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Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area

(Bénin, Burkina Faso, Côte d'Ivoire, Ghana, Mali Togo)

Project Number: 53885

Inception Report

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Table of contents

List of abbreviations and acronyms	ii
Executive summary	iv
List of Tables	v
List of figures	v
1. Introduction	6
2. Activities conducted during the inception phase	8
3. Updating of project logframe, activities, work plan and budget	10
3.1 General considerations	10
3.2 Project objectives and expected outcomes	11
3.3 Updated project activities and work plan	13
3.4 Updated project budget and co-financing considerations	14
4. Updated Demo Projects	16
4.1 Demo Project 1	16
4.1.1 Demo Project 1: objective and expected outcomes	16
4.1.2 Demo Project 1: Expected results per specific objective	16
4.2 Demo Project 2	16
4.2.1 Demo Project 2: objective and expected outcomes	16
4.2.2 Demo Project 2: Expected results per specific objective	17
4.3 Demo Project 3	18
4.3.1 Demo Project 3: objective and expected outcomes	18
4.3.2 Demo Project 3: Expected results per specific objective	18
5. Ongoing/planned initiatives and linkage with the project	19
6. Institutional arrangements	22
6.1 Implementing agency	22
6.2 Executing Agency	22
6.3 Project steering committee	23
6.4 Project Management Unit (PMU)	23
6.5 Project Task Force (PTF)	24
6.6 National Project bodies: NFP and NIC	24
6.7 Status and role of the VBA	25
6.8 Role of other stakeholders and partners	25
7. Project Monitoring and Evaluation Plan	27
8. Annexes	28
8.1 Annex A: Revised Project Log-Frame	29
8.2 Annex B: Revised List of Activities and Work-Plan	40
8.3 Annex C: Revised Project Budget	45
8.4 Annex D: Updated logframe, activities, work plan and budget (Demo Projects)	51
8.5 Annex E: Project Monitoring and Evaluation Plan	70
8.6 Annex F: List of National Focal Points	81
8.7 Annex G: TOR of the National Operational Focal Point	82
8.8 Annex H: TOR of the Task Force	84
8.9 Annex I: MOU drafted for the collaboration/cooperation between UNEP and VBA	87

List of abbreviations and acronyms

Abbreviation	Definition
ADB	African Development Bank
AFD	Agence Française pour le Développement
AMMA	African Monsoon Multidisciplinary Analysis
APNP-VRB	Action Plan for the National Part of the VRB
APR	Annual Project Report
BFP	Basin Focal Project
BOD	Biological Oxygen Demand
CEO	Chief Executive Officer
CGIAR	Consultative Group on International Agricultural Research
COD	Chemical Oxygen Demand
DE	Direction de l'Environnement (Togo)
Demo Project	Demonstration Project
DGCN	Direction Générale de la Conservation de la Nature (Burkina Faso)
DGEA	Direction Générale de l'Eau et de l'Assainissement (Togo)
DGEau	Direction Générale de l'Eau (Bénin)
DGRE	Direction Générale des Ressources en Eau (Burkina Faso)
DNH	Direction Nationale de l'Hydraulique (Mali)
DP	Demonstration Project
DPEC	Direction des Politiques Environnementales et de la Coopération (Côte d'Ivoire)
DRE	Direction des Ressources en Eau (Côte d'Ivoire)
ECOWAS	Economic Community Of West African States
ECOWAS/WRCU	Economic Community Of West African States/Water Resources Coordination Unit
EPA	Environmental Protection Agency (Ghana)
EQO	Environmental Quality Objective
EQS	Environmental Quality Standard
GCLME	Guinea Current Large Marine Ecosystem
GEF	Global Environment Facility
GEFSEC	Secretariat of the Global Environment Facility
GLOWA	Globaler Wandel WAsserkreislaufes
GVP	GLOWA Volta Project
GWP	Global Water Partnership
HPR	Half-yearly Progress Report
HYCOS	Hydrological Cycle Observation System
HYP	Half Year Progress
ICARM	Integrated Coastal Area and River Basin Management
IRB	International River Basin
IRD	Institut de Recherche pour le Développement (France)
IUCN	International Union for Conservation of Nature and Natural Resources
IW	International Water
IWRM	Integrated Water Resources Management
LoU	Letter of Understanding
LTHE	Laboratoire d'étude des Transferts en Hydrologie et Environnement
M&E	Monitoring and Evaluation
MDGs	Millennium Development Goals
MEPN	Ministère de l'Environnement et la Protection de la Nature (Bénin)
MOU	Memorandum of Understanding
MTR	Mid Term Review
N	Nitrogen
NFP	National Focal Point
NGO	Non Governmental Organisation
NIC	National Implementation Committee
NIFP	National Institutional Focal Point
NOFP	National Operational Focal Point
OSS	Observatoire du Sahara et Sahel
P	Phosphorus
PAGEV	Projet d'Amélioration de la Gouvernance de l'Eau dans le Bassin de la Volta
PIR	Project Implementation Review

Abbreviation	Definition
PMU	Project Management Unit
PSC	Project Steering Committee
PTF	Project Task Force
RBO	River Basin Organisation
RCU	Regional Coordination Unit
SAP	Strategic Action Program
SIAAP	Syndicat Interdépartemental pour l'Assainissement de l'Agglomération de Paris
SIDA	Swedish International Development cooperation Agency
STP/CIGQE	Secrétariat Technique Permanent du Cadre Institutionnel de la Gestion des Questions Environnementales
TDA	Transboundary Diagnostic Analysis
ToR	Terms of References
TPR	Tri-Partite Review
UCC-Water	UNEP Collaborating Centre on Water and Environment
UEMOA	Union Economique et Monétaire de l'Afrique de l'Ouest
UNEP	United Nations Environment Program
UNEP/DGEF	United Nations Environment Program/ Division of GEF Coordination
UNEP/GEF	United Nations Environment Program/ Global Environment Facility
UNESCO	United Nations Educational, Scientific and Cultural Organisation
UNON	United Nations Office in Nairobi
UNOPS	United Nations Office for Project Services
VBTC	Volta Basin Technical Committee
VRB	Volta River Basin
WAWP	West Africa Water Partnership
WB	World Bank
WMO	World Meteorological Organisation
WRC	Water Resources Commission (Ghana)
WSSD	World Summit on Sustainable Development

Executive summary

The UNEP/GEF Volta River Basin Project for “*Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area*” is a regional initiative of six riparian countries in the basin, including Benin, Burkina Faso, Côte d’Ivoire, Ghana, Mali and Togo. The project which has been designed to facilitate the integrated management, sustainable development and protection of natural resources of the Volta River Basin plans to achieve its objectives by addressing priority regional transboundary issues and problems as identified through a preliminary transboundary diagnostic analysis earlier conducted on the basin. The project is expected to promote a more sectorally-coordinated management approach, based on Integrated Water Resource Management (IWRM) principles, both at the national and the regional levels, with a strong emphasis on an expanded role for all stakeholders.

During the inception phase, the Project Management Unit (PMU) was established at the premises of the Water Resources Commission (WRC – Accra, Ghana). PMU staff consists of a Regional Coordinator, a Science and Information Officer, an Administrative Assistant and a Project Bilingual Secretary. An inception mission was conducted in the riparian countries to collect additional information, identify collaboration opportunities, present and discuss with regional and national partners the initial findings at the inception phase, and share issues relating to the institutional framework for the project.

Following discussions with different partners, the initial project institutional framework has been reviewed to ensure effectiveness and efficiency of the project implementation, while taking into consideration the evolving realities overtime from the project design and its implementation. Consequently, the Project Steering Committee has been constituted and established and countries representatives accordingly nominated. Six regional experts have also been identified for consideration as members of the Project Task Force.

With the aim to take into account developments which occurred after the submission of the project to Global Environmental Facility (GEF)¹, the project’s specific objectives have been actualised in consultation with national and regional institutions, other stakeholders and UNEP/DGEF based on considerations detailed in Section 3.1. Proposed amendments are accordingly reflected in the revised logframe, activities, work plan, budget, demonstration projects, and monitoring & evaluation plan.

Of huge significance during the inception phase is the immense support received from all the project’s national and regional partners across the riparian countries, and the ongoing engagement with the representatives of regional institutions with initiatives across the basin. This trend of relationship and institutional strengthening is promoting positive circumstances for practical implementation of the proposed activities with partners and also creating the needed momentum for work on the transboundary dimension of the project.

This inception report provides information on initial activities undertaken and key achievements of the inception phase. It includes outcomes of the initial consultation with project partners, agreed and assigned roles and responsibilities, proposed work programme and timeframes as well as guidelines for partners to undertake agreed tasks for different project components. This report has been approved during the 1st Project Steering Committee Meeting in Bamako Mali from 13th to 15th May 2008.

¹ Establishment of VBA, Signature of Volta Basin Convention, Implementation of PAGEV Project, etc

List of Tables

Table 1 - Summary of key meetings of the inception mission	9
Table 2 – Summary of key expected outcomes	12
Table 3 – Summary of main activities par specific objective	13
Table 4a - Summary of Project Financing (US\$)	14
Table 4b - Summary of Project budget per object of expenditure (US\$)	15
Table 5 - Overview of Ongoing/planned initiatives and linkage with the project	20

List of figures

Figure 1 – Hydrographical network of the Volta River Basin	7
Figure 2 - General organizational flow chart of the overall project	26

1. Introduction

1. The UNEP/GEF Volta River Basin Project is a regional initiative which has been designed to facilitate the integrated management, sustainable development and protection of natural resources of the Volta River Basin within the six riparian countries: Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali and Togo. It is developed specifically to address priority regional transboundary issues and problems as identified through a preliminary Transboundary Diagnostic Analysis (TDA).
2. The Project has a primary focus on some of the major environmental problems and issues of the basin leading to the degradation of the environment by human activities. The initial long-term goal is to enhance the ability of the countries to plan and manage the Volta catchment areas on a sustainable basis.
3. In the PDF-B document three main components were defined based on associated objectives identified by the root causes analysis carried out during the project preparation process: (i) Build capacity and create a regional institutional framework for the effective management of the Volta Basin; (ii) Develop regional policy, legal and regulatory frameworks for addressing transboundary concerns in the Volta Basin and its downstream coastal areas; and (iii) Initiate national and regional measures to combat transboundary environmental degradation in the Volta Basin.
4. The project start up has been delayed and some activities are ongoing/planned through the support of co-funding agencies like IUCN, French GEF and ECOWAS/WRCU. During the Inception Phase a number of the specific project elements within its 3 components have been suggested for amendments.
5. This Inception Report has been approved during the 1st Project Steering Committee Meeting in Bamako Mali from 13th to 15th May 2008. It is the first report produced by the Project Management Unit and covers the following issues:
 - key activities conducted during the inception phase,
 - background information on general considerations explaining the proposed adjustments,
 - project logframe, and monitoring and evaluation plan
 - project activities, work plan and budget,
 - demonstration projects,
 - narrative on the institutional roles, responsibilities, activities and feedback mechanisms of project partners,
 - analysis of past, on-going and planned regional initiatives and their linkages with the project.

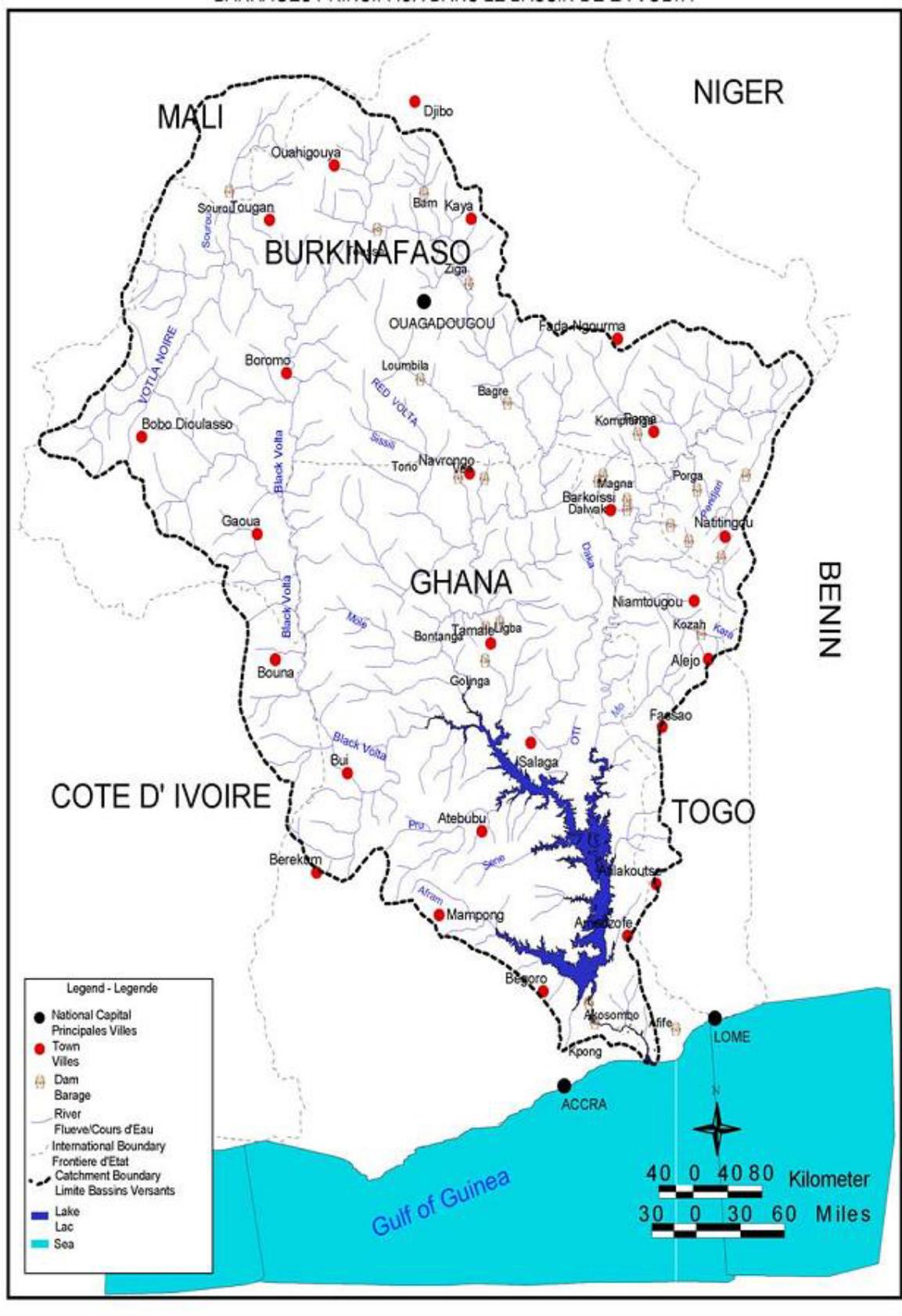


Figure 1 – Hydrographical network of the Volta River Basin

2. Activities conducted during the inception phase

6. Key achievements of the inception phase are: i-) setting up of administration and implementation mechanisms and ii-) analysis and updating of the project brief. More specifically:
 - Project management and coordination arrangements:
 - Project implementation started on November 23rd 2007 when the Regional coordinator was appointed. The PMU was established on 2nd January 2008 at the premises of the Water Resources Commission (WRC - Accra Ghana), as part of Ghana's co-financing to the project. The PMU staff consists of one Regional Coordinator (Mr. Hubert Onibon), one Scientific and Information Officer (Mr. Olumide Akinsola), and one Administrative Assistant (Mrs. Abigail Sackar) and one Project Bilingual Secretary (Mrs. Angelika Quaye).
 - The Steering Committee for the project has been established and National Focal Points (NFP) have been nominated by respective Governments (see Annex F)
 - Six regional experts have been selected and appointed as members of the Project Task Force (see Annex F-2)
 - Amendment of Project brief (logframe, activities, work plan, budget, etc.) in consultation with national and regional institutions, other stakeholders and UNEP/DGEF:
 - From November 23rd to December 19th 2007, the Regional Coordinator was on mission in Nairobi to discuss with UNEP and UNOPS, start the review of the project document and discuss administrative issues
 - In January and February 2008, an inception mission was conducted in the riparian countries to collect additional information, identify collaboration opportunities, present and discuss with regional and national partners the following (see details in Table 1): i-) the preliminary findings of the inception phase, ii-) issues relating to the project logframe, work plan, activities, and budget, iii-) institutional framework and iv-) collaboration opportunities
 - Audiences with high level authorities of riparian countries: Minister in charge of Environment, Water Resources and Forests (Côte d'Ivoire), Honourable Ahizi Aka Daniel, Minister in charge of Environment (Benin), Honourable Juliette Biaou Koudénoukpo, Minister of Mines, Energy and Water (Benin), Honourable Sacca Lafia, Minister in charge of Water (Togo), Honourable Damipi Noukpokou, Minister of Agriculture (Burkina Faso), Honourable Issaka Maiga, Minister of Environment and Sanitation (Mali), Honourable Aghatam Ag Alhassane and Deputy Minister in charge of Environment (Togo), Mr Ouro-Djeri Essowê, Executive Director of the Environment Protection Agency (Ghana), Mr. Allotey Jonathan, Director of Water, Ministry of Water Resources, Work and Housing (Ghana), Mr. Minta Aboagye.
 - The project document has been reviewed and the monitoring and evaluation plan prepared

Table 1 - Summary of key meetings of the inception mission

Institution	Meeting objectives/outcomes
VBA (Burkina Faso)	i-) clarifications on project specific objectives, expected results and activities, ii-) updating of project institutional framework, iii-) discussions on VBA role as main beneficiary of the project, iv-) discussions on the establishment of mechanism for ensuring project appropriation by the VBA and national partners (14 to 18 January 2008)
ECOWAS/WRCU (Burkina Faso)	i-) discussions on institutional arrangements and role of ECOWAS/WRCU as co-funding partner, ii-) review of ECOWAS/WRCU initiatives and identification of linkages with project activities - training of national institutions and awareness raising campaigns/advocacy- (15 January 2008)
Volta HYCOS Project (Burkina Faso)	review of Volta HYCOS activities and identification of linkages with project activities -hydrometeorological networks and data management, Volta Basin Observatory, DP1 and DP3 (15 January 2008)
UEMOA (Burkina Faso)	i-) presentation of GEF Volta project and, ii-) review of UEMOA initiatives and discussion on possible UEMOA support as new co-funding partner (15 January 2008)
IUCN/PAGEV (Burkina Faso)	i-) discussions on role of IUCN as co-funding partner and, ii-) review of PAGEV activities and identification of areas of collaboration -stakeholders' involvement- (15 January 2008)
GWP/WAWP- (Burkina Faso)	i-) presentation of GEF Volta project, ii-) review of WAWP initiatives and identification of linkages and collaboration opportunities with GEF Volta project at regional and national levels -stakeholders' involvement and communication strategy- (16 January 2008)
IRD (Mali)	i-) presentation of GEF Volta project, ii-) review of IRD Bamako research activities and identification of linkages and collaboration opportunities with GEF Volta project -Demonstration Project 1: hydrometric data and networks management, development of early warning system aiming to mitigate floods impacts, characterization of hydrological processes, etc.- (25 January 2008)
National Partners (Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali, Togo)	i-) key findings of the inception phase (review of project document), ii-) institutional arrangements, iii-) review of the Demo projects submitted by Mali and Burkina Faso, Côte d'Ivoire and Ghana, Togo and Benin, iv-) advocacy for the ratification of Volta Convention (January – February 2008)
ADB and OSS (Tunisia)	presentation of GEF-Volta Project and discussions on: institutional arrangements, link with VBA, additional fund requested, ADB support as co-funding partner, OSS support for the establishment of the Volta Basin Observatory (27 and 28 March 2008)
SIAAP and UNESCO (France)	i-) collection of additional information on sanitation situation in the City of Kara, ii-) identification of collaboration opportunity with SIAAP for the implementation of the Demo Project 2, iii-) discussion on UNESCO support for the implementation of Demo Project 1 and 2, development of training tools, development of Project on transboundary aquifer issues (Paris 31 March – 2 April 2008)

3. Updating of project logframe, activities, work plan and budget

3.1 General considerations

7. The main objective of the project revision is to actualize the project document by taking into account developments which occurred after the submission of the project to GEF: signature of the Volta Basin Convention, establishment of the Volta Basin Authority, implementation of IUCN/PAGEV Project, etc.

