to type of FU) with recording of existing fishermen; regional harmonisation – Min of Env
and associations of fishermen; Local	Strengthen control – Min of Env
authorities; CRH; Fish sellers; NGOs	Improvement of statistics – CRH
and local communities; MINAGRI Uncertainties: Maximal exploitable	Assessment of potential (maximal exploitable production) both in Northern and Southern zones – CRH
production	Feasibility study of tax raising system aiming to regulate fishing effort (feeding at the same time a lake management fund) – CRH
	Identify reasons of catches increase in the South - CRH
	Identify actions to develop fish farming - CRH
	Raise awareness – information – Min of Env
	Research aiming at establishing how better fish conservation could decrease pressure on stock and favour transfer of demand towards bigger fish – CRH
Tanzania: Lack of quota on fishing	Review LTR conclusions – TAFIRI
licences	Assess relevance to fish biodiversity issues – TAFIRI
Stakeholders: Fisheries; Communities; Local Authorities;	Assess trend in expansion of licensing – Fisheries Dept.
TAFIRI	Review licensing procedures – Fisheries Dept.
Uncertainties: Optimal quota; Available Stock; Impact on Biodiversity	
Zambia: Excessive coastal fishing	Promotion of alternative livelihoods – Community
Stakeholders : Artisanal Fishermen; Subsistence Fishermen: Dep.	Development Assess impact of fishing gear – Dep. of Fisheries
Subsistence Fishermen; Dep. Fisheries; Local Leaders;	Raise awareness – Dep. of Fisheries
Community Based Organisations	Strengthen Dep. of Fisheries – Dep. of Fisheries
Uncertainties : Optimal level of extraction; Impact of fishing gear on fisheries and biodiversity	Negotiate co–management with identified communities in specific fishing zones – Dep. of Fisheries

National Actions in Response to Excessive Fishing Pressure in the Pelagic Zone

Specific Problem	Proposed Actions and Key Agencies
Burundi : Excessive offshore fishing	Establish standards and quotas for acceptable fishing practices
Stakeholders: Fisheries	- MAE
administration (including MAE– Fisheries Dept and Territorial	Put in place a minimum capacity to control lake fisheries – MAE
Admin.); Fishermen; Owners of	MAL
fishing units; MINATE (INECN);	
NGOs; Local associations and communities; UB	
Uncertainties: Acceptable catch	
Congo: Uncontrolled offshore	Research into best mesh sizes and fishing methods – CHR
fisheries	Studies on secondary species – CRH
Stakeholders: Min. of Env; Fishermen; Local Authorities; Fish traders; Net manufacturers; CRH; NGOs; Local Communities	Legislation distinguishing between three levels of activity, banning excessively fine nets, limited permits for appropriate net types and banning destructive fishing practices – Min of Env
Uncertainties: Optimal mesh size	Support to control capacity – Min of Env
and net type; Impact on biodiversity	Education and awareness raising - Min of Env
Zambia: Excessive Industrial and Artisanal Fishing	Raise national and Local Political Awareness – Dept of Fisheries
Stakeholders : Commercial Fisheries; Artisanal Fishermen; Local	Negotiate interim acceptable fleet and means of reducing fleet – Dept of Fisheries
Authority; Dep. of Fisheries;	Establish optimal fleet composition – Dept of Fisheries
Community Based Organisations; Local Leaders; Licensing Committee	Integrate proposals with LTR Fisheries Programme – Dept of Fisheries
Uncertainties : Optimal fishing levels; Market Distribution	Review licensing procedures – Dept of Fisheries
10 (015), Market Distribution	Strengthen local capacity to monitor and enforce regulations— Dept of Fisheries

National Actions to Control Urban Pollution

Constellation	Decreased Astronomy 17 and a second
Specific Problem	Proposed Actions and Key Agencies
Burundi : Pollution from urban waste	Expansion of treatment capacities – SETEMU
Particularly from Bujumbura and	Set up controlled site disposal and collect waste – SETEMU
Rumonga Stokoholdore: MINATE (DC ATE :	Raise awareness and train – MCIT
Stakeholders: MINATE (DG ATE; INECN); Mayor (SETEMU); MCIT; CCIB; Regideso; MTPE; MSP;	Regulations for marketing of dangerous products for environment – MINATE
BBN; NGOs; Local associations and communities	Develop standards for enforcement of legislation relating to waste – $MINATE$
Uncertainties: Nature and quantity of effluents; Impact of pollutants on	Implement land use plans in the framework of planning schemes – MTPE
biodiversity	Strengthen capacities for INECN to monitor and control – MINATE
	Support development of secondary urban centres – MTPE
	Surveying pollution and impact levels, monitor and follow up – MINATE
Congo: Pollution by domestic	Identification of pollutants, evaluation of impact – CRH
effluents and waste	Sanitation (construction of latrines, installation of controlled
Stakeholders: Ministry of	disposal sites and waste collecting, setting up waste and
Environment; Local Authorities; Population; NGOs and Local	sewage network connected to a treatment plant): Uvira, Mboko, Kalemie, Moba, Baraka – Min of Env
communities; Urban services;	Health education – Health Services
INERA; Ministry of Energy	Research – focused on recycling through agricultural and
Uncertainties: Nature and quantity	energy – INERA
of pollutants and impact on the Lake biodiversity	Develop appropriate legislation and support enforcement capacity – Min of Env
Tanzania: Discharge of untreated	Review existing town development plans – Min of Lands
domestic waste, Kigoma Town Stakeholders: Local Council;	Incorporate proposals for sewage, waste water and water supply – Min of Lands
Regional Authority; Min of Water; Min of Health; Min of Lands	Propose developments & promote awareness to counteract existing situation of open drains etc. – Min of Lands
Uncertainties: Impact on biodiversity; Quantity and type of effluents	
Tanzania: Discharge of untreated	Enforce regulations – Min of Water
waste from institutions (Police,	Identify reasons for non-compliance - UWS&S Dept
Prisons, Railway Station, Docks) Kigoma Town	Promote Senior level awareness - Local Authorities
Stakeholders: Police; Prisons; TRC; Local Council; Min of Water; Min of	Identify and propose practical treatment works and disposal sites – Min of Water
Health; Min of Transport; Regional Authorities	Implement proposals and regulations – Min of water
Uncertainties: Impact on biodiversity; Quantity and type of effluents	

Tanzania: Inappropriately sited solid Identify appropriate sites - Town Council waste dumps Kigoma Town Review present collection and disposal procedures - Town Stakeholders: Local Council; Council Regional Authority; Min of Water; Check existing and introduce appropriate local regulations; Min of Health; Min of Lands; Develop appropriate landfills - Town Council Communities **Uncertainties:** Impact on biodiversity; Leaching and surface run-off Zambia:Discharge Assess scale of problem and impact on biodiversity- ECZ of untreated domestic effluent, Mpulungu and Review design of existing sewerage systems, assess potential **Shoreline Settlements** for alternatives - Local Council Stakeholders: Local Authority; Link with existing D-WASHE programme-Local Council Water Affairs; Fisheries Dept; Local Implement alternatives-Local Council Communities; District Health Monitor effluent disposal – ECZ Management Team; D-WASHE; ECZ Raise awareness of issues – ECZ Uncertainties: Scale of problem and impact on biodiversity Zambia: Uncontrolled Waste Assess scale of problem and impact on biodiversity – ECZ Dumping in and around Mpulungu Raise awareness of issues - ECZ Stakeholders: Transporters; Fishing Monitor disposal – ECZ Companies; Local Authority; Water Enforce regulations - Local Council Affairs; Zambia Revenue Authority; Fisheries Dept; Local Communities; District Health Management Team; **ECZ** Uncertainties: Scale of problem and impact on biodiversity