8. The proposed amendments described in this document are based on the following general considerations:

- **At Regional level:**

- **The project rests on two main pillars:** i-) support the riparian countries by providing management tools/instruments (including SAP and APNP-VRB) to address transboundary issues previously agreed (preliminary TDA) and, ii-) build the capacity of each country to use and implement these tools/instruments.

- The TDA/SAP process will bring all countries together to reach a common agreement on transboundary priorities (TDA) and agree on concrete actions and strategies to be implemented (SAP), in order to better manage the water and related natural resources of the Volta River Basin.

- The SAP and APNP-VRB will be developed in collaboration with the VBA to be integrated into the VBA work plan

- The TDA/SAP process will provide support and a concrete mechanism for the implementation of the Convention for the Volta basin (particularly related to transboundary environmental issues).

- The Convention for the Volta basin has been signed by all countries but is yet to enter into force. The Volta Basin Authority has been established but has as yet no long term strategy. The convention is focused on water resource issues and the VBA is composed of national water directorate representatives only

- The project will consist of representatives from both ministry of environment and ministry of water, thus ensuring that both water resources and environmental issues are addressed in the SAP and APNP-VRB process.

- The Project will complement, work directly and exchange lessons learned with IUCN and ECOWAS, French GEF, the Guinea Current Large Marine Ecosystem (GCLME) Project and other GEF IW Projects.

- Regional/national project database will be established and maintained including all data and information generated from project activities (TDA, SAP, APNP-VRB, etc.). Key gaps in data will be identified and national training packages will be developed and implemented.

- The project will support the feasibility study of the regional Volta Basin Observatory as well as thematic studies on water and related natural resources of the Basin

- Project results/activities will be widely disseminated to stakeholders through publications, website, newsletter, etc.

- 3 demonstration projects will be executed addressing key transboundary issues and resulting in measurable stress reduction at the demonstration sites. Lessons learned from the demonstration projects will be incorporated in the SAP/ APNP-VRB process and a plan for their replication will be developed and implemented.

- **At National level:**

- The APNP-VRB will be developed in collaboration with National authorities and VBA, and then incorporated into national strategies and plans

- To support the incorporation of transboundary elements into national IWRM processes for harmonisation of the sectoral plans, key inter-sectoral transboundary issues identified will be discussed with relevant sectors, national IWRM Committees and other stakeholders (industries, NGOs, decentralised communities, etc.) and a plan for harmonisation will be developed

- The project will identify and implement specific training packages (mainly for stakeholders and technical staff) that address key needs for the successful future implementation of the SAP and APNP-VRB
- Stakeholders' involvement plan will be developed and implemented to ensure all key stakeholders' participation in project activities
- The project will identify and implement at the national level specific training packages (i.e. for technical staff) that address data management and monitoring issues
- The development of six national Demo projects including their funding arrangements

3.2 Project objectives and expected outcomes

9. **Project's long-term goal:** equitable and sustainable management of water resources and other connected natural resources in the Volta River Basin and its downstream coastal area.
10. **The project's overall objective is to** enhance the ability of the riparian countries to plan and manage the Volta River Basin and its downstream coastal area (including aquatic resources and ecosystems) on a sustainable basis, by achieving sustainable capacity and establishing regional institutional frameworks for effective management; developing national and regional priorities; and effective legal, regulatory and institutional frameworks and management tools as a basis for action as well as initiating national and regional measures to achieve sustainable ecosystem management.
11. **The broad development objective** of this project is to address the perceived major transboundary problems and issues of the Volta Basin leading to the degradation of the environment as a result of human activities, by reducing those activities that lead to water scarcity, land and water degradation, and to integrate environmental concerns with present and future development of the basin. The broad development objectives are in line with the WWSD recommendations, national IWRM planning process, and national development and poverty reduction strategies.
12. To achieve the broad development objectives, three major components were proposed in the initial project document:
 - Component 1: Build capacity and create a regional institutional framework for the effective management of the Volta Basin
 - Component 2: Develop regional policy, legal and regulatory frameworks for addressing transboundary concerns in the Volta Basin and its downstream coastal areas; and
 - Component 3: Initiate national and regional measures to combat transboundary environmental degradation in the Volta Basin
13. Analysis of these major components shows that it is quite difficult to clearly dissociate their associated objectives, activities, and indicators. In respect to the overall project objective, it is suggested here to update the project design by considering 3 specific objectives with associated output, indicators, activities, work plan and budget:
 - Specific Objective n° 1: Build capacity, improve knowledge and enhance stakeholders' involvement to support the effective management of the VRB
 - Specific Objective n° 2: Develop river basin legal, regulatory and institutional frameworks and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area
 - Specific Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin
14. Based on general considerations highlighted below and Project's overall and specific objectives, **key expected outcomes** are presented in Table 2.
15. Expected results per specific objective, objectively verifiable indicators, sources of verification, assumptions and risks are presented in the updated project logical framework (Annex A).

Table 2 – Summary of key expected outcomes

Outcomes at Regional level	Outcomes at National level
Final TDA endorsed by the Project Steering committee	APNP-VRB finalised and endorsed at country level
SAP endorsed at ministerial level (Water and Environment Ministers)	Key inter-sectoral transboundary issues identified and plan for sectoral harmonisation developed with relevant sectors and agreed for inclusion in IWRM process
VBA integrates SAP into its work plan as part of mechanism for the implementation of the Volta Basin convention	National institutions have the capacity to implement the SAP and APNP-VRB
Ministries of environment and water resources are both involved in the preparation and implementation of SAP/ APNP-VRB	Involvement of stakeholder in SAP and APNP-VRB process and roles detailed in SAP and APNP-VRB documents
Project database developed and updated at regional and national levels	Institutions have the capacity to manage and monitor data in support of the implementation of SAP and APNP-VRB, and provide coordinated data transfer to VBA observatory
Feasibility study of the regional Volta Basin Observatory completed and approved by the VBA	Six national replicable demo projects prepared
At least 2 thematic studies carried out on water and related natural resources of the Volta River Basin	
All relevant stakeholders participate in project activities and have access to project reports, publications, database, etc.	
3 Demo projects executed resulting in stress reduction and analysed for their replicability	

3.3 Updated project activities and work plan

16. Required activities and proposed work plan for their implementation are presented in Annex B. Based on project objectives, outputs, expected outcomes and expected results per specific objectives, the main set of activities to be conducted during the project implementation are *summarised* in Table 3.

Table 3 – Summary of main activities per specific objective

Specific objectives	Main activities planned
<p>Specific Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB</p>	<ul style="list-style-type: none"> • Establish the project management structures at regional and national levels • Identify linkages and establish cooperation with relevant national and regional projects/initiatives, develop and implement collaboration plan • Identify training gaps and organise at national level, trainings on international river basins issues for personnel in the key institutions • Prepare and analyse the stakeholders matrix, develop and implement awareness raising modules on IRB • Develop stakeholders' involvement plan • Inventory and analysis of existing data • Develop and implement a mechanism for the circulation of the information at national and regional levels • Carry out study on the establishment of the Volta basin observatory • Develop hydrological and coastal hydrodynamic models of the Volta basin and its Downstream Coastal Area • Conduct thematic studies on relations between: i-) catchment areas and stream flow and, ii-) Volta basin and its Downstream Coastal Area, using ICARM concept • Develop and update on regular basis project database and website
<p>Specific Objective n° 2: Develop river basin legal, regulatory and institutional frameworks and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area</p>	<ul style="list-style-type: none"> • Gather national and regional documents, data and information and update the situation analysis • Review, update and complete the transboundary diagnostic analysis document • Prepare the Strategic Action Programme document including: implementation guideline, monitoring & evaluation system, long term financing strategy • Integrate the SAP into VBA work plan • Prepare the Action Plans for the National Parts of the VRB including: implementation guidelines, monitoring & evaluation system, long term financing strategy • Conduct a sector based assessment on key TDA issues outlining sectoral actions to be included in the APNP-VRB • Identify training gaps, develop training package and organise at national level, trainings on SAP/ APNP-VRB implementation
<p>Specific Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin</p>	<ul style="list-style-type: none"> • Review the 3 Demo project (logframe, activities, budget , M&E plan and work plan) • Implement the Demo project no 1: Joint management by Burkina Faso and Mali of a flow release warning system in the Sourou river valley (tributary of Black Volta River or Mouhoun) • Implement the Demo project no 2: Installing and comparing technological models of waste water treatment in the Cities of Kara (Togo) and Natitingou (Benin) • Implement the Demo project no 3: Restoring and protecting the river beds of the Black Volta River (Côte d'Ivoire & Ghana) and its tributaries through participative campaigns of reforestation • Evaluate the implementation of the 3 Demo projects, document lessons learned and incorporate them in SAP and APNP-VRB documents • Develop and incorporate in the SAP document, a plan for the replication of Demo projects and • Develop 6 national Demo projects based on TDA/SAP priorities

3.4 Updated project budget and co-financing considerations

17. The summary of updated GEF contribution to project budget is presented in Table 4b. A detailed budget in UNEP format is attached in Annex C. Additional funds are requested to fill the gap between the initial and updated budget. Co-financing amounts are presented in Table 4a.

Table 4a - Summary of Project co-financing (US\$)

Country/Partner	Cash (USD)	In-kind (USD)	Total (USD)
Benin	118 200	300 000	418 200
Burkina Faso	100 000	167 353	267 353
Côte d'Ivoire	183 000	732 000	915 000
Ghana	140 000	550 000	690 000
Mali	214 270	100 000	314 270
Togo	45 456	774 460	819 916
UNEP		60 000	60 000
Hungary	10 000		10 000
Czech Rep.	50 000		50 000
IUCN		620 000	620 000
ECOWAS/EU ²		1 962 500	1 962 500
SIAAP ³		471 000	471 000
IRD	To be confirmed		
Volta HYCOS	To be confirmed		
VBA/FEM France	To be confirmed		
Total	860 926	5 737 313	6 598 239

² 1,250,000 euros

³ 300,000 euros

Table 4b - Summary of Project budget per object of expenditure (US\$)

UNEP BUDGET LINE/OBJECT OF EXPENDITURE	BUDGET ALLOCATION BY PROJECT COMPONENT/ACTIVITY *				ALLOCATION BY CALENDAR YEAR **				
	1	2	3	Total	Year 1	Year 2	Year 3	Year 4	Total
	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
1 Project personnel component, including consultants, Administrative support, Volunteers and travels	836873	913673	672873	2423418	738020	520181	535373	629844	2423418
2 Sub-contract component, including MOA, MOU and LOA	135000	135000	763200	1033200	348030	228390	228390	228390	1033200
3 Training component including workshops, meetings, conferences	281173	458173	73173	812520	139000	301000	91000	281520	812520
4 Equipment and premises component	26700	22700	22700	72100	50850	10250	5750	5250	72100
5 Miscellaneous component, including: Operation and maintenance of equip., Reporting costs, Sundry, Evaluation	162040	259000	189000	610040	86010	175010	150010	199010	610040
TOTAL COSTS	1 441 786	1 788 546	1 720 946	4 951 278	1 361 910	1 234 831	1 010 523	1 344 014	4 951 278
Project Execution Costs -UNOPS (8%)	115 343	143 084	137 676	396 102	108 953	98 787	80 842	107 521	396 102
GRAND TOTAL COSTS	1 557 129	1 931 630	1 858 622	5 347 380	1 470 863	1 333 618	1 091 364	1 451 535	5 347 380

4. Updated Demo Projects

4.1 Demo Project 1

4.1.1 *Demo Project 1: objective and expected outcomes*

18. **Project's overall objective:** prevent/mitigate the risks of flooding in the Sourou catchment through a joint management system operated by the two riparian countries, Mali and Burkina Faso. As for the specific objectives and expected outcomes, the following amendments are suggested:

- Two Specific objectives:
 - Specific Objective n° 1: Improve the monitoring of hydrometric data, the characterization of hydrological processes and the management of Lery dam
 - Specific Objective n° 2: Develop a framework convention for the joint management of the Sourou river valley
- Three expected outcomes:
 - Hydrometric and rain gauge networks reinforced and optimized and relevant data collected, monitored and published on yearly basis
 - Tools to mitigate floods impacts and improve Sourou river valley management including Lery dam, developed and implemented
 - Convention for the joint management of the Sourou river valley prepared and signed by the two countries

4.1.2 *Demo Project 1: Expected results per specific objective*

- Outputs / Results corresponding to Specific Objective n° 1: Improve the monitoring of hydrometric data, the characterization of hydrological processes and the management of Lery dam
 - Demo project management established, including co-operation mechanisms with national institutions
 - Hydrometric and rain gauge networks of the Sourou river valley reinforced and data management and publication mechanisms strengthened
 - Characterization of hydrological processes and management of the Lery dam improved
- Outputs / Results corresponding to Specific Objective n° 2: Develop a framework convention for the joint management of the Sourou river valley
 - Convention for the joint management of the Sourou river valley developed and signed
 - Institutional framework for the implementation of the convention established

4.2 Demo Project 2

4.2.1 *Demo Project 2: objective and expected outcomes*

19. **Project's overall objective:** restore the water quality and improve the living and health conditions of the populations of Kara (Togo) and Natitingou (Benin) through the implementation of appropriate technology of wastewater treatment

- Two Specific objectives:
 - Specific Objective n° 1: Improve knowledge of local administration and other stakeholders on sanitation issues
 - Specific Objective n° 2: Equip the town of Kara with appropriate systems of collection and treatment plant for wastewater and other effluents and develop similar proposal for the city of Natitingou

- Three expected outcomes:
 - Reduction in N, P, BOD, COD etc. and untreated sludge in line with targets⁴
 - Sewage collection increased by at least 50%
 - Capacity of local stakeholders and national institutions in charge of sanitation infrastructure strengthened and population sensitised

4.2.2 Demo Project 2: Expected results per specific objective

- Outputs / Results corresponding to Specific Objective n° 1: Improve knowledge of local administration and other stakeholders on sanitation issues
 - Demo project management established, including co-operation mechanisms with national institutions and key stakeholders
 - Capacity of local stakeholders and national institutions for the promotion of good practices and behaviour favourable to the protection of water quality and the promotion of human health strengthened
 - Outputs / Results corresponding to Specific Objective n° 2: Equip the town of Kara with appropriate system of collection and treatment plant for wastewater and other effluents and develop similar proposal for the city of Natitingou
 - Appropriate systems of collection and treatment plants for wastewater and other effluents produced by inhabitants of Kara in place
 - Effects of a better sanitation system on water environment and population monitored
 - Proposal for the construction of wastewater treatment plant in the city of Natitingou prepared
 - Inhabitants of the two cities are sensitised on sanitation and related health issues
20. Several studies have been conducted on the sanitation situation in the city of Kara, the construction of wastewater networks and treatment plant. A pilot project funded by SIAAP (Syndicat Interdépartemental pour l'Assainissement de l'Agglomération de Paris) and aiming to construct experimental wastewater networks in 2 selected areas is about to start in Kara city. The main weakness of this project is that sewage will be discharged into the open without treatment. This is due to the lack of funding for the construction of the treatment plant and also the construction of the main network connecting the 2 pilot areas to the pond.
21. In the aim to harmonise and optimise their contribution, the Project Management Unit and SIAAP agree on the following:
- GEF-Volta Project will finance and coordinate the construction of one microphyte lagoon in the city of Kara
 - SIAAP will finance and coordinate the construction of wastewater network in one pilot area and its connection to the lagoon
 - GEF-Volta Project will prepare a methodology for the monitoring of water and wastewater quality including baseline situation and SIAAP will finance biological and chemical analyses (N, P, BOD, COD, etc.) accordingly.
22. For the city of Natitingou in Benin, the situation is more complicated: lack of proper situation analysis, baseline indicators, feasibility study and investment plan. Under these conditions, the construction of sewage treatment plant will not have good added-value to the restoration of water quality and the improvement of the living conditions of riparian populations. Based on that, the GEF-Volta Project will:
- facilitate the preparedness and signature of cooperation agreement between SIAAP and the

⁴ Statistics (baseline and targets) to be defined during the inception phase of the demonstration project

Municipality of Natitingou

- prepare the sanitation monograph of Natitingou
- identify pilot areas and conduct technical/feasibility studies for the construction of wastewater treatment plant in the city of Natitingou
- prepare detailed proposal for the construction of wastewater treatment plant in the city of Natitingou and submit the proposal to National partners and UNEP/DGEF for approval

4.3 Demo Project 3

4.3.1 Demo Project 3: objective and expected outcomes

23. **Project's overall objective:** sustainability of water resources in the Black Volta River basin (Côte d'Ivoire and Ghana) through participative campaigns of reforestation

- Two Specific objectives:
 - Specific Objective n° 1: Reinforce the capacity of stakeholders involved in forest and water resources issues
 - Specific Objective n° 2: Restoration/protection of pilot plots of land through experimental and demonstrative actions
- Five expected outcomes:
 - Sediment yield into selected rivers reduced by 20%
 - Water retention in the forest area increased by 25%
 - Forest landscapes of the pilot plots targeted by the project are restored and protected
 - Surfaces burned by bush fires in selected areas are reduced by 50%
 - Capacity of local stakeholder and national institutions in charge of forest and water resources management strengthened

4.3.2 Demo Project 3: Expected results per specific objective

- Outputs / Results corresponding to Specific Objective n° 1: Reinforce the capacity of stakeholders involved in forest and water resources issues
 - Demo project management established including project monitoring and evaluation plan
 - Capacity of national institutions in charge of forest and water resources management strengthened
 - Local stakeholders are conscious of forest and water resources issues and involved in their management/protection
 - Outputs / Results corresponding to Specific Objective n° 2: Restoration/protection of pilot plots of land through experimental and demonstrative actions
 - A limited number of hot spots of river beds restored
 - The forest landscapes of the pilot plots targeted by the project are restored/protected
 - The surfaces burned by bush fires in selected areas are reduced
24. Updated project logframe, activities, work plan and budget of the 3 Demo projects are presented in Annex D.
25. At the beginning of each Demo project, an inception report will be prepared in collaboration with key stakeholders (national institutions concerned, decentralised communities, NGOs and if necessary, Civil Society). It will include baseline situation analysis and detailed project document. The revised project briefs should include the following sections:
- Background and Justification
 - Objectives and expected outcomes
 - Activities
 - Work plan and Timetable
 - Implementation Arrangements

- Linkages with ongoing initiatives
 - Monitoring and Evaluation Plan
 - Financial aspects
 - Log-frame (annex)
26. During the implementation of the overall GEF Volta Project, six new national Demo Projects (including financial plan) will be developed based on TDA/SAP priorities and lessons learned from the implementation of the 3 Demo projects. The proposals will be prepared in collaboration with national stakeholders and discussed with UNEP/DGEF as well as regional partners. Project documents will be prepared following GEF Format and fundraising activities will be conducted under UNEP/DGEF umbrella.

5. Ongoing/planned initiatives and linkage with the project

27. During this inception phase, ongoing and planned initiatives have been reviewed and linkages with the GEF Project carried out. Those initiatives are focused on the following activities (see Table 5):
- Bring the Volta Basin Convention into force and establish the permanent organs of the VBA
 - Facilitate a diagnosis of the environmental conditions of the basin in order to develop priority actions to be implemented for a sustainable management and development of the basin
 - Establish a network of national hydrological observing systems that provides coherent quality information
 - Establishment of effective Decision Support System for water and land management
 - Contribute to the reduction of poverty, food insecurity and land degradation of the Volta basin through management of the land and water resources in a sustainable and equitable manner
 - Assist Burkina Faso and Ghana to agree on key water management principles and to establish a framework for collaboration in the management of their shared water resources in the Volta basin.
 - Strengthen the relationship between with National Focal Points and VBA.
28. In that regard, links have been established with the following UNEP/GEF Volta Project outputs:
- Appropriation of TDA , SAP and associated documents by VBA
 - Establishment of project database and VBA Observatory
 - Development and application of hydrological and hydrodynamic models
 - Training of national staff and awareness creation
 - Implementation of three Demo projects
 - Stakeholders' involvement
29. Negotiations are ongoing between VBA, UNEP/GEF and the implementing/executing agencies of those projects in the aim to establish cooperation/collaboration agreement. Most of those projects were initially supposed to be part of the UNEP/GEF project and donors considered as co-funding partners of GEF initiative. Indeed, due to the fact that the GEF project has been delayed for about four years, the co-funding agencies have decided to implement directly with the VBA some activities that were supposed to be co-funded in the initial GEF Project.

Table 5 - Overview of Ongoing/planned initiatives and linkage with the project

<i>Project Title</i>	<i>Objective</i>	<i>Status</i>	<i>Link with GEF Project</i>	<i>Donor/Implementing agency</i>
Consolidation of institutional arrangements	<ul style="list-style-type: none"> • Bring the Volta Basin Convention into force • Establish the permanent organs of the VBA • Appoint permanent staff for the VBA 	<ul style="list-style-type: none"> • VBA Convention signed by the riparian countries • Convention ratified by two countries out of six: Burkina Faso and Mali 	<ul style="list-style-type: none"> • Appropriation of TDA , SAP and associated documents 	SIDA/IUCN and ECOWAS/WRCU
Establishment of Volta Basin observatory for water and associated environmental resources	<ul style="list-style-type: none"> • Facilitate a diagnosis of the environmental conditions of the basin in order to develop priority actions to be implemented for a sustainable management and development of the basin 	<ul style="list-style-type: none"> • A Financial Agreement was signed between AFD and VBA and the project was expected to start in January 2008. • the starting is delayed due to the fact that VBA convention is not in force 	<ul style="list-style-type: none"> • Establishment of project database • Development and application of hydrological and hydrodynamic models • Thematic studies 	French SIDA/IUCN GEF,
EU Water initiative	<ul style="list-style-type: none"> • Contribute to the reduction of poverty, food insecurity and land degradation of the Volta basin through management of the water resources in a sustainable and equitable manner. 	<ul style="list-style-type: none"> • Project should have started in January 2008 but delayed as process of selection of consultant is still in progress. 	<ul style="list-style-type: none"> • Capacity building (Training) • Establishment of project database • Development of hydrological and hydrodynamic model • Capacity building 	EU/ ECOWAS/WRCU
Volta HYCOS	<ul style="list-style-type: none"> • Establish a network of national hydrological observing systems that provides coherent quality information 	<ul style="list-style-type: none"> • The project has collected some historic data and provided training to countries on equipment use and data handling. • Data collection by the countries is yet to start 	<ul style="list-style-type: none"> • Establishment of project database • Development and application of hydrological and hydrodynamic models • Thematic studies • Implementation of demo projects • Capacity building (Training) 	ADB, WMO
IUCN/PAGEV	<ul style="list-style-type: none"> • Assist Burkina Faso and Ghana to agree on key water management principles and to establish a framework for collaboration in the management of their shared water resources in the Volta basin. 	<ul style="list-style-type: none"> • IUCN/PAGEV signed a cooperation agreement with VBA in January 2007 and has supported the Authority in its basic operational activities. 	<ul style="list-style-type: none"> • Stakeholders' involvement • Establishment of project database • Development of legal, regulatory and institutional framework 	SIDA/IUCN
GLOWA Volta Project	<ul style="list-style-type: none"> • Establishment of a scientifically sound Decision Support System for water and land management 	<ul style="list-style-type: none"> • The GLOWA Volta Project (GVP) signed a MoU with the VBA in March 2007. 	<ul style="list-style-type: none"> • Establishment of project database • Thematic studies 	Germany

<i>Project Title</i>	<i>Objective</i>	<i>Status</i>	<i>Link with GEF Project</i>	<i>Donor/Implementing agency</i>
Awareness creation and involvement of stakeholders (Submitted to GTZ)	<ul style="list-style-type: none"> • Expanding partnership, relationships and arrangements; • Collaborating with National Focal Points to increase awareness of VBA and its activities. 	<ul style="list-style-type: none"> • Ongoing. Following preliminary talks with GTZ, a consultant will be recruited to assess proposed project 	<ul style="list-style-type: none"> • Stakeholders' involvement • Capacity building (Training) 	GTZ, SIDA/IUCN, ECOWAS/WRCU
CGIAR Challenge Program on Water and Food. Volta basin Coordination (including BFP-Volta project)	<ul style="list-style-type: none"> • Contribute more effectively to the delivery of development outcomes (through partnerships with development institutions such as policymakers and NGOs) • Produce more relevant and targeted scientific outputs for development • Foster a more effective and integrated process of collaboration in research 	<ul style="list-style-type: none"> • Last year of phase 1 (5years). Second (2009-2013) approved. 	<ul style="list-style-type: none"> • Establishment of project database • Capacity building (Training) • Thematic studies • Stakeholders' involvement • Development and application of hydrological and hydrodynamic models 	World Bank and Developed Countries

6. Institutional arrangements

30. The institutional framework proposed for the project implementation is simple and in line with the context of the Volta River Basin and within key principles of sustainable management of natural resources. Main components of the proposed institutional framework are (see organogram in Figure 2):

- VBA and VBA Council of Ministers which will be extended to include the Ministers in charge of Environment
- Project Implementing Agency: UNEP/DGEF
- Project Executing Agency: UNOPS, UCC
- Project Steering Committee (PSC)
- Project Management Unit (PMU)
- Project Task Force (PTF)
- National Focal Points (NFP)
- National Implementation committees (NIC).

6.1 Implementing agency

31. As implementing Agency, UNEP/DGEF will be responsible for overall project oversight supervision to ensure consistency with GEF and UNEP policies and procedures, and will provide guidance on linkages with related UNEP and GEF funded activities. UNEP also has a responsibility for regular liaison with Executing Agency on substantive and administrative matters, and for participating in meetings and workshops as appropriate.
32. UNEP/DGEF will provide assistance and advice to the Executing Agency on project management (e.g. revisions of work plan and budgets) and policy guidance in relation to GEF procedures, requirements and schedules.
33. UNEP/DGEF will be responsible for clearance and transmission of financial and progress reports to the Global Environment Facility.
34. UNEP/DGEF will be responsible for review and approval of all the substantive reports produced in accordance with the schedule of work.

6.2 Executing Agency

35. The United Nations Office for Project Services (UNOPS) will serve as the Executing Agency for the project to ensure execution of administrative and financial matters. As Executing Agency UNOPS will have administrative responsibility for the management and the financial administration of the GEF funds.
36. The UNOPS services can be summarized as follows:
- Recruitment and management of international and local project staff (PMU staff).
 - Financial Control and management of project budget and expenditures
 - Timely production of financial and progress reports to UNEP/DGEF
 - Management of sub-contracts
 - Arrangement of training component
 - Procurement of equipment
 - Periodic reporting to UNEP/DGEF as required
37. The UNOPS staffed Project Management Unit (PMU) will be responsible for monitoring and reporting of co-financing and any cash or in-kind contributions. The PMU will explore opportunities for involving the World Bank (WB) and/or the African Development Bank, African Water Facility and potential investment opportunities will be explored during project

implementation to have a partner for follow up investments for on-the-ground activities.

38. UNEP Collaborating Centre on Water and Environment (UCC-Water and Environment) will assist the PMU in key technical and scientific issues.
39. **UNEP Collaborating Centre on Water (UCC Water)** will be contracted by UNOPS to facilitate a smooth and timely execution of the project by drawing upon the experience of the Centre related to project preparation and implementation from similar projects in the region as well as gaining access to the network of specialists associated to the Centre.
40. UCC Water and Environment will support and work through the Project Management Unit (PMU). The assistance of the Centre will address technical and scientific aspects of the project (if requested) and support the Project Management Unit (PMU). Further, the Collaborating Centre will identify and propose short-term inputs on specific technical subjects.

6.3 Project steering committee

41. A Project Steering Committee (PSC) is to be established to guide the overall project process. The Steering Committee will be composed of:
 - Two National Institutional Focal Points (NIFP) per country who are nominated by the responsible ministries in each participating country for this GEF Project:
 - One representative of the ministry in charge of environment
 - One representative of the ministry in charge of water resources and preferably the VBA national focal point
 - The Executive Director of VBA or his representative
 - Representatives from the Implementing agency (UNEP/GEF) and the executing agency, (UNOPS) and UCC-Water and Environment
42. Representatives from GCLME, GEF Niger Project, UNESCO/PHI, ECOWAS/WRCU and IUCN, regional or local NGOs and the private sector will be invited as observers at the PSC Meetings when necessary.
43. The Regional Project Coordinator will serve as the Secretary to the Steering Committee.
44. The PSC will be chaired by a national representative on a rotational basis. The PSC will meet annually to monitor past progress in project execution, and to review and approve annual work plans and budgets.
45. The mandate of the PSC will include among others the following:
 - review and approve annual rolling work plans and budgets, and provide strategic direction on the work plan,
 - discuss and endorse management reports: inception report, progress reports, annual reports, completion report and other important reports,
 - review and approve the TDA and SAP documents.
46. The steering committee shall develop its own internal rules and procedures in the performance of its activities

6.4 Project Management Unit (PMU)

47. A Project Management Unit (PMU) headed by a Regional Project Coordinator on UNOPS contract has been established. The Regional Project Coordinator is assisted by 3 full-time key staff on UNOPS contract and composed of:
 - One Science and Information Officer with direct responsibility for information collection, exchange and networking between a wide range of participants in the Volta River basin project including government officials, scientists, non-governmental organizations and the public at large.
 - One Administrative Assistant who will manage the day-to-day operations of the PMU, particularly with respect to finances, technical services, procurement and personnel matters (in close

cooperation with the counterpart staff of UNOPS Nairobi).

- One Bilingual Secretary who will have responsibility for a variety of tasks essential to maintaining the efficient operation of the PMU. These include communications tasks, administrative functions, assisting with travel arrangements, meetings preparation and general secretarial duties.
48. In accordance with the project document endorsed by the six riparian countries and approved by GEF, the PMU is hosted by the Government of Ghana as part of its contribution to the project. According to the project document, the PMU is independent of the host country. It will work closely with VBA and ECOWAS/WRCU as well as national partners to help develop capacity.
49. The PMU will be responsible for the overall implementation of the project including stakeholder outreach, overseeing and assisting the National Focal Points and National Implementation Committees (NIC) and managing international consultants and contractors.

6.5 Project Task Force (PTF)

50. In addition to the PMU staff, a **Task Force** is being established to support the PMU on technical issues such as (the detailed TOR of the Task Force is presented in Annex H):
- Preparing of TDA, SAP, APNP-VRB and associated documents
 - Review of consultancies TOR and reports
 - Review of training and awareness raising campaigns modules
 - Provide technical and scientific advice
51. The Task Force will be a group of 6 experts having strong experiences in the fields of:
- Water resources management
 - Forestry/Biodiversity
 - Environment
 - Land management and desertification
 - Agronomy and Economy
 - Sociology and participatory approaches

6.6 National Project bodies: NFP and NIC

52. At national level, the institutional framework proposed is as follows:
- National Focal Point (NFP)
 - National Implementation committee (NIC)
53. The **National Focal Point (NFP)** is in charge of the project implementation at country level. One of the two National Institutional Focal Points will be nominated by the country as **National Project Coordinator**.
54. In addition to the 2nd National Institutional Focal Point, the National Project Coordinator will be assisted by one **National Operational Focal Point (NOFP)** who will be a full-time staff appointed by the country. In each participating country, the NOFP will support the National Project Coordinator to manage on a day-to-day basis the proposed activities at the country level (see TOR in Annex G)
55. A **National Implementation Committee (NIC)** chaired by the National Project Coordinator will also be established to guide project implementation at the national level and ensure intersectoral coordination as a step towards sustainability. Through the establishment of intersectoral dialogue, it is anticipated that wide involvement of many national/regional educational, research, governmental and non-governmental agencies and organizations, and other stakeholders will be assured. This will result in high-level government acceptance of the outcomes of the preparatory activities and hence approval of the APNP-VRB.

6.7 Status and role of the VBA

56. Since one of the key objectives of the project is to support the VBA to develop and implement management tools at the basin level, the VBA will be involved at each step of the project implementation. The VBA will:

- function as policy guidance body and provide strategic orientation for the Project
- provide guidance to the PMU on issues pertaining to the VBA mandate and linkages with other ongoing and planned projects and programs in the basin
- facilitate project coordination and ensure that project activities meet global, regional and national water and associated resources concerns and priorities
- support the process of endorsement of all key project documents, particularly the SAP and APNP-VRB.
- facilitate the linkage between the project and VBA Council of Ministers extended to the Ministers in charge of Environment.

6.8 Role of other stakeholders and partners

57. The development of stakeholders' involvement plan is one of the main activities planned for the first 2 quarters of the project implementation. Nevertheless, one can notice that the PMU will work in collaboration and receive support from the following partners:

- IUCN: training of national partners on international river basins management, awareness raising campaigns and stakeholders' involvement plan, training of national partners on TDA/SAP process
- ECOWAS: data management and capacity building of national partners
- UNESCO: development of training tools, development of hydrological and coastal hydrodynamic models and associated thematic studies, scientific support for the implementation of Demo projects, development of project document (PDF-A) on transboundary aquifers management
- GEF-Niger Project, GEF-Senegal Project and GCLME: capacity building, establishment of Volta Basin Observatory, sector based assessment on key TDA issues and outlining sectoral actions to be included in the APNP-VRB
- Volta HYCOS: Installation/rehabilitation of hydrometric and rain gauge stations, management of hydrometric and precipitation data, establishment of Volta Basin Observatory
- SIAAP: implementation of Demo project 2.