National Actions to Control Harbour Pollution

Stakeholders: MTPET (Lake transport), Ship owners, EPB, INECN – MINATE (INECN), MCIT, Lake Guard Uncertainties: Scale of threats Tongo: Harbour Pollution (Kalemie,Kabimba, Kalundu, Moba) Stakeholders: Ministry of Environment: Transport and Communication; CRH; Ship owners Uncertainties: Nature and quality of pollutants and impact on the Lake biodiversity Tanzania: Pollution in harbours (particular concern over storage and handling of oil) Stakeholders: TRC; Ship Owners (Operators; Local Council; Oil Companies; Shipping Department, NEMC; Min of Transport on biodiversity Zambia: Pollution in harbours (particular concern over storage and handling of oil and other cargoes) Stakeholders: Rollution in harbours (particular concern over storage and handling of oil and other cargoes) Stakeholders: Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes and Scenarios	Specific Problem	Proposed Actions and Key Agencies
transport), Ship owners, EPB, INECN – MINATE (INECN), MCIT, Lake Guard Uncertainties: Scale of threats The stabilish as shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repairing of Ships – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Establish a shipyard for maintenance and repai	Burundi: Pollution in harbours	Promulgation of Lake Traffic Act, and extension – MTPET
Harmonise regulations and supervising activities and control with the other riparian states — MTPET Establish a shipyard for maintenance and repairing of ships — MTPET Establish a shipyard for maintenance and repairing of ships — MTPET Congo: Harbour Pollution (Kalemie, Kabimba, Kalundu, Moba)	transport), Ship owners, EPB,	of ships – MTPET
Harmonise regulations and supervising activities and control with the other riparian states – MTPET Establish a shipyard for maintenance and repairing of ships – MTPET Congo: Harbour Pollution (Kalemie, Kabimba, Kalundu, Moba) Stakeholders: Ministry of Environment; Transport and Communication; CRH; Ship owners		Evaluate scale of the problem of lake pollution – MINATE
Congo: Harbour Pollution (Kalemie,Kabimba, Kalundu, Moba) Stakeholders: Ministry of Environment; Transport and Communication; CRH; Ship owners Uncertainties: Nature and quality of pollutants and impact on the Lake biodiversity Tanzania: Pollution in harbours (particular concern over storage and handling of oil) Stakeholders: TRC; Ship Owners / Operators; Local Council; Oil Companies; Shipping Department; NEMC; Min of Transport Uncertainties: No information on specific handling problems; Impact on biodiversity Zambia: Pollution in harbours (particular concern over storage and handling of oil and other cargoes) Stakeholders: Mpulungu Population; Water Affairs; Maritime Department; Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes		
Update regulations (eco tax combined system dissuading from legal pollution and penalising illicit pollution) – Min of Env Strengthen control – Min of Env Installation of controlled disposal sites on dry land – Min of Env Installation of controlled disposal sites on dry land – Min of Env Installation of controlled disposal sites on dry land – Min of Env Installation of pollutants and assessment of their impact on the lake biodiversity – CRH Tanzania: Pollution in harbours (particular concern over storage and handling of oil) Stakeholders: TRC; Ship Owners / Operators; Local Council; Oil Companies; Shipping Department; NEMC; Min of Transport Uncertainties: No information on specific handling problems; Impact on biodiversity Zambia: Pollution in harbours (particular concern over storage and handling of oil and other cargoes) Stakeholders: Mpulungu Population; Water Affairs; Maritime Department; Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes		
Stakeholders: Ministry of Environment; Transport and Communication; CRH; Ship owners Uncertainties: Nature and quality of pollutants and impact on the Lake biodiversity Tanzania: Pollution in harbours (particular concern over storage and handling of oil) Stakeholders: TRC; Ship Owners / Operators; Local Council; Oil Companies; Shipping Department; NEMC; Min of Transport Uncertainties: No information on specific handling problems; Impact on biodiversity Zambia: Pollution in harbours (particular concern over storage and handling of oil and other cargoes) Stakeholders: Mpulungu Population; Water Affairs; Maritime Department; Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes		Raise awareness – Min of Env
Communication; CRH; Ship owners Uncertainties: Nature and quality of pollutants and impact on the Lake biodiversity Tanzania: Pollution in harbours (particular concern over storage and handling of oil) Stakeholders: TRC; Ship Owners / Operators; Local Council; Oil Companies; Shipping Department; NEMC; Min of Transport Uncertainties: No information on specific handling problems; Impact on biodiversity Zambia: Pollution in harbours (particular concern over storage and handling of oil and other cargoes) Stakeholders: Mpulungu Population; Water Affairs; Maritime Department; Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes Installation of controlled disposal sites on dry land – Min of Env Identification of pollutants and assessment of their impact on the lake biodiversity – CRH Identification of pollutants and assessment of their impact on the lake biodiversity – CRH Identification of pollutants and assessment of their impact on the lake biodiversity – CRH Identification of pollutants and assessment of their impact on the lake biodiversity – CRH Identification of pollutants and assessment of their impact on the lake biodiversity – Fisherie range – Min of Water Review reasons for non–enforcement of regulations – Min of Water Implement short term and long term remedial actions – Min of Water Carry Out Risk Assessment – Maritime Review Potential Impact on Biodiversity – Fisheries Mitigate impacts and put in place emergency response capacity – Harbour Authority	Stakeholders : Ministry of Environment; Transport and	legal pollution and penalising illicit pollution) – Min of Env
Tanzania: Pollution in harbours (particular concern over storage and handling of oil) Identification of pollutants and assessment of their impact on the lake biodiversity – CRH	•	Installation of controlled disposal sites on dry land - Min of
(particular concern over storage and handling of oil) Stakeholders: TRC; Ship Owners / Operators; Local Council; Oil Companies; Shipping Department; NEMC; Min of Transport Uncertainties: No information on specific handling problems; Impact on biodiversity Zambia: Pollution in harbours (particular concern over storage and handling of oil and other cargoes) Stakeholders: Mpulungu Population; Water Affairs; Maritime Department; Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes Check and review regulations and recommended procedures — Min of Water Review reasons for non–enforcement of regulations — Min of Water Carry Out Risk Assessment — Maritime Review Potential Impact on Biodiversity — Fisheries Mitigate impacts and put in place emergency response capacity — Harbour Authority		Identification of pollutants and assessment of their impact on
Stakeholders: TRC; Ship Owners / Operators; Local Council; Oil Companies; Shipping Department; NEMC; Min of Transport Uncertainties: No information on specific handling problems; Impact on biodiversity Zambia: Pollution in harbours (particular concern over storage and handling of oil and other cargoes) Stakeholders: Mpulungu Population; Water Affairs; Maritime Department; Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes Review reasons for non–enforcement of regulations – Min of Water Water Implement short term and long term remedial actions – Min of Water Carry Out Risk Assessment – Maritime Review Potential Impact on Biodiversity – Fisheries Mitigate impacts and put in place emergency response capacity – Harbour Authority	(particular concern over storage and	Check and review regulations and recommended procedures –
Uncertainties: No information on specific handling problems; Impact on biodiversity Zambia: Pollution in harbours (particular concern over storage and handling of oil and other cargoes) Stakeholders: Mpulungu Population; Water Affairs; Maritime Department; Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes Water Water Water Carry Out Risk Assessment – Maritime Review Potential Impact on Biodiversity – Fisheries Mitigate impacts and put in place emergency response capacity – Harbour Authority	Operators; Local Council; Oil	Review reasons for non-enforcement of regulations – Min of Water
Uncertainties: No information on specific handling problems; Impact on biodiversity Zambia: Pollution in harbours (particular concern over storage and handling of oil and other cargoes) Stakeholders: Mpulungu Population; Water Affairs; Maritime Department; Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes Carry Out Risk Assessment – Maritime Review Potential Impact on Biodiversity – Fisheries Mitigate impacts and put in place emergency response capacity – Harbour Authority Harbour Authority	NEMC; Min of Transport	•
(particular concern over storage and handling of oil and other cargoes) Stakeholders: Mpulungu Population; Water Affairs; Maritime Department; Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity – Fisheries Review Potential Impact on Biodiversity – Fisheries Mitigate impacts and put in place emergency response capacity – Harbour Authority Harbour Authority	specific handling problems; Impact on biodiversity	
handling of oil and other cargoes) Stakeholders: Mpulungu Population; Water Affairs; Maritime Department; Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes Mitigate impact on Diffaret on Dif		Carry Out Risk Assessment – Maritime
Stakeholders: Mpulungu Population; Water Affairs; Maritime Department; Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes	•	Review Potential Impact on Biodiversity – Fisheries
Water Affairs; Maritime Department; Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes		
Harbours Authority; Barge Owners; Fisheries Dept; Local Authorities; Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes		– Harbour Authority
Police; Defence; ECZ; Disaster Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes	Harbours Authority; Barge Owners;	
Management Unit Uncertainties: Impact on Biodiversity of Different Cargoes		
Uncertainties: Impact on Biodiversity of Different Cargoes		
Biodiversity of Different Cargoes		
	Biodiversity of Different Cargoes	

National Actions to Control the Ornamental Fish Trade

Specific Problem	Proposed Actions and Key Agencies
Burundi : Excessive or uncontrolled extraction of ornamental fish	Prepare list of threatened species and proposal of inclusion in CITES lists – MINATE
Stakeholders: MINATE (INECN); MAE (Fisheries dep.); Exporters; Sellers; Customs; BRB; NGOs; Local associations and communities Uncertainties: Scale of problem and impact Congo: Excessive or uncontrolled extraction of ornamental fish Stakeholders: Local authorities; CRH; Customs; Exporters; Min	Regulations, control, monitoring– MINATE Encourage fish farming of those species – MAE Raise awareness– MINATE Set up protected areas (demarcation, eco – tourism development, management plans) – MINATE Improvement and strengthening of licence delivery (authorised species, quantities, extraction sites) – Min of Env Strengthen extraction and exporting control– Min of Env Establish natural reserves: Luhanga, Pemba, Kalamba,
Environ; ICCN Uncertainties: Vulnerability of all the species potential per species and per site	Kiriza(Ubwari) and Bangwe – ICCN Additional prospecting in order to expand the network of protected areas – CRH Inscription of lake Cichlides on CITES list, except fish identified as capable to support extraction – Min of Env
Tanzania: Excessive or uncontrolled extraction of ornamental fish Stakeholders: Licensed Traders; Fisheries; TAFIRI; Foreign Affairs; Home Affairs; Customs Uncertainties: Endangered species; Extent of threat	Identify threatened species – TAFIRI Regional agreement on exportable species by country of origin – Fisheries Dep. Monitor numbers and species exported – Fisheries Dept / Customs Raise senior level awareness of problems – Fisheries Dept Establish species quotas – TAFIRI Review number of licensees – Fisheries Dept Examine possibility of inclusion in CITES list – Fisheries Dept
Zambia: Excessive or uncontrolled extraction of ornamental fish Stakeholders: Commercial Fishers; Local Authorities; Fisheries Dept; Parks; Museums; Communities and Local Leaders; Revenue Authority Uncertainties: Scale / Impact of Extraction	Ascertain Scale and Impact – Fisheries Dept Raise Public Awareness – Establish Aquarium – Fisheries Dept Define Levels of Extraction – Fisheries Dept Review License / Export Fees – Fisheries Dept Establish Local Regulations – Fisheries Dept Evaluate Potential for Captive Breeding – Fisheries Dept Review Inclusion of Species in CITES – Parks

National Actions to Manage Future Mining Operations

Specific Problem	Proposed Actions and Key Agency
	EIA prior to start mining – MINATE
	Review Oil and Mines Act in order to take into account environmental impacts – MEM
MINATE; mining companies; oil	Negotiate agreements with other riparian countries – MEM
TI4-242 C - 1 C 11 - 41 1	Support the existing chemical and biological laboratories – MINATE
Compare Dellation from fatour minima	Charlies of import on the anning man of CDHAI's of Face
1 11 1 12 21 22 22	Studies of impact on the environment – CRH/Min of Env
	Environment follow up of activities – Min of Env
Stakeholders: Min Environment;	
CRH; CRGM; Min. of Oil; Ministry	
of Energy	
Uncertainties: Probability and site of works	
	Quantify scale and processes used different mining areas – Energy and Minerals
	Promote appropriate technology – Energy and Minerals
Min of Energy and Mines; Min of Water; Regional / Local Authorities; NLUPC; NEMC; Min of Health	Enforce existing regulations – Energy and Minerals
Uncertainties: Scale of problem	
encertainties. Scale of problem	

National Actions in Response to Major Marine Accidents

Specific Problem	Proposed Actions and Key Agencies
Burundi: Pollution from major	Promulgation of Lake Traffic Act, and extension – MTPET
marine accidents Stakeholders : MTPET (Lake	Control enforcement of Act, and continue technical checking of ships – MTPET
transport), Ship owners, EPB;	Evaluate scale of the problem of lake pollution – MINATE
MINATE (INECN), MCIT, Lake Guard; MAE (Fisheries)	Harmonise regulations and supervising activities in riparian states – MTPET
Uncertainties: Scale of threats	
Congo : Pollution from major marine accident	Raise awareness (ship operators and other stakeholders) – Min of Env / Transp. and Comms.
Stakeholders:Min. of Environment;TransportandCommunicationservice;CRH;Ship owners;CRSN;ExternalCommerce;Congolese	Review regulations (navigation rules; pollution and security standards, transport of hazardous cargo) – Min of Env Strengthen control – Min of Env Technical control of ships (with anti–pollution and security
Office for Control	standards) – Trans. and Comms.
Uncertainties: Nature and quantities of pollutants and impact on lake	Pollution monitoring – CRSN
biodiversity	Evaluate impact (scale of problem, frequency of discharge, risks, harmfulness of pollutants) – CRH
Tanzania: Pollution from major	Risk analysis – NEMC
marine accident	Develop contingency plan – NEMC
Stakeholders: Ship Owners / Barge Operators; Regional Authorities; Shipping Department; NEMC; Min of Transport; Min of Water; NEMC; Insurance Companies; TAFIRI	
Uncertainties: Level of Risk	
Zambia: Pollution from major	Carry out risk assessment – Maritime
marine accident	Review potential impacts on biodiversity - Fisheries
Stakeholders:LargeTransporters;Passengers;MaritimeDepartment;HarboursAuthority;InsuranceCompanies;FisheriesDept;LocalAuthorities;ZRA;Police;Defence;DisasterManagementUnit;Parks;ECZ	Put in place emergency response capacity – Maritime
Uncertainties: Impact on Biodiversity of Different Cargoes and Scenarios	

National Actions to Promote Sustainable Agriculture

Specific Problem	Proposed Actions and Key Agencies
Burundi : Erosion from agricultural practices	Evaluate impact of problem, study the extent of sedimentation in the lake and identify high risk erosion areas – MINATE
Stakeholders : MAE, MINATE, Territ. Admin., Farmers, Research	Plan catchment (agro-forestry, anti-erosive practices), raise awareness and promote participative approach – MINATE
Institutes, MTPE, NGOs, Local associations and communities	Research – development and extension of suitable techniques – MAE
Uncertainties: Impact on biodiversity, scale of sedimentation,	Planning focused on sediment deposits in the valleys, traps for sediments – MINATE
relation between erosion and fragile areas receiving sediments at lake level	Define special standards and prioritise interventions to identified areas – MINATE
Congo: Inappropriate farming	Education and awareness – MINAGRI/SNV
practices and extensive agriculture	Identification of sensitive erosion zones – INERA
Stakeholders : Minagri (SNV); Ministry Environ; INERA; NGOs	Regulation of soil use in these zones – Min of Env
and local communities; CRH; Local authorities; AT	Implementing demonstrations (anti erosive techniques, agrozootechnical, agroforestry integration) – INERA
Uncertainties: Sensitive zones	Extension and support to enforcement capacity – MINAGRI/SNV
Tanzania: Erosion from agricultural	Identify with communities sensitive areas – NLUPC
land (particular concern on steep slopes and cultivating down the	Demarcate hazardous areas and reforest – NLUPC
slope)	Raise awareness of critical issues – Min of Ag
Stakeholders: Min of Agriculture;	Promote soil conservation measures – Min of Ag
Communities; NLUPC; Local	Check/review bye-laws - Local Authority
Authorities; JGI/TACARE	Assist villages in preparing land use plans – NLUPC
Uncertainties:	
Zambia: Erosion from agricultural	Assess Scale, Impact and Risks – Water Affairs
practices (particular concern slash and burn and stream bank cultivation)	Review Alternative Practices including Irrigation – MAFF Research
,	Review Relevance of Existing Regulations - Water Affairs
Stakeholders: Farming Communities; Forestry Department;	Promote Appropriate Farming Practices – Field Services
Ministry of Agriculture; Water Affairs; Local Chiefs; Chongololo	Identify Critical Erosion Sites and Remedial Measures – Water Affairs
Club; Local Authorities; Churches	Monitor enforcement of regulations - Water Affairs
Uncertainties: Scale of Problem and Trend; Cultural and Economic Viability of Alternative Farming Practices	Monitor current practices – Water Affairs