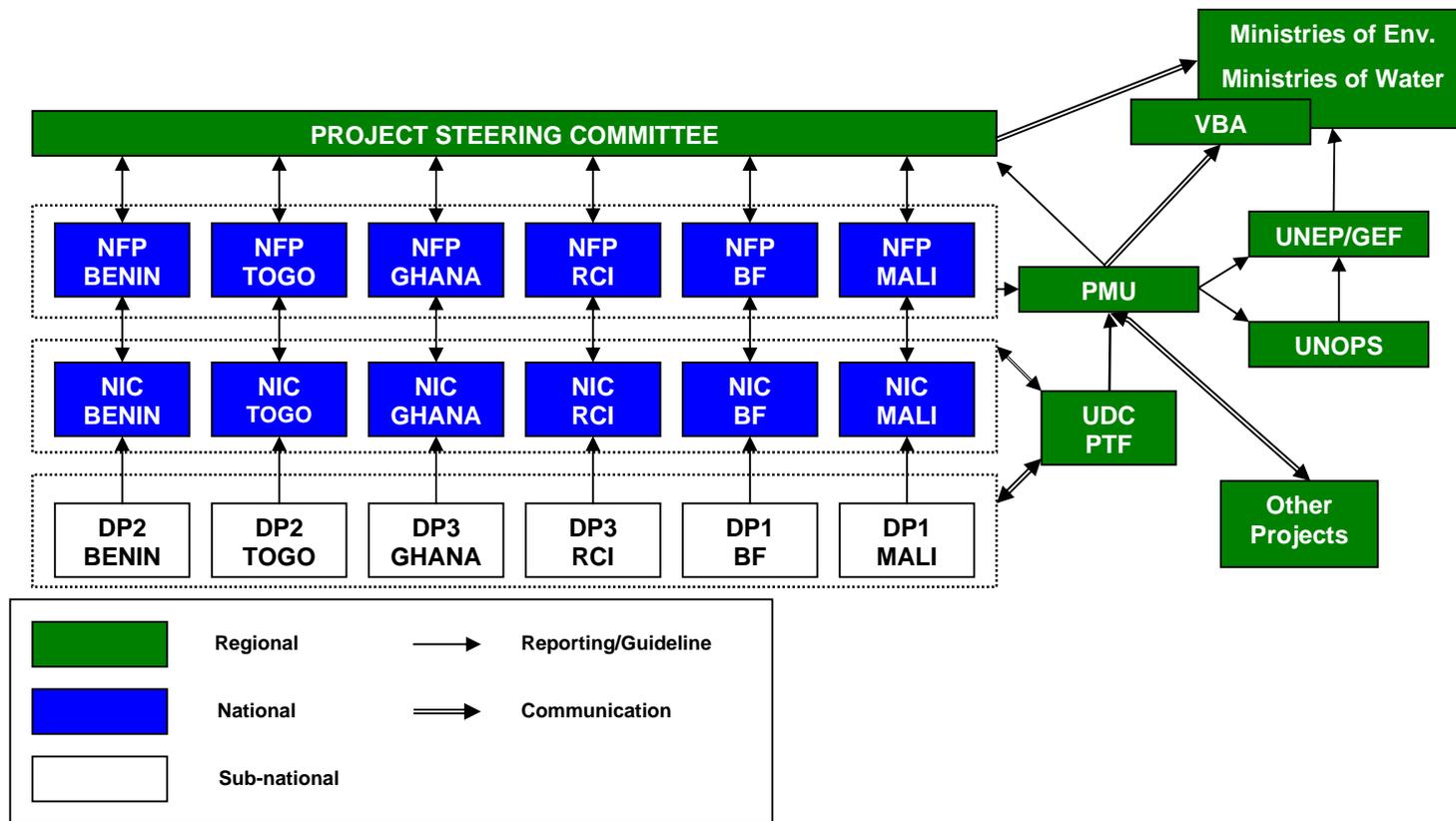


Figure 2 - General organizational flow chart of the overall project

7. Project Monitoring and Evaluation Plan

58. The Monitoring & Evaluation plan for the full project needs considerable attention, and appropriate baselines and indicators need therefore to be developed.
59. In accordance with UNEP/GEF rules and standards, and based on the verifiable indicators identified in the logical framework, a detailed project monitoring and evaluation plan has been drafted. It's focused on the following points (see Annex E for details):
- Monitoring Responsibilities and Events
 - Project Monitoring Reporting
 - Independent evaluation
 - Key process, stress and environmental indicators

8. Annexes

8.1 Annex A: Revised Project Log-Frame

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
<p>Long-term objective (new formulation): Equitable and sustainable management of water resources and other connected natural resources in the Volta River Basin and its downstream coastal area</p>	<ul style="list-style-type: none"> • Increased access to water • Reduced land base pollution • Reduced land degradation • Reduced ecosystems degradation • Reduced loss of biodiversity 			<ul style="list-style-type: none"> • In line with MDGs and WSSD Targets and with the aspirations of the riparian countries and ECOWAS
<p>Project's overall objective: Enhance the ability of the riparian countries to plan and manage the Volta River Basin and its downstream coastal area (including aquatic resources and ecosystems) on a sustainable basis, by achieving sustainable capacity and establishing a regional institutional frameworks for effective management; developing national and regional priorities; and effective legal, regulatory and institutional frameworks and management tools as a basis for action as well as initiating national and regional measures to achieve sustainable ecosystem management</p>	<p>Regional level:</p> <ul style="list-style-type: none"> • Final TDA endorsed by the Project Steering Committee by end of year 2 • Final SAP endorsed at ministerial level (Water and Environment Ministers) by end of year 4 • VBA adopt SAP into their work plan as mechanism for the implementation of the convention by end of year 4 	<ul style="list-style-type: none"> • TDA published and broadly disseminated • Workshop reports • SAP endorsement letters • SAP published and broadly disseminated • PMU, Task force and PSC meeting reports • VBA and PMU reports 	<ul style="list-style-type: none"> • Riparian countries or RBO failing to participate fully and actively to ensure project success. • RBO and Countries will have the ability to implement management plans and realize strategies. • Adequate funding for plans and strategies. 	<ul style="list-style-type: none"> • The aim of the project is to support the countries by providing management tools/instruments (including SAP and APNP-VRB) to address transboundary issues previously agreed (preliminary TDA) and to build the capacity of each country to use and implement these tools/instruments • The TDA/SAP process will bring all countries together to reach common agreement on transboundary priorities (TDA) and agree on concrete actions and strategies to be implemented (SAP), in order to commonly manage the water and related natural resources of the Volta River Basin • The SAP and APNP-VRB will be developed in collaboration with the VBA and assuming their long term continuity will be incorporated into the VBA work plan • The TDA/SAP process will provide support and a concrete mechanism for the implementation of the Convention for the Volta basin (particularly related to transboundary environmental issues)

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
	<ul style="list-style-type: none"> Ministries of environment and water resources are both represented in the Project Steering Committee by year 1 	<ul style="list-style-type: none"> Acts of PSC members nomination Minutes of PSC meetings PMU reports 	<ul style="list-style-type: none"> Willingness of national governments to integrate both water resources and environmental issues in the SAP and APNP-VRB process 	<ul style="list-style-type: none"> The Convention for the Volta basin has been signed by all countries but has not entered into force. The Volta Basin Authority has been established but has no long term strategy or work plan yet. The convention is focused on water resource issues and the VBA is composed of national water directorate representatives only The project will consist of representatives from both ministry of environment and ministry of water, thus ensuring that both water resources and environmental issues are addressed in the SAP and APNP-VRB process
	<ul style="list-style-type: none"> Project database developed by year 1 and updated at regional and national levels 	<ul style="list-style-type: none"> Project database 	<ul style="list-style-type: none"> Willingness of riparian countries to share national data 	<ul style="list-style-type: none"> Regional/national project database will be established and maintained including all data and information generated from project activities (TDA, SAP, APNP-VRB, etc.). Key gaps in data will be identified and national trainings packages will be developed and implemented.
	<ul style="list-style-type: none"> Feasibility study of the regional Volta Basin Observatory completed and approved by the VBA by end of year 3 	<ul style="list-style-type: none"> Project and VBA reports 	<ul style="list-style-type: none"> Willingness of VBA to establish the observatory of the basin 	<ul style="list-style-type: none"> The project will support the feasibility study of the regional Volta Basin Observatory as well as thematic studies on water and related natural resources of the Basin
	<ul style="list-style-type: none"> At least 2 thematic studies carried out on water and related natural resources of the Volta River Basin by year 3 	<ul style="list-style-type: none"> Technical and thematic reports PMU reports 	<ul style="list-style-type: none"> Lack or difficult access to reliable data and information 	
	<ul style="list-style-type: none"> All relevant stakeholders participate in project activities and have access to project reports, publications, database, etc. 	<ul style="list-style-type: none"> Project website, publications and reports 	<ul style="list-style-type: none"> Project capacity to adequately support the needed national and regional coordination and communication frameworks 	<ul style="list-style-type: none"> Project results/activities will be widely disseminated to stakeholders through publications, website, newsletter, etc.

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
	<ul style="list-style-type: none"> • 3 Demo projects executed resulting in stress reduction (see demo logframe) and analysed for their replicability by year 4 	<ul style="list-style-type: none"> • PMU, NFP, NIC, and Task Force reports • SAP/APNP-VRB documents 	<ul style="list-style-type: none"> • Demo projects sites selected through criteria that maximises clear understanding of transboundary land and water degradation problems • Willingness of key stakeholders to participate in Demo projects 	<ul style="list-style-type: none"> • 3 Demo projects will be executed addressing key transboundary issues and resulting in measurable stress reduction at the demonstration sites. Lessons learned from the Demo project will be incorporated in the SAP/APNP-VRB process and a plan for the replication will be developed and implemented.
National level:				
	<ul style="list-style-type: none"> • APNP-VRB finalised and endorsed at country level by end of year 4 	<ul style="list-style-type: none"> • APNP-VRB published and broadly disseminated • PMU, Task Force, NFP and NIC reports • Minutes of meetings 	<ul style="list-style-type: none"> • Riparian countries or RBO failing to participate fully and actively to ensure project success. • RBO and Countries will have the ability to implement management plans and realize strategies. • Adequate funding for plans and strategies. 	<ul style="list-style-type: none"> • The APNP-VRB will be developed in collaboration with National authorities and VBA to be incorporated into national strategies and plans
	<ul style="list-style-type: none"> • Key inter-sectoral transboundary issues identified and plan for sectoral harmonisation developed with relevant sectors and agreed for inclusion in IWRM process by year 4 	<ul style="list-style-type: none"> • PMU, Task Force, NFP and NIC reports • Minutes of meetings • National IWRM reports 		<ul style="list-style-type: none"> • To ensure transboundary elements are incorporated into the national IWRM process for harmonisation of the sectoral plans, key inter-sectoral transboundary issues identified will be discussed with relevant sectors, IWRM team and other stakeholders (industries, NGOs, decentralised communities, etc.) and a plan for harmonisation will be agreed
	<ul style="list-style-type: none"> • National institutions have the capacity to implement the SAP and APNP-VRB 	<ul style="list-style-type: none"> • PMU, Task Force, NFP and NIC reports • Training packages • Training reports 	<ul style="list-style-type: none"> • Willingness of national authorities to have the ability to implement management plans and strategies. 	<ul style="list-style-type: none"> • The project will identify and implement specific training packages at the national level (mainly for stakeholders and technical staff) that address key needs for the successful future implementation of the SAP and APNP-VRB

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
	<ul style="list-style-type: none"> • Involvement of stakeholders in SAP and APNP-VRB process and roles detailed in SAP and APNP-VRB documents 	<ul style="list-style-type: none"> • PMU, NFP, NIC and Task Force reports • Stakeholder groups 	<ul style="list-style-type: none"> • Willingness of key stakeholders to participate in Demo projects 	<ul style="list-style-type: none"> • Stakeholders' involvement plan will be developed and implemented ensuring all key stakeholders' participation in project activities
	<ul style="list-style-type: none"> • Institutions have the capacity to manage and monitor data in support of the implementation of SAP and APNP-VRB, and provide coordinated data transfer to VBA observatory 	<ul style="list-style-type: none"> • PMU, Task force , NFP and NIC reports • Training packages/reports 	<ul style="list-style-type: none"> • Willingness of national institutions to improve their data management and monitoring capacities 	<ul style="list-style-type: none"> • The project will identify and implement specific training packages at the national and regional level (i.e. technical staff) that address data management and monitoring issues
	<ul style="list-style-type: none"> • Six national Demo projects including their funding arrangements developed by year 4 	<ul style="list-style-type: none"> • PMU, Task force , NFP and NIC reports • Projects briefs 	<ul style="list-style-type: none"> • Capacity of riparian countries to prepare suitable project document 	<ul style="list-style-type: none"> • The project will support the development of six national Demo projects including their funding arrangements

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
1.1 Project management and co-ordination established, including project monitoring and evaluation plan and co-operation mechanisms with other relevant projects/initiatives	Project management bodies established and functional by year 1: <ul style="list-style-type: none"> • Project Management Unit • Project Task Force • National Focal Points • Project Steering Committee (Ministries of environment and water resources are both represented in the PSC) • National Implementation Committees (key ministries and other stakeholders are represented) 	<ul style="list-style-type: none"> • Executing agencies reports • Contracts signed by personnel • Acts of nomination • PMU reports • Minutes of meetings • Other documents produced by the project 	<ul style="list-style-type: none"> • Riparian countries failing to participate fully and actively to ensure project success. • GEF funds not adequately complemented by other donors and by country commitments • Clear line of responsibility will ensure project implementation • Willingness to commit physical space and other resources by host nation for PMU 	<ul style="list-style-type: none"> • To avoid confusion with existing RCU (mainly the ECOWAS one), it's suggested here to replace project RCU by PMU
	<ul style="list-style-type: none"> • LOUs on project implementation signed with riparian countries by year 1 	<ul style="list-style-type: none"> • Signed LOUs 	<ul style="list-style-type: none"> • Willingness of national governments to provide space for NIC activities 	
	<ul style="list-style-type: none"> • Project monitoring & evaluation plan finalised, including projects indicators (process + stress reduction) by year 1 	<ul style="list-style-type: none"> • Monitoring & Evaluation plan 	<ul style="list-style-type: none"> • Project capacity to adequately develop and implement the M&E plan 	
	<ul style="list-style-type: none"> • Project M & E plan implemented and indicators monitored 	<ul style="list-style-type: none"> • Monitoring & Evaluation reports 		
	<ul style="list-style-type: none"> • Analysis of all relevant national and regional projects and initiatives conducted and collaboration plan developed by year 1 	<ul style="list-style-type: none"> • Projects report • Minutes of meetings 	<ul style="list-style-type: none"> • Project capacity to adequately support the needed national and regional coordination and communication frameworks 	

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
	<ul style="list-style-type: none"> • Linkages and cooperation established with GCLME and other GEF IAs by year 1 • Linkages and cooperation established with other Sahel basin projects and other complementary projects in the region by year 1 	<ul style="list-style-type: none"> • Minutes of meetings • Workshops reports • Progress reports • Joint documents or reports 		
1.2 Enhanced capacity for sustainable international basin management including education, training, institutional development	<ul style="list-style-type: none"> • Training needs of national institutions for IRB management identified and training plan developed by year 2 • Number of replicable modules, public awareness material and other training material relevant to train on IRB management developed and disseminated by year 2 • Number of country-based workshops on IRB management organized by year 3 • Categories and number of staff trained in the key institutions by year 3 	<ul style="list-style-type: none"> • PMU, NFP, NIC and Task Force reports • Course module documents and training materials • Public awareness material • Workshops and training sessions reports • Workshops and training sessions reports 	<ul style="list-style-type: none"> • Countries and key stakeholders not willing to participate fully in training and awareness campaigns • Project capacity to adequately develop and implement the needed national and regional training tools 	
1.3 Stakeholders fully involved	<ul style="list-style-type: none"> • Stakeholders' involvement plan developed by year 1 	<ul style="list-style-type: none"> • Involvement Plan • PMU, Task Force, 	<ul style="list-style-type: none"> • Willingness of key stakeholders to participate 	

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
	and implemented	NIC, and NFP report	in project activities	
	<ul style="list-style-type: none"> • Training gaps for stakeholders' involvement in the project activities (mainly TDA, SAP and APNP-VRB process) identified and national level training plan developed and implemented 	<ul style="list-style-type: none"> • PMU, NFP, NIC and Task Force reports • Training packages • Training reports 	<ul style="list-style-type: none"> • Willingness of national authorities to institutionalize the participation of stakeholders 	
	<ul style="list-style-type: none"> • Number and categories of stakeholders involved in the TDA, SAP, APNP-VRB and other project activities 	<ul style="list-style-type: none"> • PMU, NFP, NIC and Task Force reports • Local stakeholder groups 		
1.4 Basin wide networking, data production and information exchange strategy and mechanisms developed, including: (i) thematic studies; (ii) project database and website established and functioning, and, (iii) hydrological and coastal hydrodynamics models developed.	<ul style="list-style-type: none"> • Available data and information at country level inventoried and analyzed and gaps identified by year 2 	<ul style="list-style-type: none"> • PMU, NFP and NIC reports and other technical reports 	<ul style="list-style-type: none"> • Project capacity to adequately support the needed national and regional coordination and communication frameworks • Reliability of data. • Willingness of national authorities to share national data and information 	
	<ul style="list-style-type: none"> • Training gaps for data management and monitoring identified by year 2 and national level training packages developed and implemented by year 2 	<ul style="list-style-type: none"> • PMU, Task force , NFP and NIC reports • Training packages • Training reports 	<ul style="list-style-type: none"> • Willingness of national institutions their data management and monitoring capacities 	

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
	<ul style="list-style-type: none"> Project database developed by year 1 and updated at regional and national levels 	<ul style="list-style-type: none"> Project database 	<ul style="list-style-type: none"> Reliability of data. Willingness of national authorities to share national data and information 	
	<ul style="list-style-type: none"> Relevant data and information collected and monitored in all countries and included in TDA, SAP and APNP-VRB process 	<ul style="list-style-type: none"> PMU, Task force , NFP and NIC reports TDA, SAP and APNP-VRB documents 	<ul style="list-style-type: none"> Reliability of data. Willingness of national authorities to share national data and information 	
	<ul style="list-style-type: none"> Hydrological and coastal hydrodynamic models developed by year 3 and operational 	<ul style="list-style-type: none"> Technical reports PMU reports 	<ul style="list-style-type: none"> Lack or difficult access to reliable data to run developed models 	
	<ul style="list-style-type: none"> At least 2 thematic studies carried out on water and related natural resources of the Volta River Basin based on identified gaps (by year 3) 	<ul style="list-style-type: none"> Technical and thematic reports PMU reports 	<ul style="list-style-type: none"> Lack or difficult access to reliable data and information 	
	<ul style="list-style-type: none"> Feasibility study of the regional Volta Basin Observatory completed and approved by the VBA by end of year 3 	<ul style="list-style-type: none"> Project and RBO reports 		
	<ul style="list-style-type: none"> Project website developed by year 1 and maintained 	<ul style="list-style-type: none"> Project website 	<ul style="list-style-type: none"> Project capacity to develop and maintain website 	