National Actions to Counteract Deforestation

Specific Problem	Proposed Actions and Key Agencies
Burundi: Deforestation	Inventory of forests and evaluate damage - MINATE
Stakeholders : MINATE, MAE;	Strengthen legal basis for Protected Areas – MINATE
NGOs, Local associations and communities	Expansion of network of Protected Areas to cover all natural forests – MINATE
Uncertainties : Scale and distribution	Demarcate PAs and national forests boundaries - MINATE
of clearings; State of resource	Rehabilitation of destroyed parts of PAs and Forests
	Environmental education – MINATE
	Prepare participative management plans for woods and PAs and identify alternative resources – MINATE
	Promote agroforestry and private woods - MINATE
	Compensate people expelled from Pas – Government
	Reinforce the capacity to supervise and control PAs and forests and INECN capacities – MINATE
Congo: Deforestation	Education and awareness (including authorities) – Min of Env
Stakeholders: Ministry of Environment ; ICCN; Local	Promotion of private woods and agro forestry (extension, demonstration) – Min of Env
authorities; NGOs and local communities; Population; Ministry of	Protection and restoring of public forests along rivers – ICCN
Energy; MINAGRI	Identification of forestry areas to be protected – ICCN
Uncertainties:	Establish protected forest areas – Min of Env
	Update legislation – Min of Env
	Strengthen environmental services capacities – Min of Env
	Creation of micro hydropower plants in order to supply substitution energy to protect the catchment – Min of Env
	Action towards improved stoves, improved process for smoking of fish and alternative energy (biogas, solar etc) – Min of Env
Tanzania: Deforestation Stakeholders: Local / Regional	Identify critical encroachment and critical threatened zones – Forestry Dept
Authorities; Communities; Forestry	Create political awareness of problems – Local Government
Department; NLUPC; Min of Lands: TACARE; Min of Local Gov't.	Negotiate with communities to gazette sensitive areas – Local Authority
Uncertainties:	Negotiate means of resettlement from sensitive areas – Local Authority
	Promote community forest management and access rights – Forestry Department
	Enforce bye-laws - Local Authority
Zambia: Deforestation	Assess Impact on Sediment Load – Water Affairs
Stakeholders: Local Communities;	Negotiate Solution to Current Encroachment – MENR
Forestry Department; Parks; Water Affairs; Local Chiefs; Chongololo	Rehabilitate sensitive areas – MENR
Clubs; Politicians	Enable Enforcement of Current Regulations – MENR
Uncertainties: Scale of Impact on Sediment Load	Raise Awareness of Issues, particularly at the Political Level – ECZ
	Promote afforestation – MENR
	Raise local awareness – MENR
	Promote sustainable forest management, agroforestry and promote alternative energy – $MENR$

National Actions to Support Parks Management

Specific Problem	Proposed Actions and Key Agencies				
Burundi : Encroachment in the Rusizi Park areas	 Compensation for expulsion from sensitive zones – MINATE (INECN) 				
Stakeholders : MAE (incl. Fishing dep.); MINATE (INECN); Territ.	Demarcate the boundaries with a 20 metre planted zone between Gitara and Flugara – MINATE (INECN)				
Adm.; Farmers; NGOs; Local associations and communities	Extend the reserve into the littoral; zone to 1000 metres offshore of the 774 metre contour – MINATE (INECN)				
Uncertainties:	Plant hedges to demarcate the reserve in the delta – MINATE (INECN)				
Tanzania: Exploitation of Parks	Raise awareness of parks issues – TANAP				
Fisheries	Involve local communities – TANAPA				
Stakeholders : TANAPA; Fisheries Department; Local Communities					
Uncertainties : Compliance of local communities					
Zambia: Community Pressure on	Involvement of Communities in Parks Management – ZAWA				
Nsumbu National Park	Training in Aquatic Parks Management – ZAWA				
Stakeholders : ZAWA; Lodge Operators; Local Communities; Fisheries	e Define aquatic parks boundary – ZAWA				
Uncertainties: Support from Local Communities					

Specific Problem	Stakeholders	Uncertainties	Proposed Actions		
Burundi – Degradation of sensitive coastal areas	MAE (incl. Fishing dep.); MINATE (INECN); Territ. Adm.; Farmers; NGOs; Local associations and communities	Extent of lake shore activities and impact on biodiversity	Mapping supra littoral area and cultivated area Raise awareness		
			Participative management and non destructive recovering of natural resources Isolate sensitive areas as protected areas		
			(Murembwe, Nyengwe, Rwaba) Control lake shore		
			vegetation expolitation		
Congo – Risk of degradation of coastal	l NGOs, Local Communities		Establish a protected area – Lukuga		
zone; lack of protection of specific key zones (Rusizi, Lukuga, Lukanga, Pemba, Kalamba, Kiriza, Kazimia)			Establish a protected area – Ruzizi		
			Establish protection forsites of special scientific interest – Lukanga, Kalamba, Kiriza, Kazimia		
			Participative preparation of a management plans		
			Hydrologic monitoring (rate of flow from lake)		
Tanzania – Degradation of wetland	Communities; Fisheries; TAFIRI; Local Government; Tourism	Impact on Biodiversity Optimal size of protected areas Community	Negotiate access with communities		
			Gazette areas		
			Raise Awareness		
		Compliance	Ban destructive fishing practices		
7 11 2	76.		Evaluate stock		
Zambia – Damage to Sensitive Habitats	Min. of Agriculture; Min. of Env.; Min of Tourism; Local Authorities; Local Communities; Traditional Leaders	Extent of degradation and impact on biodiversity	Evaluate destructive fishing practices		
Lufuba and Chitula Bay and Chisala River Mouth			Ban specific destructive practices (poison, explosives)		
			Negotiate designation of Chitula and Lufuba bays and Chisala river mouth as conservation areas		
			Negotiate with communities acceptable management practices		
			Develop procedures for capital empowerment of communities to alleviate impact of zone		

designation
Negotiate designation of Lufuba mouth as Ramsar site
Monitor stock levels

Annex 2 – Detailed Budget

	PROJECT NUMBER: RAF01G41				
BL	DESCRIPTION	BL TOTAL	TOTAL	TOTAL	p/m
			Activities	AOS	
10	PROJECT PERSONNEL				
11	International Experts				
11-01	Chief Technical Advisor	172,800	160,000	12,800	12
11-02	International Consultant (Pollution Expert)	8,100	7,500	600	1.5 weeks
11-03	International Consultant (Fisheries Expertise)	8,100	7,500	600	1.5 weeks
11-04	International Consultant (Sedimentation/Non-Point)	8,100	7,500	600	1.5 weeks
11-05	International Consultant (Ecosystem)	8,100	7,500	600	1.5 weeks
11-99	<u>Sub-Total</u>	205,200	190,000	15,200	<u>18</u>
13	Administrative Support				
13-01	PCU Administrator	16,200	15,000	1,200	12
13-02	PCU Secretary	10,800	10,000	800	12
13-03	PCU Translator	16,200	15,000	1,200	12
13-99	<u>Sub-Total</u>	43,200	40,000	3,200	<u>36</u>
16	Mission Costs/Travel				
16-01	Travel/Project Staff	53,740	44,900	3,700	
<u>16-99</u>	Sub-Total	48,600	44,900	3,700	
17	National Consultants				
17-01	Regional Experts	142,500	132,000	10,500	
<u>17-99</u>	Sub-Total	142,500	132,000	10,500	
19					
45	Component Total				
45	Equipment				
45-03	Project Office Running Costs	38,900	36,000	2,900	
45-04	National Coordination Support	43,200	40,000	3,200	
49		82,100	76,000	6,100	
	Sub-Total				
50					
F2	Miscellaneous				
52	Reporting				
52-01	National Stakeholder Workshops	16,200	15,000	1,200	
52-02	Project Steering Committee Meetings	27,000	25,000	2,000	
52-03	Donor Meetings	30,200	28,000	2,200	
59	Sub-Total	73,400	68,000	5,400	
99	GRAND TOTAL	595,000	550,900	44,100	44

Annex 3 – Institutional Arrangements/Terms of Reference

The Implementing Agency for this Project is the United Nations Development Program (UNDP). The Executing Agency for the Project shall be the United Nations Office of Project Services (UNOPS). These Implementing and Executing Agency responsibilities are the same as those that were decided upon for purposes of the GEF Pilot Phase Project for Lake Tanganyika, the results of which form the basis for this PDF-B and the expected SAP implementation project.

Work undertaken during the PDF-B will be coordinated by a Project Steering Committee (PSC). The PSC will be comprised of a representative from each of the participating countries, a representative of the Implementing Agency (UNDP), one member representing the Executing Agency (UNOPS), a representative of the AfDB, and such other representatives as may be agreed upon by the PSC. The project CTA shall serve on the PSC ex-officio.

The day-to-day responsibility for the conduct of the project shall be the responsibility of the CTA. The CTA will be accountable to the PSC and to the Implementing Agency for the successful implementation of the PDF-B. The project will be implemented through a Project Office, which is to be located in Tanzania. The rent and maintenance costs of the Project Office shall be the responsibility of the Host Country. The Project Office shall be comprised of the CTA, a Project Administrator, a Project Secretary, and Translator. The Project Office will be responsible for the production and distribution of project reports including the production of a Project Brief and Project Document acceptable to the PSC. The Project Office shall also be responsible for the day-to-day implementation of project activities including preparation for and the distribution of PSC meeting minutes.

A National Planning Office (NPO) in each of the four participating countries will serve the project. The exact location of each NPO shall be the responsibility of the participating country. Each participating country shall name a Lead Country Official for purposes of project liaison, and the Lead Country Official, whose responsibility will be to coordinate the country level work of the project and establish an effective working relationship with the other three Lead Country Officials and the Project CTA.

Annex 3 - Terms of Reference

Project Steering Committee (PSC)

Duration: One Year **Location:** Tanzania

Background:

The Project will have a Project Steering Committee comprised of one representative from each of the participating countries, one member from the Implementing Agency (UNDP), one member from the Executing Agency (UNOPS), one member from the AfDB, and such other members as may be deemed necessary by the PSC. The CTA will serve on the PSC in an ex-officio capacity. The PSC will assume oversight responsibility for the project and shall meet at least twice during project implementation and at other times at the call of the Chair, who shall be selected by the PSC representatives of the participating countries. More specifically the PSC shall:

- Provide overall strategic policy and management direction to the Project;
- Assist in identifying and allocating Project support for activities consistent with Project objectives;
- Annually review and assess the progress of the Project and its components;
- Annually review and approve the work plan and comment on the budgets of the Project and its activities, and provide strategic direction on the work plan;
- Provide guidance to the PCU in coordinating and managing the Project and its activities;
- Create mechanisms for interaction with the Private Sector, NGOs and other stakeholder
- · communities; and
- Continue to seek additional funding to support the outputs and activities of the project.

Project Coordination Unit (PCU)

Duration: One Year

Location: Tanzania

Background: The PCU will provide a coordination and management structure for the development and implementation of the PDF-B in accordance with the rules and procedures of GEF/UNDP and based on the overall policy direction provided by the Project Steering Committee (PSC).

Tasks:

Assistance in networking between and among project entities, national officials (Burundi, Democratic Republic of Congo, Tanzania, Zambia), Implementing Agency personnel (UNDP), cooperating partners such as the AfDB and other potential project partners and co-financers, and other related GEF projects;

Organization of technical cooperation activities between and among the National Planning Offices in the four participating countries for capacity-building, project related policy, management and donor activities;

Organization of project related consultative meetings for introducing and implementing program activities (including arrangements for such necessities as simultaneous translation and the production of documents in English and French);

Collection and dissemination of information on policy, economic, scientific and technical issues related to preparation of the Project Brief and Project Document;

Preparation of progress reports (administrative and financial) concerning program activities;

Preparation and arrangements for hosting Steering Committee and other meetings;

Establishment of and assistance in networking between specialized institutions in participating countries and technical specialists from elsewhere;

Program management (financial, logistical and strategic).

Chief Technical Advisor (CTA)

Duration: 1-Year Fixed Term

Date required: 1 April 2001 (Estimated)

Duty station: Tanzania with travel in the project region as deemed

necessary (Burundi, Democratic Republic of Congo, Tanzania, Zambia).

Project Purpose: The PDF-B grant which is the subject of this Project Document will be used to support an interim detailed planning and donor recruitment period over one year that is essential before SAP implementation can take place. The work of the PDF-B will cover two key areas:

Detailed project design for SAP implementation including sub-projects addressing major issues and priorities addressed in the TDA and the SAP, and negotiation for bilateral, multilateral, regional and national co-financing; and

The need to recruit additional donors to complement the funding that will be sought from the GEF.

The project design is very complex, as it covers several countries and will include the participatory design of many sub-projects, all of which will need to be detailed to such an extent that they can be stand-alone proposals for the purpose of leveraging. A major effort will be undertaken to leverage co-financing for the project proposals. The funding request of the GEF is matched by considerable co-financing.

Funding made available under the PDF-B will contribute to the running of the Lake Tanganyika Planning Support and Co-ordination Unit, a regional body with immediate responsibility for refinement of the existing SAP and the promotion of the Convention. The Unit, with staff recruited from within the region, will directly support national planning units in developing national project components of the SAP. The functioning of the Planning Unit will be overseen by a Project Steering Committee with strong regional presence.

General Responsibilities:

The CTA shall be responsible for the overall coordination of all aspects of PDF-B implementation. He/she shall liaise directly with designated officials of the Participating Countries, the Implementing Agency, the Executing Agency, UNDP Country Offices, existing and potential additional project donors, Senior Country Lead Officials, and others as deemed appropriate and necessary by the PSC or by the CTA him/her self. The budget and associated work plan will provide guidance on the day-to-day implementation of the approved Project Document and on the integration of the various donor funded parallel initiatives. He/she shall be responsible for delivery of all substantive, managerial and financial reports from and on behalf of the Project. He/she will provide overall supervision for all GEF staff in the Program Coordination Unit (PCU), as well as guiding and supervising all external policy relations.

Specific Duties

The CTA will have the following specific duties:

- to manage the GEF Components of the PCU, its staff, budget and imprest fund;
- to prepare a Work Plan of the year-long program on the basis of the Project Document, under the general supervision of the Project Steering Committee and in close consultation and coordination with Senior Country lead Officials, GEF Partners and relevant donors (e.g. AfDB, FAO);
- to coordinate and monitor the activities described in the work plan;
- to ensure consistency between the various program elements and related activities provided or funded by other donor organizations;
- to prepare and oversee the development of Terms of Reference for consultants and contractors;
- to coordinate and oversee the preparation of the substantive and operational reports including preparation of a Project Brief and project Document acceptable to the PSC;
- to foster and establish links with other related GEF programs and, where appropriate, with other relevant regional International Waters programs;
- to be a an ex-officio member of the PSC; and
- to submit quarterly reports of relevant project progress and problems to the PSC.

Qualifications:

- 1. post-graduate degree (preferably a Ph.D.) in Environmental Management, or a directly related field (e.g. fisheries management, natural resources economics, etc.);
- 2. demonstrated, successful, and senior level managerial experience in fields related to the assignment. Demonstrated diplomatic and negotiating skills;
- 3. familiarity with the goals and procedures of international organizations preferred, in particular those of the GEF and its partners (UNDP, UNEP, the World Bank, the African Development Bank, and current and future potential additional donors);
- 4. excellent English and French speaking and writing skills; and
- 5. previous work experience in one or more of the participating countries, and previous work experience in the region on issues related to the project very favorably considered.

Terms of Reference

Administrative Assistant

Duration: One-Year Fixed-Term Appointment

Location: Tanzania.

Date Required: April 1, 2001

General Description:

Under the supervision of the CTA, the Administrative Assistant will manage the day-to-day operations of the PCU, particularly with respect to technical services, staff support, and, with additional contractual support as necessary, assure that necessary financial, procurement (including importation, permits, etc.) and personnel matters are addressed. More specifically the Administrative Assistant shall:

- Prepare internal and external correspondence for the PCU, maintain files and assist in the preparation of documentation for meetings;
- Use the Internet and conduct research on availability of scientific, legal and technical information on topics related to the project implementation at all sites;
- Co-ordinate and assist in travel arrangements of the PCU staff and field project personnel;
- Prepare press releases, statements and speeches on the project activities;
- Undertake such other duties as may be assigned by the CTA.

Skills and Experience Required:

- 1. Higher education (secondary education or equivalent as experience can be considered).
- 2. Several years' experience of work in international organizations/agencies, governmental offices, research or training organizations.
- 3. Complete proficiency in English; good knowledge of both spoken and written French.
- 4. Fluency on computer and various software, Internet skills.
- 5. Reliability, initiative, a methodical approach and attention to detail.
- 6. Ability to work under general guidance or independently.
- 7. Willingness to work substantial periods of overtime at short notice.