Outputs / Results corresponding to Objective n° 2: Develop river basin legal, regulatory and institutional frameworks, and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area				
Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
2.1 Management tools provided through project activities to the regional coordination mechanism (Volta Basin Authority)	<ul style="list-style-type: none"> • VBA and Volta Basin Technical Committee established, operational with concrete work plan developed incorporating SAP and APNP-VRB 	<ul style="list-style-type: none"> • VBA work plan and reports • SAP/APNP-VRB documents and other project reports 	<ul style="list-style-type: none"> • Willingness of national authorities to establish a regional coordination mechanism for the sustainable management of the Volta River Basin. 	<ul style="list-style-type: none"> • An Volta Basin Technical Committee (VBTC) is already established by the six riparian countries (July 2004)
2.2 Convention for the sustainable management of the Volta River Basin ratified and entered in force	<ul style="list-style-type: none"> • Project meetings at Ministerial level advocate importance of ratifying the convention • Convention ratified by RBO riparian countries 	<ul style="list-style-type: none"> • Project and RBO reports • Minutes of meetings • Ratified document 	<ul style="list-style-type: none"> • At least four countries among six have to ratify the convention before it enters in force • Willingness of national authorities to establish a regional coordination mechanism for the sustainable management of the Volta River Basin 	<ul style="list-style-type: none"> • Convention developed and signed by the six countries on 19 January 2007 • The convention has been ratified by 2 countries (Burkina Faso and Mali)
2.3 Transboundary Diagnostic Analysis (TDA) updated and completed	<ul style="list-style-type: none"> • Final TDA approved by the project Steering committee by end of year 2 	<ul style="list-style-type: none"> • TDA published and broadly disseminated • Workshop reports 	<ul style="list-style-type: none"> • Riparian countries or RBO failing to participate fully and actively to ensure project success. • RBO and Countries will have the ability to implement management plans and realize strategies. • Adequate funding for plans and strategies. • Project capacity to adequately support the needed national and 	
2.4 Strategic Action Programme (SAP) for the integrated management of the Volta River Basin developed with concrete investments identified to address priority transboundary problems	<ul style="list-style-type: none"> • SAP available and approved by the Steering Committee by end of year 4. 	<ul style="list-style-type: none"> • SAP published • PMU, Task force and PSC meeting reports 		
	<ul style="list-style-type: none"> • Financing strategies for SAP implementation and beyond SAP lifespan developed by year 4 	<ul style="list-style-type: none"> • PMU, Task Force and NIC reports 		
	<ul style="list-style-type: none"> • Final SAP endorsed at ministerial level (Water and Environment Ministers) by end of year 4 	<ul style="list-style-type: none"> • PMU, Task force and Ministerial meeting reports 		

Outputs / Results corresponding to Objective n° 2: Develop river basin legal, regulatory and institutional frameworks, and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area				
Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
	<ul style="list-style-type: none"> • VBA adopt SAP into their work plan as mechanism for the implementation of the convention by end of year 4 	<ul style="list-style-type: none"> • VBA and PMU reports 	<ul style="list-style-type: none"> • regional coordination and communication frameworks • Participating countries and stakeholders will appreciate the benefits of EQSs, EQOs and basin development indicators • Political will of riparian countries to continue to enforce EQOs • Willingness of national authorities to integrate transboundary environmental concerns into the IWRM and sectoral plans 	<ul style="list-style-type: none"> • The project will support the establishment of the RBO observatory through the development of Regionally accepted indicators and monitoring process • The APNP-VRB process will facilitate the integration of transboundary environmental concerns considered into the IWRM and sectoral plans at national level
	<ul style="list-style-type: none"> • Set of relevant indicators including monitoring plan based on EQSs defined and approved at regional and national levels by year 4 	<ul style="list-style-type: none"> • PMU and Task Force reports • Thematic reports • Minutes of meetings 		
2.5 Action Plans for the National Parts of the VRB (APNP-VRB) to restore and maintain the ecological integrity of the national part of the basin developed	<ul style="list-style-type: none"> • APNP-VRB finalised and endorsed at country level by end of year 4 • Financing strategies for APNP-VRB implementation and beyond APNP-VRB lifespan developed • APNP-VRB developed in line with IWRM process 	<ul style="list-style-type: none"> • APNP-VRB published and broadly disseminated • PMU, Task Force and NIC reports • PMU, Task Force, NFP and NIC reports • Minutes of meetings • National IWRM reports 		
2.6 Measure in place to harmonise the sectoral plans at national level with the SAP/APNP-VRB	<ul style="list-style-type: none"> • Sector based assessment on key TDA issues and outlining sectoral actions to be included in the APNP-VRB completed by year 3 	<ul style="list-style-type: none"> • PMU, Task Force, NFP and NIC reports • Minutes of meetings • National IWRM reports 	<ul style="list-style-type: none"> • Willingness of national authorities to integrate transboundary environmental concerns into the IWRM and sectoral plans 	
2.7 Enhanced capacity of governments to implement policies and strategies that address SAP/APNP-VRB priorities	<ul style="list-style-type: none"> • Training needs for SAP and APNP-VRB implementation identified and national level training packages developed and implemented by year 4 	<ul style="list-style-type: none"> • PMU, Task Force, NFP and NIC reports • Training packages • Training reports 	<ul style="list-style-type: none"> • Willingness of national authorities to have adequate capacities to implement management plans and strategies. 	

Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin				
Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
3.1 Three Demo project successfully implemented	<ul style="list-style-type: none"> • MOUs on Demo projects implementation signed with riparian countries by year 1 	<ul style="list-style-type: none"> • Signed MOUs 	<ul style="list-style-type: none"> • Demo projects sites selected through criteria that maximises clear understanding of land water degradation problems • Willingness of key stakeholders to participate in Demo projects 	<ul style="list-style-type: none"> • An inception period is recommended for each demo project. • During the inception phase, each demo project will be reviewed (logframe, activities, budget , M&E plan and work plan)
	<ul style="list-style-type: none"> • Three Demo projects executed resulting in stress reduction (see demo logframe) by year 3 	<ul style="list-style-type: none"> • PMU, NFP, NIC, and Task Force reports 		
	<ul style="list-style-type: none"> • Lessons learned from the 3 Demo projects documented and incorporated in SAP and APNP-VRB documents by year 4 	<ul style="list-style-type: none"> • PMU, NFP, NIC, and Task Force reports • SAP/APNP-VRB documents 		
3.2 Six national Demo projects are prepared to be submitted to co-funding partners	<ul style="list-style-type: none"> • Six Demo project concept documents developed and approved at regional and national levels by year 4 	<ul style="list-style-type: none"> • Demo projects documents • PMU, NIC, and Task Force reports 	<ul style="list-style-type: none"> • Riparian countries or RBO failing to participate fully and actively to ensure success of Demo projects 	
	<ul style="list-style-type: none"> • Financing strategies for the implementation of the 6 Demo projects developed and approved at regional and national levels by year 4 	<ul style="list-style-type: none"> • PMU, Task Force and NIC reports 		
3.3 Replication plan for the Demo project developed	<ul style="list-style-type: none"> • Plan for the replication of Demo projects developed by the project, approved by the six countries and incorporated in the SAP by year 3 	<ul style="list-style-type: none"> • Replication plan • PMU, NFP, NIC, and Task Force reports 	<ul style="list-style-type: none"> • Riparian countries or RBO failing to participate fully and actively to ensure success of Demo projects 	

8.2 Annex B: Revised List of Activities and Work-Plan

Annex B-1: Detailed activities and work plan corresponding to Specific Objective n° 1

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB		2008				2009				2010				2011				12
Code	Activities	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
R1.1: Project management and co-ordination established, including project monitoring and evaluation plan and co-operation mechanisms with other relevant projects/initiatives																		
A1.1.1.	• Establish the Project Management Unit	X	X															
A1.1.2.	• Prepare and sign LOU with governments on the implementation of the overall project		X															
A1.1.3.	• Establish the Project Steering committee		X															
A1.1.4.	• Nominate the Project National Focal Points		X	X														
A1.1.5.	• Establish the Project National Implementation Committees		X															
A1.1.6.	• Establish the Project Task force		X															
A1.1.7.	• Develop and implement project monitoring and evaluation plan	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
A1.1.8.	• Analyse all relevant national and regional projects/initiatives and develop collaboration plan		X	X														
A1.1.9.	• Identify linkages, establish and implement cooperation agreements with: GCLME and other GEF IAs, other Sahel basin projects and complementary projects in the region		X	X														
A1.1.10.	• Prepare the inception report	X	X															
A1.1.11.	• Submit the inception report to the steering committee for approval		X															
A1.1.12.	• Training of national coordinators and NOFP on TDA/SAP process			X														
A1.1.13.	• Document project implementation and communicate results through publications, regional and internal reports, project newsletter and project website	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1.2: Enhanced capacity for sustainable international basin management including education, training, institutional development and monitoring																		
A1.2.1.	• Prepare the matrix of national institutions concerned by the management of the Volta Basin, analyse their mandates and capacities			X	X													
A1.2.2.	• Identify training gaps and prioritise training needs of national institutions for IRB management			X	X													
A1.2.3.	• Develop replicable modules and other training material on IRB management relevant to the training of personnel in the key institutions					X												
A1.2.4.	• Develop national training plans for the training of personnel in the key institutions					X												
A1.2.5.	• Organise national training sessions on IRB management for personnel in the key institutions (1 session per country)					X												
R1.3: Stakeholders fully involved																		
A1.3.1.	• Prepare and analyse the stakeholders matrix: main activities and mandates, links with the management of the Volta Basin, and capacities to address IRB issues			X	X													
A1.3.2.	• Identify training gaps and prioritise training needs for stakeholder involvement in the project activities			X	X													

Annexe B: Revised List of Activities and Work-Plan

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB																			
Code	Activities	2008				2009				2010				2011				12	
		1	2	3	4	1													
A1.3.3.	• Develop stakeholders' involvement plan using the results of A1.3.1 and A1.3.2				X														
A1.3.4.	• Develop replicable modules and other awareness raising campaigns material relevant to the sensitization and training of stakeholders on IRB management					X													
A1.3.5.	• Develop national training plans for the involvement of stakeholders					X													
A1.3.6.	• Organise at national level, awareness raising campaigns on IRB management for stakeholders using the results of A1.3.3 (1 campaign per country)					X													
A1.3.7.	• Support and co-organise the celebration of international water or environment events in riparian countries			X		X			X		X		X		X		X		X
R1.4: Basin wide networking, data production and information exchange strategy and mechanisms developed, including: (i) thematic studies; (ii) project database and website established and functioning, and: (iii) hydrological and coastal hydrodynamics models developed.																			
A1.4.1.	• Inventory and analyse existing data (water uses, environmental, social and economic) and information at national and regional levels and relevant data for addressing transboundary concerns in the Volta River Basin				X	X													
A1.4.2.	• Identify training gaps and prioritise training needs for data management and monitoring (national institutions)				X	X													
A1.4.3.	• Develop training packages on data management and monitoring using the results of A1.4.1 and A1.4.2					X													
A1.4.4.	• Develop national training plans on data management and monitoring					X													
A1.4.5.	• Organise national training sessions on data management and monitoring (1 session per country)							X											
A1.4.6.	• Develop and operate project database at national and regional levels			X	X	X		X		X		X		X		X		X	X
A1.4.7.	• Set up a mechanism for the circulation of data and information at national and regional levels				X	X	X												
A1.4.8.	• Collect and analyse relevant data and information and update the project database on regular basis		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A1.4.9.	• Develop hydrological and coastal hydrodynamic models of the Volta basin and its Downstream Coastal Area							X	X	X									
A1.4.10.	• Carry out thematic study on relations between catchments area and stream flow									X	X	X							
A1.4.11.	• Carry out thematic study on the relations between Volta basin and its Downstream Coastal Area, using ICARM concept									X	X	X							
A1.4.12.	• Organize one scientific workshop in collaboration with UNESCO																X		
A1.4.13.	• Develop and update project website on regular basis		X	X	X		X	X		X		X		X		X		X	X
A1.4.14.	• Carry out a study on the establishment of the Volta Basin Observatory												X	X	x				

Annex B-2: Detailed activities and work plan corresponding to Specific Objective n° 2

Outputs / Results corresponding to Objective n° 2: Develop river basin legal, regulatory and institutional frameworks, and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area		2008				2009				2010				2011				12
Code	Activities	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
R2.1: Support provided through project activities to the regional coordination mechanism (Just for the record)																		
A2.1.1.	• Insert the SAP and APNP-VRB into the VBA work plan (just for the record)																	
R2.2: Support for the ratification of the Convention for the sustainable management of the Volta River Basin (Just for the record)																		
A2.2.1.	• Advocate at Ministerial level and through project meetings, workshops and reports, the importance of ratifying the basin convention (just for the record)																	
R2.3: Transboundary Diagnostic Analysis (TDA) updated and completed																		
A2.3.1.	• Gather national and regional documents, data and information and update the situation analysis			X	X													
A2.3.2.	• Review the preliminary TDA document and identify gaps			X														
A2.3.3.	• Organize 6 workshops at country level with stakeholders and national institutions				X	X												
A2.3.4.	• Update and complete the transboundary diagnostic analysis document					X	X	X	X									
A2.3.5.	• Organize validation regional workshop with national, regional and international institutions and stakeholders								X									
A2.3.6.	• Submit the TDA document to the Steering Committee for approval									X								
R2.4: Strategic Action Programme (SAP) for the integrated management of the Volta River Basin developed with concrete investments identified to address priority transboundary problems																		
A2.4.1.	• Organize starting (commencement) regional workshop with national, regional and international institutions and stakeholders					X												
A2.4.2.	• Organize 6 workshops at country level (with national institutions and stakeholders) as input to the SAP elaboration						X											
A2.4.3.	• Prepare the Strategic Action Programme document							X	X	X	X	X	X					
A2.4.4.	• Develop SAP implementation guideline												X	X				
A2.4.5.	• Develop monitoring & evaluation system for SAP implementation												X	X				
A2.4.6.	• Develop long term financing strategy for the SAP													X	X			
A2.4.7.	• Organize validation regional workshop with national, regional and international institutions and stakeholders														X	X		
A2.4.8.	• Submit the SAP document to the Steering Committee for approval																	X
A2.4.9.	• Organize a meeting of the Ministers in charge of Water and Environment for the endorsement of the SAP document (ideally in conjunction with RBO Ministerial meeting)																	X
A2.4.10.	• Insert the SAP into VBA work plan																	X
R2.5: Action Plans for the National Parts of the VRB (APNP-VRB) to restore and maintain the ecological integrity of the national part of the basin developed																		
A2.5.1.	• Organize 6 workshops at country level (with national institutions and stakeholders) as input to the APNP-VRB elaboration												X					
A2.5.2.	• Prepare the APNP-VRB documents													X	X	X	X	

Annexe B: Revised List of Activities and Work-Plan

Outputs / Results corresponding to Objective n° 2: Develop river basin legal, regulatory and institutional frameworks, and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area																				
Code	Activities	2008				2009				2010				2011				12		
		1	2	3	4	1														
A2.5.3.	• Develop APNP-VRB implementation guideline																X			
A2.5.4.	• Develop monitoring & evaluation system for APNP-VRB implementation																X			
A2.5.5.	• Develop long term financing strategy for the APNP-VRB																	X		
A2.5.6.	• Organize APNP-VRB validation workshops in each riparian country																		X	
A2.5.7.	• Submit APNP-VRB document to national authorities for endorsement																		X	
R2.6: Measure in place to harmonise the sectoral plans at national level with the SAP/APNP-VRB																				
A2.6.1.	• Sector based assessment on key TDA issues and outlining sectoral actions to be included in the APNP-VRB																	X	X	X
R2.7: Enhanced capacity of governments to implement policies and strategies that address SAP/APNP-VRB s priorities																				
A2.7.1.	• Identify training needs for SAP/APNP-VRB implementation (national level)																	X	X	
A2.7.2.	• Develop training packages on SAP/APNP-VRB implementation using the results of A2.7.1																		X	
A2.7.3.	• Develop national training plans on SAP/ APNP-VRB implementation																		X	
A2.7.4.	• Organise national high level training sessions on SAP/APNP-VRB implementation (1 session per country)																		X	X

Annex B-3: Detailed activities and work plan corresponding to Specific Objective n° 3

Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin																			
Code	Activities	2008				2009				2010				2011				12	
		1	2	3	4	1													
R3.1: 3 Demo project successfully implemented																			
A3.3.1.	• Sign MOU with governments on the implementation of the Demo projects		X	X															
A3.3.2.	• Review demo project documents (logframe, activities, budget , M&E plan and work plan) and prepare inception report		X	X	X														
A3.3.3.	• Implement the Demo project no 1: Joint management by Burkina Faso and Mali of a flow release warning system in the Sourou river valley (tributary of Black Volta River or Mouhoun)		X	X	X	X	X	X	X	X	X								
A3.3.4.	• Implement the Demo project no 2: Installing and comparing technological models of waste water treatment in the Cities of Kara (Togo) and Natitingou (Benin)		X	X	X	X	X	X	X	X	X								
A3.3.5.	• Implement the Demo project no 3: Restoring and protecting the river beds of the Black Volta River (Côte d'Ivoire & Ghana) and its tributaries through participative campaigns of reforestation		X	X	X	X	X	X	X	X	X								
A3.3.6.	• Evaluate the implementation of the three Demo projects						X						X						
A3.3.7.	• Document lessons learned from the three Demo projects and incorporate them in SAP and APNP-VRB documents													X	X				
R3.2: Six national Demo projects are prepared to be submitted to co-funding partners																			
A3.2.1.	• Develop six national Demo projects based and TDA/SAP priorities																X	X	
A3.2.2.	• Submit the six national Demo projects to riparian countries for approval																X		
A3.2.3.	• Develop financial plan and secure co-funding																	X	X
R3.3: Replication plan for the Demo project developed																			
A3.3.1.	• Develop a plan for the replication of the Demo projects												X	X	X				
A3.3.2.	• Submit the replication plan to riparian countries for approval														X				
A3.3.3.	• Incorporate the replication plan in the SAP													X	X	X			