Terms of Reference

PCU Secretary

Term: One-Year Contract

Location: Tanzania

General Job Description

The Secretary, working under the general supervision of the CTA and the day-to-day supervision of the Office Administrator, will have responsibility for a variety of tasks essential to maintaining the efficient operation of the PCU. These include communications tasks, assisting with travel arrangements and general secretarial duties. The post requires language abilities (English and French), experience with PCs, good communication skills, and a capacity for clearly discerning priorities under irregular work pressure. The incumbent will be required to keep regular working hours in order to ensure the proper staffing of the PCU.

Duties

1. Communication tasks

The incumbent will be responsible for the external communication of the PCU. This includes: (a) managing telephone, fax and electronic mail communication and the PCU address book; (b) updating the mailing lists; and (c) organizing outgoing official mail, particularly the mailing of all circulars, invitations to meetings and meeting reports.

2. Staff travel

The Secretary will organize staff travel in close cooperation with the appropriate personnel in the PCU and country officials. He/she will assist the staff and consultants with the advance planning of travel, investigating routes, connections and hotel arrangements. He/she will also assist project staff with the travel plans for external meetings. He/she shall organize hotel arrangements and program of activities for participants in meetings organized by the PCU.

3. General Secretarial Duties

The incumbent will be requested to assist with the maintenance of project files and the photocopying of specific documents. He/she will also prepare and type texts for the project staff where there is an urgent need and where the work plan permits.

Skills and Experience Required

- educational diploma in a directly relevant field;
- proven computer skills; and
- fluency in English and French.

Project Translator

Term: One-Year Fixed Term

Duty Station: Tanzania with travel throughout the region as necessary.

General Job Description: The project translator will be expected to serve as the principal translator at project meetings and in such other venues as may be determined by the Project CTA. The translator will also assist as needed in the translation of documents such as correspondence and reports.

Specific Duties:

Serve to assure that effective simultaneous translation is available at meetings of the PSC;

Assure that key documents that are distributed from the PCU are available in both English and French:

Assist in other translation services as required by the Project CTA.

Skills and Experience Required:

Demonstrated proficiency in spoken and written English and French, and demonstrated experience in the provision of professional translation services.

National Planning Offices

Duration: 1 Year

Location: One National Planning Office in each of the Participating Countries

Background:

The SAP identifies national project components (as described in Annex 1) within a regional framework. Through their formulation and support of the SAP and the Convention, the participating countries have affirmed their responsibility for implementing national project subcomponents. Consequently, there will be considerable national level activity during PDF-B implementation and a requisite level of national level organization to accomplish the necessary country based activities.

The Project will provide funds to support national workshops that will promote public involvement in the detailed design of national actions within the framework of the SAP. This will include further consultation with major groups, local communities, NGOs and the private and public sectors.

The Project will also provide funds to organise donor meetings in the participating countries. During execution of this PDF-B activity, preparation for the Full Project, and after its completion, financial sustainability, will be assured by the recruitment of donors additional to the AfDB, and the incorporation of collaboratively identified priorities into the national budgets of the participating countries. The AfDB has expressed strong interest in the fisheries component of the project and has already begun a collaborative working relationship with the UNDP-GEF, FAO and the participating countries on this project priority. The AfDB has also agreed to host the Donor Conference that is part of this PDF-B proposal. These activities will act as a national focus for donor and commercial project funding discussions. While all national staff and office costs will be met from national contributions, the Project will provide essential support for overall national co-ordination of the development of national project subcomponents.

Although planning mechanisms and protocols for negotiating with donors differ in each country, there are key agencies that will take a lead role in this process. In most cases national agencies already have a defined sectional-planning mandate, and the SAP identifies the key agency responsible for developing a particular national project sub-component. There will be no single national planning team, inter-ministerial project planning teams will form and change in response to the particular requirements for consultation of each project sub-component. At higher levels, the responsibility for coordinating these national project sub-components generally falls under a single planning authority and the negotiation of financial agreements lies with the treasury. It is anticipated that there will be regular meetings of national working groups to harmonise sectoral projects or project components.

Responsibilities

The National Planning Offices (NPOs) shall be responsible for the overall and day-to-day liaison with the PCU. The NPOs will coordinate the work of the various national agencies necessary to successful implementation of the PDF-B. While responsibility for the work of the NPOs will be that of the country designated lead official, the catalysts for the creation of the NPOs should be the respective country members of the PCU. NPOs will directly assist in project execution through the provision of services, advice and support in the areas of public consultation, the availability of data and information necessary to the further technical definition of TDA and SAP priorities, and assistance with regard to donor activities relevant to the project. Last, the NPOs shall be responsible for assuring the requisite amount of interministerial involvement in the activities of the project to maximize the likelihood of broad governmental buy-in and thus ensure project sustainability.

Annex 4 – Executive Summary of the Final Evaluation

POLLUTION CONTROL AND OTHER MEASURES TO PROTECT BIODIVERSITY IN LAKE TANGANYIKA PROJECT (RAF/92/G32)

Terminal Evaluation

SUMMARY

The project 'Pollution Control and Other Measures to Protect Biodiversity in Lake Tanganyika' (RAF/92/G32) initiated its activity in September 1995 and is scheduled to terminate in July 31, 2000. UNDP/GEF input into the project was \$ 10,000,000. UNOPS was the Executing Agency, and an NRI Consortium was responsible for its implementation.

The project's development objective was to demonstrate an effective regional approach to control pollution and prevent the loss of the exceptional diversity of Lake Tanganyika's international waters. For this purpose, the project should create a capacity in the four participating countries, namely Burundi, Democratic Republic of Congo, Tanzania and Zambia to manage the lake on a regional basis as a sound and sustainable environment.

The development goal was composed of six immediate objectives:

- Establish a regional long-term management program for pollution control, conservation and maintenance of biodiversity of Lake Tanganyika
- Formulation of regional framework for cooperative management of the lake environment
- Establish a program of environmental education and training for Lake Tanganyika and its basin
- Establish tested mechanisms for regional coordination in conservation management of Lake Tanganyika basin
- In order to produce a full Strategic Action Program for long-term application, some specific studies need to be undertaken. The special studies will also add to the understanding of the lake as a whole, and in some cases, provide the bseline and framework for long-term research and monitoring programmes
- Implementation and sustainability of the Strategic Actions Program

The project's implementation was delayed by shortage of qualified national staff, slow process of national institutions identification and by relatively low priority attached to the Lake's environment problems. The project perception by the government improved considerably after an Inception Workshop in March 1996. The quality of workshop and sense of working program ownership developed by the member countries created a momentum that helped in launching and then executing most of the project's program.

Execution of the whole program was disturbed by civil unrest in Burundi and RD Congo and, in consequence, by limited access to the lakeshore areas. In particular, the project could prepare but not put into practice the regional cooperation and the large scale environmental education campaign.

The fact that despite remarkable obstacles the project succeeded so well, is an outstanding achievement. The project realized the special studies. It prepared as well the Transboundary Diagnostic Analysis, the Strategic Action Program and drafted the Convention on the sustainable management of the Lake, all nationally driven and good quality documents.

UNOPS who executed the project was strongly supportive successfully helping to overcome the project's implementation and administrative difficulties. The UNDP/GEF helped the project in solving technical and organizational issues. The NRI provided experimented and dedicated staff and competent consultants. The Project achieved its objectives applying a participatory approach and building national consensus. The UNDP Offices of Burundi, Tanzania and Zambia followed attentively the project's progress and contributed to the Regional Steering Committee and Tripartite Review decisions. The supervision of the Steering Committee and Tripartite Review played an important role in validation of the work programs and evaluation of results. The national bodies: the National Steering Committees and National Working Groups were active as well, but they require revitalization.

In spite of the prevailing insecurity conditions and conflicts between the riparian states, representatives of all four countries worked well together in a spirit of collaboration and harmonization to achieve project objectives. Technicians from all four countries participated in technical workshops; technicians, resource managers and policy makers also worked together in regional TDA, SAP and Convention meetings.

What characterized the governments' involvement in the project activities was a steady increase in sharing the project's goals, and contributing to realization of the project's objectives.