8.3 Annex C: Revised Project Budget

UNEP BUDGET LINE/OBJECT OF EXPENDITURE	BUDGET ALLOCATION BY PROJECT COMPONENT/ACTIVITY *				ALLOCATION BY CALENDAR YEAR **				
	1	2	3	Total	Year 1	Year 2	Year 3	Year 4	Total
	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
10 PROJECT PERSONNEL COMPONENT									
1100 Project Personnel w/m (Show title/grade)									
1101 Regional Project Coordinator 48 (w/m)	231 817	231 817	231 817	695 450	184 638	163 638	170 184	176 991	695 450
1102 Scientific and Information Officer 48 (w/m)	170 342	170 342	170 342	511 026	149 542	115 801	120 433	125 250	511 026
1199 Sub-Total	402 159	402 159	402 159	1 206 477	334 180	279 439	290 617	302 241	1 206 477
1200 Consultants w/m (Give description of activity/service)									
1201 Consultancy Contract with the members of the Task Force	128 000	128 000	128 000	384 000	96 000	96 000	96 000	96 000	384 000
1202 Consultants for sub-result R1.1:	4 800			4 800	4 800	0	0	0	4 800
1203 Consultants for sub-result R1.2	25 600	0	0	25 600	25 600	0	0	0	25 600
1204 Consultants for sub-result R1.3	38 800	0	0	38 800	38 800	0	0	0	38 800
1205 Consultants for sub-result R1.4	127 000			127 000	112 300	500	13 700	500	127 000
1206 Consultants for sub-result R2.3		53 600		53 600	44 800	8 800	0	0	53 600
1207 Consultants for sub-result R2.4		60 800		60 800	0	15 840	29 120	15 840	60 800
1208 Consultants for sub-result R2.5		115 200		115 200	0	23 760	31 680	59 760	115 200
1209 Consultants for sub-result R2.6		26 400		26 400	0	0	0	26 400	26 400
1210 Consultants for sub-result R2.7		12 000		12 000	0	0	0	12 000	12 000
1211 Consultants for sub-result R3.1			13 200	13 200	0	0	13 200	0	13 200
1212 Consultants for sub-result R3.2			39 600	39 600	0	0	0	39 600	39 600
1213 Consultants for sub-result R3.3			6 400	6 400	0	0	4 400	2 000	6 400
1299 Sub-Total	324 200	396 000	187 200	907 400	322 300	144 900	188 100	252 100	907 400
1300 Administrative support w/m (Show title/grade)									
1301 Admin. Ass. 48 (w/m)	13 148	13 148	13 148	39 444	6 720	10 483	10 903	11 339	39 444
1302 Secretary Salary 48(w/m)	12 365	12 365	12 365	37 096	6 320	9 859	10 254	10 664	37 096
1399 Sub-Total	25 514	25 514	25 514	76 541	13 040	20 342	21 156	22 002	76 541

UNEP BUDGET LINE/OBJECT OF EXPENDITURE	BUDGET ALLOCATION BY PROJECT COMPONENT/ACTIVITY *				ALLOCATION BY CALENDAR YEAR **				
	1	2	3	Total	Year 1	Year 2	Year 3	Year 4	Total
	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
1400 Volunteers w/m									
1499 Sub-Total	0	0	0	0	0	0	0	0	0
1600 Travel on official business (above staff)									
1601 Travel of PMU for Result R1.1	50 000			50 000	35 000	15 000	0	0	50 000
1602 Travel of PMU for Result R1.2	10 000			10 000	0	10 000	0	0	10 000
1603 Travel of PMU for Result R1.3	10 000			10 000	0	10 000	0	0	10 000
1604 Travel of PMU for Result R1.4	5 000			5 000	0	0	5 000	0	5 000
1605 Travel of PMU for Result R2.3		8000		8 000	8000	0	0	0	8 000
1606 Travel of PMU for Result R2.4		28000		28 000	0	18000	10000	0	28 000
1607 Travel of PMU for Result R2.5		24000		24 000	0	0	8000	16000	24 000
1608 Travel of PMU for Result R2.6		10000		10 000	0	0	0	10000	10 000
1609 Travel of PMU for Result R2.7		10000		10 000	0	0	0	10000	10 000
1610 Travel of PMU for Result R3.1			38000	38 000	18000	15000	5000	0	38 000
1611 Travel of PMU for Result R3.2			10000	10 000	0	0	0	10000	10 000
1612 Participation to International and regional forum	10000	10000	10000	30 000	7500	7500	7500	7500	30 000
1699 Sub-Total	85 000	90 000	58 000	233 000	68 500	75 500	35 500	53 500	233 000
1999 Component Total	836 873	913 673	672 873	2 423 418	738 020	520 181	535 373	629 844	2 423 418
20 SUB-CONTRACT COMPONENT									
2100 Sub-contracts (MoU's/LA's for UN cooperating agencies)									
2199 Sub-Total	0	0	0	0	0	0	0	0	0
2200 Sub-contracts (MoU's/LA's for non-profit supporting organizations)									
2201 MOAs with Benin government	12 167	12 167	12 167	36 500	8 375	9 375	9 375	9 375	36 500
2202 MOAs with Burkina Faso government	12 167	12 167	12 167	36 500	8 375	9 375	9 375	9 375	36 500
2203 MOAs with Côte d'Ivoire government	12 167	12 167	12 167	36 500	8 375	9 375	9 375	9 375	36 500
2204 MOAs with Ghana government	12 167	12 167	12 167	36 500	8 375	9 375	9 375	9 375	36 500
2205 MOAs with Mali government	12 167	12 167	12 167	36 500	8 375	9 375	9 375	9 375	36 500
2206 MOAs with Togo government	12 167	12 167	12 167	36 500	8 375	9 375	9 375	9 375	36 500
2207 MOA with partner for Demo Project 1	0	0	110 100	110 100	44 040	22 020	22 020	22 020	110 100

UNEP BUDGET LINE/OBJECT OF EXPENDITURE	BUDGET ALLOCATION BY PROJECT COMPONENT/ACTIVITY *				ALLOCATION BY CALENDAR YEAR **				
	1	2	3	Total	Year 1	Year 2	Year 3	Year 4	Total
	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
2208 MOA with partner for Demo Project 2	0	0	254 700	254 700	101 880	50 940	50 940	50 940	254 700
2209 MOA with partner for Demo Project 3	0	0	263 400	263 400	105 360	52 680	52 680	52 680	263 400
2210 MOA with LTHE/AMMA	20 000	20 000	20 000	60 000	15 000	15 000	15 000	15 000	60 000
2211 LOA with UCC Water	17 000	17 000	17 000	51 000	12 750	12 750	12 750	12 750	51 000
2212 MOA with International organisation including GEF/SAHEL Projects	25 000	25 000	25 000	75 000	18 750	18 750	18 750	18 750	75 000
2299 Sub-Total	135 000	135 000	763 200	1 033 200	348 030	228 390	228 390	228 390	1 033 200
2300 Sub-contracts (commercial purposes)									
2399 Sub-Total	0	0	0	0	0	0	0	0	0
2999 Component Total	135 000	135 000	763 200	1 033 200	348 030	228 390	228 390	228 390	1 033 200
30 TRAINING COMPONENT									
3100 Fellowships (total stipend/fees, travel costs, etc)									
3199 Sub-Total	0	0	0	0	0	0	0	0	0
3200 Group training (study tours, field trips, workshops, seminars, etc) (give title)									
3201 Organise national training sessions on IRB management for personnel in the key institutions (1 session per country)	60 000	0	0	60 000	0	60 000	0	0	60 000
3202 Organise at national level, awareness raising campaigns on IRB management for stakeholders(1 session per country)	30 000	0	0	30 000	0	30 000	0	0	30 000
3203 Support and co-organise the celebration of international water or environment events in riparian countries	40 000	0	0	40 000	10 000	10 000	10 000	10 000	40 000
3204 Organise national training sessions on data management and monitoring (1 session per country)	30 000	0	0	30 000	0	30 000	0	0	30 000

UNEP BUDGET LINE/OBJECT OF EXPENDITURE	BUDGET ALLOCATION BY PROJECT COMPONENT/ACTIVITY *				ALLOCATION BY CALENDAR YEAR **				
	1	2	3	Total	Year 1	Year 2	Year 3	Year 4	Total
	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
3205 Organise national high level training sessions on SAP/NAPs implementation (1 session per country)	0	48 000	0	48 000	0	0	0	48 000	48 000
3206 Training of national coordinators and their assistants on TDA/SAP process	48 000	0	0	48 000	48 000	0	0	0	48 000
3299 Sub-Total	208 000	48 000	0	256 000	58 000	130 000	10 000	58 000	256 000
3300 Meetings/conferences (give title)									
3301 5 Project Steering committee meetings	65 000	65 000	65 000	195 000	39 000	39 000	39 000	78 000	195 000
3302 Organize one scientific workshop in collaboration with UNIESCO	8173	8173	8173	24520	0	0	0	24520	24520
3303 Workshop for sub-result R2.3	0	87 000	0	87 000	42 000	45 000	0	0	87 000
3304 Workshop for sub-result R2.4	0	172 000	0	172 000	0	87 000	0	85 000	172 000
3305 Workshop for sub-result R2.5	0	42 000	0	42 000	0	0	42 000	0	42 000
3306 Workshop for sub-result R2.6	0	36 000	0	36 000	0	0	0	36 000	36 000
3307 Workshop for sub-result R3.2 and 33	0	0	0	0	0	0	0	0	0
3399 Sub-Total	73 173	410 173	73 173	556 520	81 000	171 000	81 000	223 520	556 520
3999 Component Total	281 173	458 173	73 173	812 520	139 000	301 000	91 000	281 520	812 520
40 EQUIPMENT & PREMISES COMPONENT									
4100 Expendable equipment (items under \$1,500 each, for example)									
4101 Office supplies (including Toners for printers, Fax, photocopier,...)	5 000	5 000	5 000	15 000	3 750	3 750	3 750	3 750	15 000
4102 Library acquisitions	3 000	3 000	3 000	9 000	4 500	4 500	0	0	9 000
4103 Computer Software	4 000	0	0	4 000	3 000	500	500	0	4 000
4199 Sub-Total	12 000	8 000	8 000	28 000	11 250	8 750	4 250	3 750	28 000
4200 Non-expendable equipment (computers, office equip, etc)									
4201 Computer Hardware (Inc. 2 Laptop, copier)	12 000	12 000	12 000	36 000	36 000	0	0	0	36 000
4202 Office Equipment	0	0	0	0	0	0	0	0	0
4203 Digital Video/Camera	700	700	700	2 100	2 100	0	0	0	2 100

UNEP BUDGET LINE/OBJECT OF EXPENDITURE	BUDGET ALLOCATION BY PROJECT COMPONENT/ACTIVITY *				ALLOCATION BY CALENDAR YEAR **				
	1	2	3	Total	Year 1	Year 2	Year 3	Year 4	Total
	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
4299 Sub-Total	12 700	12 700	12 700	38 100	38 100	0	0	0	38 100
4300 Premises (office rent, maintenance of premises, etc)									
4301 Office Maintenance	2 000	2 000	2 000	6 000	1 500	1 500	1 500	1 500	6 000
4399 Sub-Total	2 000	2 000	2 000	6 000	1 500	1 500	1 500	1 500	6 000
4999 Component Total	26 700	22 700	22 700	72 100	50 850	10 250	5 750	5 250	72 100
50 MISCELLANEOUS COMPONENT									
5100 Operation and maintenance of equip. (example shown below)									
5101 Rental & maint. of computer equip.	1 000	2 000	2 000	5 000	0	2 000	2 000	1 000	5 000
5102 Rental & maint. of copiers	1 000	1 000	1 000	3 000	0	1 000	1 000	1 000	3 000
5103 Repair & maint. of vehicles & insurance	0	0	0	0	0	0	0	0	0
5104 Rental & maint. of other office equip	1 000	1 000	1 000	3 000	0	1 000	1 000	1 000	3 000
5105 Rental of meeting rooms & equip.	0	0	0	0	0	0	0	0	0
5199 Sub-Total	3 000	4 000	4 000	11 000	0	4 000	4 000	3 000	11 000
5200 Reporting costs (publications, maps, newsletters, printing, etc)									
5201 Document project implementation and communicate results through publications, regional and internal reports, project newspaper and project website including translation	100 000	180 000	70 000	350 000	70 000	90 000	90 000	100 000	350 000
5202 Document lessons learned from the 3 demonstration projects documented and incorporate them in SAP and NAPs documents	0	0	20 000	20 000	0	0	20 000	0	20 000
5299 Sub-Total	100 000	180 000	90 000	370 000	70 000	90 000	110 000	100 000	370 000
5300 Sundry (communications, postage, freight, clearance charges, etc)									
5301 Communication	10 000	20 000	20 000	50 000	12 500	12 500	12 500	12 500	50 000
5302 Auditing	25 000	20 000	20 000	65 000	0	25 000	0	40 000	65 000
5303 Unspecified	4 040	5 000	5 000	14 040	3 510	3 510	3 510	3 510	14 040

UNEP BUDGET LINE/OBJECT OF EXPENDITURE	BUDGET ALLOCATION BY PROJECT COMPONENT/ACTIVITY *				ALLOCATION BY CALENDAR YEAR **				
	1	2	3	Total	Year 1	Year 2	Year 3	Year 4	Total
	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
5399 Sub-Total	39 040	45 000	45 000	129 040	16 010	41 010	16 010	56 010	129 040
5400 Hospitality and entertainment									
5499 Sub-Total	0	0	0	0	0	0	0	0	0
5500 Evaluation (consultants fees/travel/ DSA, admin support, etc. internal projects)									
5501 Evaluation of the implementation of the 3 demonstration projects	0	0	30 000	30 000	0	10 000	20 000	0	30 000
5502 Evaluation costs (overall project)	20 000	30 000	20 000	70 000	0	30 000	0	40 000	70 000
5599 Sub-Total	20 000	30 000	50 000	100 000	0	40 000	20 000	40 000	100 000
5999 Component Total	162 040	259 000	189 000	610 040	86 010	175 010	150 010	199 010	610 040
TOTAL COSTS	1 441 786	1 788 546	1 720 946	4 951 278	1 361 910	1 234 831	1 010 523	1 344 014	4 951 278
Project Execution Costs -UNOPS (8%)	115 343	143 084	137 676	396 102	108 953	98 787	80 842	107 521	396 102
GRAND TOTAL COSTS	1 557 129	1 931 630	1 858 622	5 347 380	1 470 863	1 333 618	1 091 364	1 451 535	5 347 380

8.4 Annex D: Updated logframe, activities, work plan and budget (Demo Projects)

Annex D-1a: Updated Logframe of the Demo Project # DP1: Joint management of a flow release warning system in the Sourou river valley (tributary of Black Volta or Mouhoun)

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
Project's overall objective: To prevent/mitigate the risks of flooding in the Sourou catchment through a joint management system operated by the two riparian countries, Mali and Burkina Faso	<ul style="list-style-type: none"> Hydrometric and rain gauge networks reinforced and optimized by year 1 and relevant data collected, monitored and published on yearly basis 	<ul style="list-style-type: none"> Project reports Stations installation reports Technical reports 	<ul style="list-style-type: none"> Experience and skills of national staff 	
	<ul style="list-style-type: none"> Tools to mitigate floods impacts and improve Sourou river valley management including Lery dam, developed and implemented by year 2 	<ul style="list-style-type: none"> Thematic reports Project reports 	<ul style="list-style-type: none"> Experience and skills of national staff 	
	<ul style="list-style-type: none"> Convention for the joint management of the Sourou river valley prepared and signed by the two countries by year 3 	<ul style="list-style-type: none"> Signed convention Project reports Meetings report 	<ul style="list-style-type: none"> Willingness of national authorities to establish a joint coordination mechanism for the sustainable management of the Sourou river valley. 	
Outputs / Results corresponding to Specific Objective n° 1: Improve the monitoring of hydrometric data, the characterization of hydrological processes and the management of Lery dam				
Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
1.1 Demo project management established, including co-operation mechanisms with national institutions	<ul style="list-style-type: none"> Demo project management bodies established and functional by year 1 	<ul style="list-style-type: none"> NFP reports Contracts signed by personnel Acts of nomination Minutes of meetings 	<ul style="list-style-type: none"> The two countries failing to participate fully and actively to ensure project success. 	
	<ul style="list-style-type: none"> Convention of collaboration prepared and signed with DNH Mali and DGRE Burkina Faso by year 1 	<ul style="list-style-type: none"> Signed conventions 		

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
1.2 Hydrometric and rain gauge networks of the Sourou river valley reinforced and data management and publication mechanisms strengthened	• Hydrometric and rain gauge stations are installed, rehabilitated or equipped for remote transmission of data and functional by year 1	• Project reports • Station installation reports	• Experience and skills of national staff	
	• Hydrometric and precipitation databases updated on regular basis	• Databases	• Experience and skills of national staff	
	• Hydrometric and precipitation data analysed and published on yearly basis	• Thematic reports • Training reports	• Experience and skills of national staff	
1.3 Characterization of hydrological processes and management of the Lery dam improved	• Hydrological model for the Mouhoun and Sourou rivers developed and appropriated by civil servants in the two countries by year 3	• Thematic reports • Training reports • Hydrological model	• Experience and skills of national staff	• Sub-model of the overall Volta River Basin model (Objective 1 of the overall VRB)
	• Early warning system developed, validated and appropriated by civil servants in the two countries by year 3	• Thematic reports • Training reports	• Experience and skills of national staff	
	• Measures to mitigate floods impacts and improve the management of Lery dam defined based on probable scenarios analysis (by year 3)	• Thematic reports • Project reports	• Experience and skills of national staff	
	• Floods impacts evaluated, compared to baseline situation and documented by year 3	• Thematic reports • Training reports	• Experience and skills of national staff	
Outputs / Results corresponding to Specific Objective n° 2: Develop a framework convention for the joint management of the Sourou river valley				
2.1 Convention for the joint management of the Sourou river valley developed and signed	• Convention prepared and signed by the two countries by year 3	• Signed convention	• Willingness of national authorities to establish a joint coordination	

Annex D-1: Updated logframe, activities, work plan and budget (DP 1)

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
2.2 Institutional framework for the implementation of the convention established	<ul style="list-style-type: none"> • Bilateral committee established and functional by year 3 	<ul style="list-style-type: none"> • Minutes of meetings • Project reports • Acts of nomination 	mechanism for the sustainable management of the Sourou river valley.	

Annex D-1b: Detailed activities and work plan corresponding to the Demo Project # DP1: Joint management of a flow release warning system in the Sourou river valley (tributary of Black Volta or Mouhoun)

Code	Activities	2008				2009				2010				2011				12
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
Outputs / Results corresponding to Objective n° 1: Improve the monitoring of hydrometric data, the characterization of hydrological processes and the management of Lery dam																		
R1.1: Demo project management established, including co-operation mechanisms with national institutions																		
A1.1.1.	• Establish the Demo Project Management Units in Mali and Burkina Faso	X	X															
A1.1.2.	• Prepare and sign LOU/cooperation agreement with governments of Mali and Burkina Faso on the implementation of the Demo project	X	X															
A1.1.3.	• Establish Demo project bilateral committee		X															
A1.1.4.	• Organise at least 3 bilateral meetings on project implementation		X			X			X									
A1.1.5.	• Conduct a study on the baseline situation			X														
A1.1.6.	• Prepare the inception report			X														
A1.1.7.	• Submit the inception report to the bilateral committee for approval				X													
R1.2: Hydrometric network and rain gauge networks of the Sourou river valley reinforced and data management and publication mechanisms strengthened																		
A1.2.1.	• Installation of a new hydrometric station at Laharisso/Tourouba in Burkina Faso					X												
A1.2.2.	• Rehabilitation of the hydrometric stations of Kouri along the Mouhoun, Baye and Goré in Mali					X												
A1.2.3.	• Equip the hydrometric stations of Samendeni, Nwokuy upstream and Nwokuy downstream with a system of data tele-transmission (GSM + readers of scales) in Burkina Faso						X											
A1.2.4.	• Install 5 rain gauge stations at Laharisso/Tourouba, Kouri along the Mouhoun, Samendeni, Nwokuy upstream and Nwokuy downstream						X											
A1.2.5.	• Collect and analyse hydrometric data (water levels and flow) and precipitation data and update existing databases on regular basis						X	X										
A1.2.6.	• Document data analysis through publication of annual reports								X									
R1.3: Characterization of hydrological processes and management of the Lery dam improved																		
A1.3.1.	• Carry out study on the characterisation of hydrological processes on the Mouhoun and Sourou rivers					X	X											
A1.3.2.	• Develop hydrological model for the characterisation of the Mouhoun and Sourou rivers (this activity is funded under component 1 of the overall VRB Project)						X	X	X									
A1.3.3.	• Organise national training sessions on the use of the hydrological model								X									
A1.3.4.	• Develop early warning system aiming to mitigate floods impacts						X	X										
A1.3.5.	• Carry out study on different probable flooding scenarios based on data analysis and the early warning system							X										
A1.3.6.	• Propose measures to mitigate floods impacts and improve the management of Lery dam based on identified scenarios							X										
A1.3.7.	• Organise national training sessions on the early warning system and tools developed for the management of the Lery dam							X										

Annex D-1: Updated logframe, activities, work plan and budget (DP 1)

Code	Activities	2008				2009				2010				2011				12	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	
A1.3.8.	• Organise awareness workshop to inform the local populations about the early warning system for floods and the management of the Lery dam							X											
A1.3.9.	• Conduct study on floods that occurred during project life in comparison with the baseline situation								X										
Outputs / Results corresponding to Objective n° 2: Develop a framework convention for the joint management of the Sourou river valley																			
R2.1: Convention for the joint management of the Sourou river valley developed and signed																			
A1.4.1.	• Prepare a convention for the joint management of the Sourou river valley							X	X	X									
A1.4.2.	• Submit the convention to the two countries for approval										X								
A1.4.3.	• Organize a meeting of the Ministers in charge of Water and Environment of the two countries for the endorsement of the convention											X							
R2.2: Institutional framework for the implementation of the convention established																			
A2.2.1.	• Prepare the institutional framework of the convention and submit it to the two countries for endorsement											X	X						
A2.2.2.	• Organize bilateral Committee meetings to discuss the institutional framework of the convention												X						

Annex D-1c: Budget of Demo Project # DP1: Joint management of a flow release warning system in the Sourou river valley, tributary of Black Volta or Mouhoun

		GEF DP	GEF Core Project	Countrepart Cash	Countrepart Kind	Cofinance 1 Cash/kind	Total
UNEP BUDGET LINE/OBJECT OF EXPENDITURE		US\$	US\$	US\$	US\$	US\$	US\$
1	Project personnel component, including consultants, Administrative support, Volunteers and travels	54100	20000	11000	29500	0	114600
2	Sub-contract component, including MOA, MOU and LOA	0	20000	0	0	0	0
3	Training component including workshops, meetings, conferences	14000	0	10000	18000	0	42000
4	Equipment and premises component	42000	0	8000	18000	35000	103000
5	Miscellaneous component, including: Operation and maintenance of equip., Reporting costs, Sundry, Evaluation	0	10000	0	0	0	10000
TOTAL COSTS		110 100	50 000	29 000	65 500	35 000	269 600

Annex D-2a: Updated Logframe Demo Project # DP2: Installing and comparing technological models of wastewater treatment in the cities of Kara (Togo) and Natitingou (Benin)

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
<p>Project's overall objective: Restore the water quality and improve the living and health conditions of the populations of Kara (Togo) and Natitingou (Benin) through the implementation of appropriate technology of wastewater treatment</p>	<ul style="list-style-type: none"> Reduction in N, P, BOD, etc. and untreated sludge in line with targets by year 2 	<ul style="list-style-type: none"> Project reports Monitoring reports: sewage collection, discharge and treatment Results of biological and chemical analyses 	<ul style="list-style-type: none"> Appropriately skilled personnel available for establishment and operation of the plants Financial resources available Experience and skills of local NGOs and local staff Project capacity to develop and implement successful communication strategy Willingness of local authorities and NGOs to enhance the capacity of their staff 	<ul style="list-style-type: none"> Statistics (baseline and targets) to be defined during the inception phase
	<ul style="list-style-type: none"> Sewage collection increased by at least 50% at the end of year 2 	<ul style="list-style-type: none"> Project reports Monitoring reports: sewage collection, discharge and treatment 		
	<ul style="list-style-type: none"> Capacity of local stakeholders and national institutions in charge of sanitation issues strengthened and population sensitised by year 1 	<ul style="list-style-type: none"> Training material Training reports Project reports 		
<p>Outputs / Results corresponding to Immediate Objective n° 1: Establish project management bodies and improve knowledge of local administrations and other stakeholders on sanitation issues</p>				
Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
<p>1.1 Demo project management established, including co-operation mechanisms with national institutions and key stakeholders</p>	<ul style="list-style-type: none"> Demo project management bodies established and functional by year 1 	<ul style="list-style-type: none"> NFP reports Contracts signed by personnel Acts of nomination Minutes of meetings 	<ul style="list-style-type: none"> Commitment of local & central authorities 	

Annex D-2: Updated logframe, activities, work plan and budget (DP-2)

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
	<ul style="list-style-type: none"> • Conventions of collaboration prepared, approved by the 2 governments and signed with local authorities, national institutions and relevant NGOs • Baseline situation and quantified targets defined during project inception phase 	<ul style="list-style-type: none"> • Signed conventions • NFP, NIC reports • Inception report and M&E plan (demo project 3) • Study reports 	<ul style="list-style-type: none"> • Willingness of national and local authorities to establish a coordination mechanism 	
1.2 Capacity of local stakeholders and national institutions for the promotion of good practices and behaviours favourable to the protection of water quality and the promotion of human health strengthened	<ul style="list-style-type: none"> • Training needs identified; training plan developed and implemented for technical staff, local councillors and NGOs in the two countries by year 1 • Categories and number of staff trained in the key institutions and NGOs by year 1 	<ul style="list-style-type: none"> • Training material • Training reports • Project reports • Workshops and training sessions reports 	<ul style="list-style-type: none"> • willingness of local institutions, local councillors and NGOs to improve their knowledge 	
Outputs / Results corresponding to Immediate Objective n° 2: Equip the town of Kara with appropriate systems of collection and treatment plant for wastewater and other effluents and develop similar proposal for the city of Natitingou				
2.1 Appropriate systems of collection and treatment plants for wastewater and other effluents produced by inhabitants of Kara in place	<ul style="list-style-type: none"> • 1 pilot macrophyte lagoons installed in the city of Kara and used for sewage treatment by year 2 • Volume of sewage collected and treated per month • Training gaps to operate and maintain macrophytes lagoon identified and training packages developed and implemented for technical staff and NGOs by year 1 	<ul style="list-style-type: none"> • Lagoons designs • Project reports • Handover reports • Project reports • Monitoring reports • Training material • Training reports • Project reports 	<ul style="list-style-type: none"> • Appropriately skilled personnel available for establishment and operation of the plants • Willingness of local authorities and NGOs to enhance the capacity of their staff 	

Annex D-2: Updated logframe, activities, work plan and budget (DP-2)

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
	<ul style="list-style-type: none"> Appropriate mechanism for long term operation of the lagoon defined and approved by local councillors by year 2 	<ul style="list-style-type: none"> Project reports and documents Minutes of meetings 	<ul style="list-style-type: none"> Commitment of local & central authorities 	
2.2 Effects of a better sanitation system on water and environment monitored	<ul style="list-style-type: none"> Quality of un-treated and treated wastewater tested and impacts on groundwater evaluated by certified laboratories on regular basis 	<ul style="list-style-type: none"> Project reports Results of biological and chemical analyses 	<ul style="list-style-type: none"> Involvement and capacities of national water quality laboratories 	
	<ul style="list-style-type: none"> Water and wastewater quality (N, P, BOD, etc.) monitored on regular basis and compared to baseline situation 			
2.3 Treated wastewater reused for agricultural purposes	<ul style="list-style-type: none"> At least 5 ha of plantation are irrigated by treated wastewater 	<ul style="list-style-type: none"> Project reports Statistics on agricultural yields 	<ul style="list-style-type: none"> Project capacity to facilitate the re-use of treated wastewater 	
2.4 Proposal for the construction of wastewater treatment plant in the city of Natitingou prepared	<ul style="list-style-type: none"> Sanitation monograph of Natitingou prepared 	<ul style="list-style-type: none"> Project reports Report on baseline situation Approved proposal NFP and PMU reports 	<ul style="list-style-type: none"> Involvement and capacities of national partners 	
	<ul style="list-style-type: none"> Technical studies for the construction of wastewater treatment plant conducted 			
	<ul style="list-style-type: none"> Project document prepared and approved by UNEP/DGEF 			
2.5 Inhabitants of the 2 cities are sensitised on sanitation and related health issues	<ul style="list-style-type: none"> Awareness raising material developed and awareness raising campaigns planned and conducted in the 2 cities by year 1 	<ul style="list-style-type: none"> Awareness raising packages Awareness raising campaigns reports Project reports 	<ul style="list-style-type: none"> Project capacity to develop and implement successful communication strategy Experience and skills of local NGOs 	

Annex D-2b: Detailed activities and work plan corresponding to the Demo Project # DP2: Installing and comparing technological models of wastewater treatment in the cities of Kara (Togo) and Natitingou (Benin)

Code	Activities	2008				2009				2010				2011				12
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
Outputs / Results corresponding to Objective n° 1: Establish project management bodies and improve knowledge of local administrations and other stakeholders on sanitation issues																		
R1.1: Demo project management established, including co-operation mechanisms with national institutions and key stakeholders																		
A1.1.1.	• Establish the Demo Project Management Units in Togo and Benin	X	X															
A1.1.2.	• Prepare and sign LOU/cooperation agreement with governments of Togo and Benin on the implementation of the Demo project	X	X															
A1.1.3.	• Negotiate, sign and implement a convention of collaboration with local NGOs exerting respectively in the regions of Kara and Natitingou		X															
A1.1.4.	• Negotiate, sign and implement a convention of collaboration with national water quality laboratories			X														
A1.1.5.	• Establish Demo project bilateral committee		X															
A1.1.6.	• Organise at least 3 bilateral meetings on project implementation		X			X			X									
A1.1.7.	• Conduct a study on the baseline situation and prepare project M&E plan		X															
A1.1.8.	• Prepare a detailed inception report			X														
A1.1.9.	• Submit the inception report and M&E plan to the bilateral committee for approval				X													
R1.2: Capacity of national institutions for the promotion of good practices and behaviours favourable to the protection of water quality and the promotion of human health strengthened																		
A1.2.1.	• Identify training needs of national institutions, local councillors and NGOs and develop training material			X														
A1.2.2.	• Organise national training sessions on the promotion of good practices and behaviours favourable to the protection of water quality and the promotion of human health			X	X													
Outputs / Results corresponding to Immediate Objective n° 2: Equip the town of Kara with appropriate systems of collection and treatment plant for wastewater and other effluents and develop similar proposal for the city of Natitingou																		
R2.1: Appropriate systems of collection and treatment plants for wastewater and other effluents produced by inhabitants of Kara in place																		
A2.1.1.	• Update site investigations and construct 1 pilot macrophyte lagoons in the city of Kara					X	X	X	X	X								
A2.1.2.	• Provide technical support for the connection to the pond of the wastewater network funded by SIAPP						X	X										
A2.1.3.	• Operate and maintain the treatment plant								X	X								
A2.1.4.	• Identify training needs of technical staff and develop training material to operate and maintain macrophytes lagoon						X											
A2.1.5.	• Organise national training sessions on how to operate and maintain macrophytes lagoon						X											
A2.1.6.	• Define an appropriate mechanism for long term operation of the lagoons										X							
A2.1.7.	• Submit the long term mechanism to local councillors for approval											X						

Annex D-2: Updated logframe, activities, work plan and budget (DP-2)

Code	Activities	2008				2009				2010				2011				12
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
R2.2: Effects of a better sanitation system on water and environment monitored																		
A2.2.1.	• Identify experimental sites for the monitoring of water and wastewater quality (biological and chemical analyses: N, P, BOD, COD, etc.)											X						
A2.2.2.	• Define and implement a protocol for the monitoring of water and wastewater quality											X						
A2.2.3.	• Document the monitoring of water and wastewater quality											X		X				
A2.2.4.	• Conduct a study on the evolution of biological and chemical parameters: N, P, BOD, COD, etc.											X						
R2.3: Treated wastewater reused for agricultural purposes																		
A2.3.1.	• Conduct a feasibility study on the reuse of treated wastewater for agricultural purposes											X						
A2.3.2.	• Upon results of A2.3.1, irrigate 5 ha of plantation and monitor agricultural yields											X						
R2.3: Proposal for the construction of wastewater treatment plant in the city of Natitingou prepared																		
A2.4.1.	• Facilitate the preparedness and signature of cooperation agreement between SIAAP and the Municipality of Natitingou											X						
A2.4.2.	• Prepare the sanitation monograph of Natitingou											X						
A2.4.3.	• Identify pilot areas and conduct technical/feasibility studies for the construction of wastewater treatment plant												X					
A2.4.4.	• Upon results of A2.4.2, prepare detailed proposal for the construction of wastewater treatment plant in the city of Natitingou												X					
A2.4.5.	• Submit the proposal to PMU, National partners and UNEP/DGEF for approval													X				
R2.3: Inhabitants of the 2 cities are sensitised on sanitation and related health issues																		
A2.5.1.	• Develop replicable modules and other awareness raising campaigns material relevant to sanitation and related health issues												X					
A2.5.2.	• Organise at national level, awareness raising campaigns on sanitation and related health issues													X				

Annex D-2c: Budget of Demo Project # DP2: Installing and comparing technological models of wastewater treatment in the cities of Kara (Togo) and Natitingou (Benin)

		GEF DP	GEF Core Project	Countrepart	Countrepart	Cofinance 1	Total
				Cash	Kind	Cash/kind	
UNEP BUDGET LINE/OBJECT OF EXPENDITURE		US\$	US\$	US\$	US\$	US\$	US\$
1	Project personnel component, including consultants, Administrative support, Volunteers and travels	58700	10000	8000	32200	10000	108900
2	Sub-contract component, including MOA, MOU and LOA	126000	0	21000	59600	13000	219600
3	Training component including workshops, meetings, conferences	40000	0	27500	22000	9000	98500
4	Equipment and premises component	30000	0	7000	16000	5000	58000
5	Miscellaneous component, including: Operation and maintenance of equip., Reporting costs, Sundry, Evaluation	0	10000	0	0	0	10000
TOTAL COSTS		254 700	20 000	63 500	129 800	37 000	495 000

Annex D-3a: Updated Logframe of the Demo Project # DP3: Restoring and protecting the river beds of the Black Volta and its tributaries through participative campaigns of reforestation

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
Project's overall objective: Sustainability of water resources in the Black Volta River basin through participative campaigns of reforestation	• Sediment yield into selected rivers reduced by 20% (by year 3)	• Reports of bathymetric measures • Hydrological data	<ul style="list-style-type: none"> • Project capacity to develop and implement successful communication strategy • Commitment of local & central authorities • Motivation of civil servants • Participation of populations 	<ul style="list-style-type: none"> • To be confirmed during the inception phase • To be confirmed during the inception phase
	• Water retention in the forest area increased by 25% (by year 3)	• Reports of hydrological measures		
	• Forest landscapes of the pilot plots targeted by the project are restored and protected by year 3	• NFP, NIC, Project and Field visits reports		
	• Surfaces burned by bush fires in selected areas are reduced by 50% (by year 3)	• PMU, NFP, NIC, Project and Field visits reports		
	• Capacity of local stakeholder and national institutions in charge of forest and water resources management strengthened	• Training packages • Workshops, Awareness raising campaigns and training sessions reports		
Outputs / Results corresponding to Immediate Objective n° 1: Establish project management bodies and reinforce the capacity of stakeholders involved in forest and water resources issues				
Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
1.1 Demo project management established including project monitoring and evaluation plan	• Demo project management bodies established and functional by year 1	<ul style="list-style-type: none"> • NFP reports • Contracts signed by personnel • Acts of nomination • Minutes of meetings 	<ul style="list-style-type: none"> • Commitment of local & central authorities • The two countries failing to participate fully and actively to ensure project success 	
	• Convention of collaboration prepared and signed with governments of Côte d'Ivoire and Ghana by year 1	• Signed conventions		

Annex D-3: Updated logframe, activities, work plan and budget (DP-3)

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
	<ul style="list-style-type: none"> Baseline situation and quantified targets defined during project inception phase 	<ul style="list-style-type: none"> NFP, NIC reports Inception report and M&E plan (demo project 3) Study reports 		
1.2 Capacity of national institutions in charge of forest and water resources management strengthened	<ul style="list-style-type: none"> Training needs for forest and water resources management identified; training plan developed and implemented for technical staff in the two countries by year 1 	<ul style="list-style-type: none"> NFP, NIC reports Training packages Training reports 	<ul style="list-style-type: none"> Project capacity to develop and implement successful communication strategy Motivation of civil servants Willingness of national and local authorities to enhance the capacity of their staff 	
	<ul style="list-style-type: none"> Categories and number of staff trained in the key institutions by year 1 	<ul style="list-style-type: none"> Workshops and training sessions reports 		
1.3 Local stakeholders are conscious of forest and water resources issues and involved in their management/protection	<ul style="list-style-type: none"> Awareness raising material on forest and water resources management developed and awareness raising campaigns planned and conducted in the two countries by year 1 	<ul style="list-style-type: none"> NFP, NIC reports Awareness raising packages Awareness raising campaigns reports 	<ul style="list-style-type: none"> Project capacity to develop and implement successful communication strategy Participation of populations 	
	<ul style="list-style-type: none"> Number and categories of stakeholders involved in the project activities 	<ul style="list-style-type: none"> NFP, NIC reports Local stakeholder groups 		
Outputs / Results corresponding to Immediate Objective n° 2: Restoration/protection of pilot plots of land through experimental and demonstrative actions				
2.1 A limited number of hot spots of river beds restored	<ul style="list-style-type: none"> Volume of sediments removed from the most critical hot spots of river beds by year 1 	<ul style="list-style-type: none"> NFP, NIC, Project and Field visits reports 	<ul style="list-style-type: none"> Awareness and participation of populations and local authorities 	
	<ul style="list-style-type: none"> 10 km of river embankment restored by year 1 	<ul style="list-style-type: none"> NFP, NIC, Project and Field visits reports 		
2.2 The forest landscapes of the pilot plots targeted by the project are restored/protected	<ul style="list-style-type: none"> 200 hectares of selected plots of lands reforested and maintained by year 3 	<ul style="list-style-type: none"> NFP, NIC reports Projects reports Field visits reports 	<ul style="list-style-type: none"> Commitment of Forest Companies Involvement of riparian populations and local authorities 	<ul style="list-style-type: none"> 100 ha financed by Ivorian Forest Companies and 100 ha financed by GEF: approx. 50 ha in each Country
	<ul style="list-style-type: none"> Water retention in the forest area increased by 25% (by year 3) 	<ul style="list-style-type: none"> Reports of hydrological measures 		