The Project Management successfully responded to the changing environment.

As a result of review of the project's activities, the evaluation mission recommends:

Concerning the Immediate Objective I:

1. The Project Management should prepare a synthetic document actualizing the knowledge about Lake Tanganyika, indicating the remaining important studies to conduct, both to better understand the Lake's uniqueness and ways to protect it. Such a document will be of great value for future Lake Tanganyika management projects and for other countries of the region currently engaged in similar water protection activities. It will raise as well the Lake's visibility in the opinion of the public and decision makers of the riparian countries.

Since the present project could not fully involve the local people in the project activities

- 2. It is recommended to the governments that future research or applied research efforts aiming at Lake biodiversity protection involve the stakeholders as well, and their results contribute to solving specific practical problems.
- 3. It is further recommended that future Lake protection projects sponsored by GEF compare expected benefits from the financed research with the research costs.

Since the countries' citizens' perception of the environment protection projects is so important for their success

4. It is recommended that the UNDP/GEF projects incorporate into their working programs activities that will help them follow the project's perception in the eyes of the key stakeholders.

Due to the delays and work plan execution difficulties, the Strategic Action Program was drafted and finalized before the end of the specific studies. As a consequence, the technical (or scientific) justification of many of the envisaged actions is not as specific as it could be.

- 5. It is recommended that further editions of the Strategic Action Plan and the Transboundary Diagnostic Analysis use fully the results of the specific studies. It is also recommended that the final documents describing the results of the studies clearly indicate the link between the achieved results and national actions aimed at Lake protection.
- 6. It is recommended that the governments of the riparian countries maintain the SAP groups (or equivalent bodies) and charge them to promote the SAP implementation, and guide the country administration and private sectors investing in the SAP priorities.

Concerning the Immediate Objective II:

As the SAP, the Convention draft produced by the riparian countries delegates after extensive national consultations is a great project achievement. To assure its implementation it is recommended that

7. The Project Management jointly with the national governments install national interim bodies that will be responsible for facilitation of the Convention signature and ratification process.

The Convention will be binding for the riparian states. However, the Lake may be endangered by activities or events that occurs in other countries situated in the lake proximity.

8. It is recommended that the Convention addresses as well the threats to the Lake originating in non-riparian countries.

Concerning the Immediate Objective III:

Environmental education campaign necessary to the Lake's protection measures implementation requires technical capacity and financial means largely superior to those given to the project. By training the trainees and massively involving the national personnel in the studies and surveys, the project team, nevertheless, took the first step in environmental education.

- 9. It is recommended that the project describes the first results of the launched activities, evaluates their costs, and reports about the achieved impact in terms of improvement in fishing practices, sustainable land use and reduced deforestation.
- 10. It is recommended that the national institutions continue monitoring impact of the project's launched environmental education.
- 11. The government and donors should incorporate recommendations and lessons from the project's launched environmental education into other development activities in the Lake Tanganyika region. The expected benefits to Lake protection of the planned projects should be one of the criteria for their funding priority.
- 12. Future poverty alleviation projects for the people living in the Lake's surroundings should take into account the results of the special studies. Regional coordination of such future projects would be most beneficial both for the population and for the Lake.

Concerning the Immediate Objective IV:

Since the national involvement is crucial to the success of regional initiatives it is recommended

13. That the Project Management and National Coordinators facilitate the creation of national structures charged with implementing the Authority's decisions on the national level. These structures can act as a counterpart to the regional initiatives launched by the Authority, and transmit national preoccupations to the Authority.

According to the proposal included in the SAP, the project should be immediately succeeded by an interim structure called the Interim Lake Tanganyika Management Body. This structure should assure regional cooperation until the signature of the Convention and implementation of the Lake Authority. The Interim Body will facilitate the Convention signature and assist the countries in implementation of the Strategic Action Program priorities. The whole structure will be financed by donors. Close scrutiny of the proposed structure shows that there is no provision for a supervisory body, and it is not clear who will be national partner.

14. It is recommended that the Project before its termination, propose such a structure in the form of an Interim Regional Steering Committee as a supervisor and Interim National Coordinating Committees as national counterparts.

Concerning the Immediate Objective V:

The project has found that preservation of the Lake biodiversity status should go through sedimentation reduction and improvement of land management in the Lake's surrounded areas. This improvement requires national commitment and massive investment in education, training and input availability. The Project should largely disseminate the study results to catalyze such a commitment.

15. It is recommended that the Project Management, and after the project termination, the national institutions and concerned technical ministries assure the highest visibility of the results of the sedimentation reduction and land management studies and raise awareness of the countries' citizens and the authorities about the importance of these problems both for the Lake and for the well being of the rural populations.

Another danger to the Lake's biodiversity comes from the Lake pollution. The project studied the problem and identified the major pollution sources. However, the studies are not yet completed. The unfinished work concerns integration of the current knowledge about the Lake pollutants into the existing model of particle transportation in the Lake, and formulation of detailed pollution survey systems.

16. It is recommended that the Project Management identify the steps needed to implement an integrated pollution monitoring system. This integration means from one side integration of pollution monitoring with biodiversity and sedimentation monitoring, and from the other side creation of permanent links with law enforcement and awareness-raising national agencies

The biodiversity special studies described the present state of the Lake's biodiversity, advanced practical proposals concerning installation of protecting areas and created national capacity in biodiversity monitoring. The implementation of the biodiversity study findings is left to the national institutions and regional bodies charged with Lake Tanganyika biodiversity conservation.

17. It is recommended that the Project Management and National Coordinators identify the governmental structures that will be in charge of Lake biodiversity monitoring and creation of areas for the biodiversity and fish reproduction protection.

The special study concerning fishery produced some general information about fish exploitation in the Lake and fishing in the littoral zone, important for the biodiversity. It may be expected, that the final document will include more of specific and important managerial information.

18. It is recommended that the available data concerning fishing in the lake are analyzed from the standpoint of requirement of specific priority programs identified in the SAP. The Project Management may recommend to the national agencies to assure complementary or follow-up studies.

The socio-economic studies have shown once again that excessive fishing and inappropriate land exploitation are at the origin of threats to the Lake's biodiversity.

19. It is recommended that social studies aiming at reducing impact of human activity on the Lake's biodiversity are attached to any project dealing with sustainable management of the Lake and its catchment. The present project should identify the most appropriate institutions within the region that may continue to collect and analyze the information from all social and socio-economic studies.

Concerning the Immediate Objective VI:

It seems that there is one predominant, general conclusion stemming from the project's studies: the Lake's biodiversity is threatened principally by inappropriate human exploitation of the Lake itself and the land in the lake watershed.

20. It is therefore recommended that the project and national institutions that will assure the follow-up of the launched activities, closely collaborate with local administrations and existing poverty-alleviation programs

The project member countries should be fully informed about the actual state of knowledge about the Lake and be assured that they may easily access this information.

21. It is recommended that the Project Management and the National Coordinators assure the transfer of all information sources and databases to the countries.

Identification of areas needing further studies is one of the tasks of the special studies.

22. The project and its national partners should prepare an inventory of the research areas and prioritize them according to their importance to the Lake management, SAP implementation, and the Lake biodiversity understanding.

It is expected that in the final report the project will suggest creation of underwater parks and indicate their location.

23. It is recommended that the national authorities include these suggestions in the future version of the SAP.

Other Impacts

The awareness of Lake Tanganyika's unique biodiversity did not yet reach a satisfactory level. (Although it is higher, among populations having direct contact with the lake and among the citizens of countries such as Tanzania and Zambia that benefited from extensive awareness-raising campaigns.) The project did not evaluate the awareness level.

24. It is recommended that the national authorities evaluate the level of awareness of the concerned stakeholders. Such an evaluation will indicate the effort needed for awareness-raising, the stakeholders to address, and inform the authorities about the most appropriate tools.

The lives and economy of millions of people is intimately linked to the Lake. Most of them live in extreme poverty and are ignorant to the medium-term consequences of unsustainable land exploitation. Raising awareness of these citizens is an important humanitarian responsibility of the project's follow-up institutions.

25. It is recommended that the Project Management and the National Coordinators assure large visibility of the project's results that may have a short and medium -terms impact both on the countries' citizens' welfare and the Lake environment.

General Recommendation

The project indicated ways to achieve self-sustainable management and preservation of the Lake biodiversity. Probably, the most valuable contribution to the Lake Tanganyika biodiversity protection will be investment in a new generation of environmental projects that will put into practice the present project results in the frame designed by the Strategic Action Program and by the Convention.

26. It is therefore recommended to the Regional Steering Committee and governments of the riparian countries to identify donors susceptible to support the next phase of the Lake Tanganyika biodiversity protection projects. During this phase, that may correspond to the interim period between the present project termination and the Convention implementation, the projects may concentrate on such activities as:

- Promotion of the SAP integration in national development programs, and the Convention signature and ratification facilitation
- Assistance in formulating specific Lake protection projects in accordance with the SAP
- Test the importance of benefits generated by Lake protection activities
- Promote the Lake protection approach among donors for the riparian countries
- Disseminate the present project results among all stakeholders

Annex 5

Strategic Action Program (SAP) Priority Issues to be Addressed During SAP Implementation

1.1 Baseline Monitoring

- 58. The conclusions of the special studies include proposals for a critical baseline level of monitoring. This monitoring is considered to be necessary to determine patterns of change in the state of the environment and in the use of the lake resources that would guide future management interventions.
- 59. This monitoring will be supplemented by any additional monitoring or research considered necessary to guide and evaluate the impact of proposed activities implemented by the SAP. Specific monitoring or research linked to project activities is included as an action within that activity.

1.2 Development of a Sustainable Fisheries

- 60. The objective is to conserve/protect biodiversity, the mechanism is to develop a sustainable fisheries as well as direct protection interventions.
- 61. Fishing pressure is potentially detrimental through associated impacts of disturbance of habitat, as well as directly through species loss.

1.21 Reduction/Control of Fishing in Litoral Areas

- 62. A major increase in the number of fishermen has been observed throughout large parts of the lake shore. Many people are now exploiting the coastal waters which are the richest in biodiversity.
- 63. The problem is not easy to solve, insecurity restricts the areas in which fisheries officers can operate and their capacity is further constrained by lack of equipment, but some solutions are identified. The additional benefits would be in the creation of a more sustainable fishing.

1.22 Reduction/Control of Use of Beach Seines

64. Beach seines are widespread, although currently banned by law in both Tanzania and Zambia, and used in the coastal strip, rich in biodiversity. The method is not very selective, and is thought might cause additional benthic damage, and hence be prejudicial to a large number of species.

1.22.1 Limiting Fishing in Sensitive Areas

- 65. Sensitive areas include spawning grounds (usually seasonal) and key areas for biodiversity, these two categories overlapping in a large part. The problem is believed to be serious as in addition to inflicting high mortality on immature fish, it disturbs habitats that are often limited in extent and distribution, and with sensitive biodiversity.
- 66. The problem is not easy to solve, but solutions are identified and facilitated by the fact that they are relatively concentrated in space.

1.22.2 Limiting Excessive or Uncontrolled Extraction of Ornamental Fish

- 67. The problem is believed to be serious for biodiversity because the targeted species are endemic, rare, localised and hence vulnerable.
- 68. The problem is not very easy to solve, but exporters are specialised, few in number, identifiable; the problem can also be addressed through the end market.

69. A reasonable management of this exportable resource could provide sustainable economic benefits.

1.23 Pollution Control

1.23.1 Reduction/Control of Industrial pollution

- 70. The problem is considered to be serious in most of the countries. Despite the low development of industrialisation, limited to Tanesco in Kigoma, Kiliba and Kabimba in Congo and the industrial base in Burundi, the fact that the lake is effectively a closed system, the emission of non biodegradable pollutants will result in an accumulation process which could threaten the lake.
- 71. Solutions are identified and facilitated by the concentration of pollution sources.
- 72. Controlling the problem would allow for the preservation of water quality for domestic and industrial use, while also protecting the fishing industry. Particular benefits will go to the public health sector, while the recommended recycling of industrial waste provides also opportunity for economic savings.

1.23.2 Reduction/Control of pollution from urban waste

- 73. The problem is considered as relatively serious. Despite recent efforts in Bujumbura, domestic waste is a major and increasing source of organic and chemical pollution
- 74. Solutions are identified and interventions are facilitated by the concentration of those sources of pollution. They also receive political support as a result of their social and health benefits. Some sources, such as the Kigoma institutions, are very localised and hence easy to control.
- 75. Controlling the problem would improve water quality for the benefit of many direct users. The main impacts would be on public health, and since the most polluted areas are also those where the users are more numerous; in Bujumbura, benefits could be localised and immediate.

1.23.3 Reduction/Control of Harbour pollution

- 76. Harbours are identified as an important source of pollution, sometimes deliberate as waste is dumped into the lake (Mpulungu); pollution is however estimated to be less than that of factories and towns; precautions have already been taken (Bujumbura) or are envisaged (Mpulungu).
- 77. Actions are identified and will be facilitated by the concentration of those sources of pollution; some immediate actions are easy to undertake, although total eradication of the problem will be difficult as boat and harbour operators will not be willing to bear all additional costs.
- 78. Controlling the problem would allow for the preservation of water quality for its use (domestic or industrial) and for fishing.

1.23.4 Limiting pollution from future mining activities or oil exploitation

- 79. Very serious damage could result from those activities if no measure is taken (pollution from the mercury used by some gold washers, pollution from other heavy metal contained in ores, eutrophication from phosphates, pollution from hydrocarbons).
- 80. This potential problem is not easy to address, but preventive measures are identified (particularly by EIAs).

81. Controlling the problem would allow for the preservation of water quality for its direct use (domestic or industrial) and for fishing; controlling the usage of mercury by gold washers is a crucial issue in terms of public health.

1.23.5 Avoiding/Reducing major risks of marine accident

- 82. The problem is considered as serious because of the potential danger of an accident causing oil slicks or spillage of dangerous products (pesticides or others). As the lake has numerous endemic species limited to very confined habitats, there is a big risk that accidental pollution may cause irreversible extinction, even if the quality of water can restore itself. Although no major accident have yet occurred, the risk is ever present and increases with trade and development.
- 83. The risk cannot be eliminated, but progress is possible towards reducing of risks and planning better intervention in case of disaster.
- 84. Controlling the problem would allow for the preservation of water quality for its direct use (domestic or industrial) and for fishing; in addition, prevention of accidents favours directly transport activities and, indirectly, dependent economic sectors.

1.24 Sediment Management

The management of sediment through soil and water conservation brings benefits to farm and forestry systems while protecting the aquatic environment from the impacts of sediment.

1.24.1 Reduction/Control of Erosion from inappropriate farming practices

- 85. The problem is believed to be serious because the cumulative impact of poor agricultural practices forms the major erosion source, including those which release sediments into the fragile lake ecosystems.
- 86. The problem is not easy to solve, because of its scale, the large number of concerned farmers and the constraints they are confronted with. However technical solutions are well known and efforts are underway and intervention strategies are improving on the basis of previous experiences. Despite the scale of the problem, interventions can be concentrated according to the two criteria of agriculture viability and lake protection.
- 87. However there are major social and economic benefits from a sustainable agricultural development, reduced loss of fertility and associated reduced need for fertilisers.

1.24.2 Reduction/control of Deforestation

- 88. Deforestation, including diffuse deforestation, largely associated with agricultural expansion, is a primary cause of accelerated erosion. The problem is considered to be particularly serious in forest reserves gazetted as protection forests, on the basis of their catchment protection value. The problem covers agricultural clearing, woodland destruction through burning, wood exploitation (particularly for charcoal and, in Tanzania, for tobacco curing).
- 89. The problem is hard to solve, but multiple responses are known, and are locally implemented. A favourable social climate exists in at least in one part of the region and despite the scale of the problem, it is possible to focus efforts on the most critical areas.
- 90. A control of deforestation and actions in favour of agroforestry would lead to obvious benefits in terms of production of wood and other products, land conservation, water control and conservation of forest biodiversity (including regional endemic species).

1.25 Habitat Conservation

91. Part of the problem has been described under sediment, pollution and overfishing.

1.25.1 Protection of sensitive habitats

92. This include both the degradation of the supra littoral area (semi-flooded band of the lake) in Burundi, and risks threatening coastal wetlands including the large deltas (Ruzizi, Malagarazi) or the outlet (Lukuga). These play a role in the lake hydrology and the water quality and are also critical habitats for important elements of biodiversity. Taken together, the problem seems to be fairly difficult to solve, but actions are possible at the level of fragile zones correctly identified.