Annex D-3: Updated logframe, activities, work plan and budget (DP-3)

Intervention Logic	Objectively verifiable indicators	Sources of verification	Assumptions and risks	Observations
2.3 The surfaces burned by bush fires in selected areas are reduced	<ul style="list-style-type: none"> • 50 km of firewalls realized around plot of yards reforested and forests gallery by year 3 	<ul style="list-style-type: none"> • NFP, NIC, Project and Field visits reports 	<ul style="list-style-type: none"> • Awareness and participation of populations and local authorities 	
	<ul style="list-style-type: none"> • Number of hectares burned reduced by 50% (by year 3) 	<ul style="list-style-type: none"> • NFP, NIC, Project and Field visits reports 		

Annex D-3b: Detailed activities and work plan corresponding to the Demo Project # DP3: Restoring and protecting the river beds of the Black Volta and its tributaries through participative campaigns of reforestation

Code	Activities	2008				2009				2010				2011				12
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
Outputs / Results corresponding to Objective n° 1: Establish project management bodies and reinforce the capacity of stakeholders involved in forest and water resources issues																		
R1.1: Demo project management established including project monitoring and evaluation plan																		
A1.1.1.	• Establish the Demo Project Management Units in Côte d'Ivoire and Ghana	X	X															
A1.1.2.	• Prepare and sign LOU/cooperation agreement with governments of Côte d'Ivoire and Ghana on the implementation of the Demo project	X	X															
A1.1.3.	• Establish Demo project bilateral committee		X															
A1.1.4.	• Organise at least 3 bilateral meetings on project implementation		X			X			X									
A1.1.5.	• Conduct a study on the baseline situation and prepare project M&E plan			X														
A1.1.6.	• Prepare the inception report			X														
A1.1.7.	• Submit the inception report and M&E plan to the bilateral committee for approval				X													
R1.2: Capacity of national institutions in charge of forest and water resources management strengthened																		
A1.2.1.	• Identify training needs of national institutions for forest and water resources management and develop training material				X													
A1.2.2.	• Organise national training sessions on forest and water resources management				X													
R1.3: Local stakeholders are conscious of forest and water resources issues and involved in their management/protection																		
A1.3.1.	• Develop replicable modules and other awareness raising campaigns material relevant to the sensitization and training of local stakeholders on forest and water resources management				X													
A1.3.2.	• Organise at national level, awareness raising campaigns on forest and water resources management for local stakeholders				X		X			X								
Outputs / Results corresponding to Objective n° 2: Restoration/protection of pilot plots of land through experimental and demonstrative actions																		
R2.1: A limited number of hot spots of river beds restored																		
A2.1.1.	• Select and dredge hot spots of river beds					X												
A2.1.2.	• Restore 10 km of river embankment						X											
A2.1.3.	• Monitor water flow duration in selected hot spots of river beds								X									
A2.1.4.	• Conduct bathymetric campaigns and monitor sediments yield into the river at least once a semester								X									
R2.2: The forest landscapes of the pilot plots targeted by the project are restored/protected																		
A2.2.1.	• Reforest 200 hectares usable for fuel wood, construction (100 ha financed by wood industrials and 100 hectares financed by the project with local populations)						X	X	X									
A2.2.2.	• Maintain the new parcels of forest						X											

Annex D-3: Updated logframe, activities, work plan and budget (DP-3)

Code	Activities	2008				2009				2010				2011				12
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
A2.2.3.	• Develop plan for the management of the new parcels of forest						X											
A2.2.4.	• Select 2 experimental sites per country: 1 in the reforested area and 1 as witness site						X											
A2.2.5.	• Equip the selected experimental sites and measure hydrologic parameters on regular basis (flow, infiltration, evaporation, precipitation, etc.)							X										
A2.2.6.	• Conduct comparative study on the evolution of hydrologic parameters in the experimental sites (flow, infiltration, evaporation, water retention, etc.)							X										
A2.2.7.	• Select, adjust and apply soil loss model by using as inputs experimental data							X										
R2.3: The surfaces burned by bush fires are reduced																		
A2.4.1.	• Make 50 km of firewalls around the plot of yards reforested and around gallery forests										X							
A2.4.2.	• Organise at national level, awareness raising campaigns on bush fires impacts										X							
A2.4.3.	• Establish and train local committees of bush fires control										X		X					

Annex D-3c: Budget of Demo Project # DP3: Restoring and protecting the river beds of the Black Volta and its tributaries through participative campaigns of reforestation

UNEP BUDGET LINE/OBJECT OF EXPENDITURE		GEF DP	GEF Core Project	Countrepart	Countrepart	Cofinance 1	Total
		US\$	US\$	Cash US\$	Kind US\$	Cash/kind US\$	US\$
1	Project personnel component, including consultants, Administrative support, Volunteers and travels	87400	20000	0	31700	0	139100
2	Sub-contract component, including MOA, MOU and LOA	114000	0	84000	41000	0	239000
3	Training component including workshops, meetings, conferences	23000	0	16000	16000	0	55000
4	Equipment and premises component	39000	0	10000	16000	0	65000
5	Miscellaneous component, including: Operation and maintenance of equip., Reporting costs, Sundry, Evaluation	0	10000	0	0	0	10000
TOTAL COSTS		263 400	30 000	110 000	104 700	0	508 100

8.5 Annex E: Project Monitoring and Evaluation Plan

1. Project Inception Phase (3 months)

The first meeting of the Project Steering Committee (PSC) will double as the Inception Workshop for the project and will therefore include the following participants: National focal points from all GEF-eligible countries (Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali and Togo) and Focal Points from the Volta River Basin Authority for the participating countries will both be represented in order to include experts from both Environment and Water resources ministries within the project.

Also the PSC will include representatives of the implementing agencies (UNEP), representatives of the executing agencies (UNOPS and UCC-Water). Representatives from GCLME, GEF Niger Project, UNESCO/PHI, ECOWAS/WRCU and IUCN, regional or local NGOs and the private sector will be invited to have observers sit at the Steering Committee Meetings. The Regional Project Coordinator will serve as the Secretary to the Steering Committee. The Committee will be chaired by a national representative (on a rotational basis).

This Project will have a three month inception period prior to the first Steering Committee/Inception Meeting. This is due to the extended period of time that lapsed between preparation of the project document (with activities and demonstrations) and the final CEO Endorsement from GEFSEC. During this period several additional projects and initiatives have commenced in the region which need to be addressed in the re-visiting of activities to ensure they are complementary. The outcome of the Inception period will be the Inception Document to be presented and adopted at the first Steering Committee/Inception Meeting. The overall objective of the Inception Workshop is to present and adopt the Inception Document for the project which will include:

- i. Revised Log-frame with concrete and measurable Indicators;
- ii. Revised List of activities, with particular discussion on the complimentary and co-ordination of activities within the project with the work-plan for the Volta Basin Authority, and numerous other related initiatives (IUCN, ECOWAS/WRCU, French GEF, WMO, etc)
- iii. Revised Demo Projects;
- iv. The Monitoring and Evaluation Plan of the project, including process and stress reduction indicators;
- v. The revised baseline data for the M&E indicators, and indicate where additional information may be required;
- vi. The revised UNEP budget of the project, including detailed breakdown of co-financing and the proposed method for their tracking throughout the project life-span;
- vii. The Work-plan for the Project and the work-plan and timetable for 2008;
- viii. To present and agree on the execution arrangements of the project, the roles of the focal points, national implementation committees, experts etc;
- ix. To provide a detailed overview of UNEP reporting and monitoring and evaluation (M&E) requirements, with particular emphasis on the Annual Project Implementation Reviews (PIRs) and related documentation, the Annual Project Report (APR), as well as mid-term and final evaluations.

The Inception Workshop will also provide an opportunity for all parties to understand their roles, functions, and responsibilities within the project's decision-making structures, including reporting and communication lines, and conflict resolution mechanisms. The Terms of Reference for project staff and decision-making structures will be discussed again, as needed, in order to clarify for all, each party's responsibilities during the project's implementation phase.

Table 1 provides an indicative monitoring and evaluation work plan for the Volta River Basin project. Table 2 provides the list of indicators for the project. Baseline data will be finalized during the inception period of the project.

The tables 2, 3, 4 and 5 list the principal indicators showing improvements in Process and Stress Reduction relative to Project activities and deliverables. Process and Stress Reduction tables capture the primary indicators from the Log-Frame.

These tables and their indicators will be reviewed at the Inception stage and endorsed by the PSC. Environmental status indicators, reflecting SAP targets and agreements, will also be identified, along with specific arrangements for their long-term monitoring beyond the lifespan of the project. Following endorsement, the PMU will develop a national monitoring template for Impact Measurement which directly relates to the requirements for International Water indicator monitoring and this will be adopted and implemented within the first six months so as to allow monitoring to proceed at the national level during or immediately after the Inception Phase. This will provide measured and verified data for the overall M&E plan which will confirm Project delivery and confirm successful achievement of International Water Indicator targets in Process and Stress Reduction.

2. Monitoring Responsibilities and Events

The Inception Workshop will present a Schedule of M&E-related meetings and reports for project. This will be developed by UNOPS, UCC-Water, and the PMU, with comments provided by UNEP/DGEF.

Such a schedule will include: (i) tentative time frames for PSC and (ii) project related Monitoring and Evaluation activities.

Day to day monitoring of implementation progress will be the responsibility of the PMU based on the Project's Annual Work Plan and its indicators with the support of all responsible co-executing agencies. The PMU will inform UNOPS and the UNEP/DGEF Task Manager of any delays or difficulties faced during implementation so that the appropriate support or corrective measures can be adopted in a timely and remedial fashion.

The PMU will fine-tune the progress and performance/impact indicators of the Project at the Inception Workshop in consultation with UNOPS and the UNEP/DGEF Task Manager. Specific targets for the first year implementation progress indicators together with their means of verification will be developed at this Workshop. These will be used to assess whether implementation is proceeding at the intended pace and in the right direction and will form part of the Annual Work Plan. Targets and indicators for subsequent years would be defined annually as part of the internal evaluation and planning processes undertaken by the PMU, and agreed with the Executing and Implementing Agency.

Periodic monitoring of implementation progress will be undertaken by UNOPS and the PMU through the provision of half-yearly reports submitted to UNEP DGEF.

Annual Monitoring will occur through the preparation of the APR to be reviewed by the PSC. The APR will be drafted by the PMU, based on the activity and demonstration reports by the co-executing agency.

3. Project Monitoring Reporting

The Project Manager in conjunction with executing agency will be responsible for the preparation and submission of the following reports that form part of the monitoring process. Items (a) through (e) are mandatory and strictly related to monitoring, while (f) and (g) have a broader function and the frequency and nature is project specific to be defined throughout implementation.

(a) Inception Report

The project inception report will be revised immediately following the Inception Workshop. It will include a detailed First Year Work Plan divided in quarterly time-frames detailing the activities and progress indicators that will guide implementation during the first year of the Project. The Report will also include the detailed project budget for the first full year of implementation, prepared on the basis of the Annual Work Plan, and including any monitoring and evaluation requirements to effectively

measure project performance during the targeted 12 months time-frame.

The Inception Report will include a more detailed narrative on the institutional roles, responsibilities, coordinating actions and feedback mechanisms of project related partners. In addition, a section will be included on progress to date on project establishment and start-up activities and an update of any changed external conditions that may affect project implementation, including and unforeseen or newly arisen constraints.

When finalized, the report will be circulated to project counterparts who will be given a period of one calendar month in which to respond with comments or queries. Prior to this circulation of the inception report, the executing agencies and implementing agency will review the document.

(b) Half-yearly Progress Report (HPR), Annual Project Report (APR) and Project Implementation Review (PIR)

The HPR is a self-assessment report by project management to the UNEP Office and provides them with input to the reporting process as well as forming a key input for the Steering Committee. The PIR is an annual monitoring process mandated by the GEF, to be conducted by the UNEP/DGEF Task Manager in consultation with UNOPS, UCC-Water and the PMU. It has become an essential monitoring tool for project managers and offers the main vehicle for extracting lessons from ongoing projects. In addition, UNEP DGEF Task Manager, based on the knowledge of the project progress, will submit to UNEP Evaluation and Oversight Unit an annual project report, which is a UNEP self-evaluation tool.

An APR/PIR is prepared on an annual basis following the first 12 months of project implementation. The purpose of the APR/PIR is to reflect progress achieved in meeting the project's Annual Work Plan and assess performance of the project in contributing to intended outcomes through outputs and partnership work. The APR/PIR is discussed in the PSC meeting so that the resultant report represents a document that has been agreed upon by all of the primary stakeholders.

The annual programme/project report (APR) is designed to obtain the independent views of the main stakeholders of a project on its relevance, performance and the likelihood of its success. The APR form has two parts. Part I asks for a numerical rating of project relevance and performance as well as an overall rating of the project. Part II asks for a textual assessment of the project, focusing on major achievements, early evidence of success, issues and problems, recommendations and lessons learned. The APR will be prepared by the Project Coordinator, after consultation with the relevant stakeholders, and will be submitted to UNEP-Nairobi. The stakeholder review will focus on the logical framework matrix and the performance indicators. Stakeholders could include a letter to the UNEP-Nairobi that they have been consulted and their views taken into account.

The items in the APR/PIR to be provided by UNEP GEF include the following:

- An analysis of project performance over the reporting period, including outputs produced and, where possible, information on the status of the outcome;
- The constraints experienced in the progress towards results and the reasons for these;
- The three (at most) major constraints to achievement of results;
- Annual Work Plans and related expenditure reports;
- Lessons learned;
- Clear recommendations for future orientation in addressing key problems in lack of progress.

UNEP analyses the individual APR/PIRs by focal area, theme and region for common issues/results and lessons. The Reports are also valuable for the Independent Evaluators who can utilise them to identify any changes in project structure, indicators, work plan, etc. and view a past history of delivery and assessment.

(d) Periodic Thematic Reports

As and when called for by executing and implementing agencies, the project team will prepare Specific Thematic Reports, focusing on specific issues or areas of activity. The request for a Thematic Report will be provided to the project team in written form and will clearly state the issue or activities

that need to be reported on. These reports can be used as a form of lessons learnt exercise, specific oversight in key areas, or as troubleshooting exercises to evaluate and overcome obstacles and difficulties encountered. The executing and implementing agencies are requested to minimize their requests for Thematic Reports, and when such are necessary will allow reasonable timeframes for their preparation by the project team.

(e) Project Terminal Report

During the last three months of the project the project team will prepare the Project Terminal Report. This comprehensive report will summarize all activities, achievements and outputs of the Project, lessons learnt, objectives met, or not achieved structures and systems implemented, etc. and will be the definitive statement of the Project's activities during its lifetime. It will also lay out recommendations for any further steps that may need to be taken to ensure sustainability and replicability of the Project's activities.

(f) Technical Reports (project specific- optional)

Technical Reports are detailed documents covering specific areas of analysis or scientific specializations within the overall project. Technical Reports will be prepared by the Project Management Unit and external consultants and should be comprehensive, specialized analyses of clearly defined areas of research within the framework of the project and its sites. These technical reports will represent, as appropriate, the project's substantive contribution to specific areas, and will be used in efforts to disseminate relevant information and best practices at local, national and international levels.

(g) Project Publications (project specific- optional)

Project Publications will form a key method of crystallizing and disseminating the results and achievements of the Project. These publications may be scientific or informational texts on the activities and achievements of the Project, in the form of journal articles, multimedia publications, etc. These publications can be based on Technical Reports, depending upon the relevance, scientific worth, etc. of these Reports, or may be summaries or compilations of a series of Technical Reports and other research. The project team will determine if any of the Technical Reports merit formal publication, and will also, in consultation with executing and implementing agencies, the governments and other relevant stakeholder groups, plan and produce these publications in a consistent and recognizable format. Any publications need prior clearance from both implementing and executing agencies. Project resources will need to be defined and allocated for these activities as appropriate and in a manner commensurate with the project's budget.

4. INDEPENDENT EVALUATION

The project will be subjected to at least two independent external evaluations as follows:

(i) *Mid-term Evaluation and Mid-Term Tripartite Review*

An independent Mid-Term evaluation will be undertaken at the end of the second year of implementation. The Mid-Term evaluation will determine progress made towards the achievement of outcomes and will identify course correction if needed. It will focus on the effectiveness, efficiency and timeliness of project implementation; will highlight issues requiring decisions and actions; and will present initial lessons learned about project design, implementation and management. Findings of this review will be incorporated as recommendations for enhanced implementation during the final half of the project's term. The organization, terms of reference and timing of the mid-term evaluation will be decided after consultation between the parties to the project document. The Terms of Reference for this Mid-term evaluation will be prepared by UNEP Evaluation and Oversight Unit.

The Volta basin project will be subjected to Tri-Partite Review (TPR) once during the project (just after the MTR). The Tri-Partite Review (TPR) is a policy-level meeting of the parties directly involved in the implementation of a project. The participants include the government, UNEP, project management, the direct beneficiaries, and other stakeholders. On these occasions, the Project Coordinator will submit an updated work plan (if required) and the latest Annual Project Report

(APR), and formulate recommendations for eventual adjustments of strategies and activities. A draft APR shall be prepared at least two months in advance of the TPR to allow review by UNEP prior to the meeting. The Executing Agency assures that the recommendations of the TPR are carried out. Annual TPRs are not required as the Steering Committee meetings are expected to address many of the issues that would normally be addressed in a TPR.

(ii) Final Evaluation

An independent Final Evaluation will take place three months prior to the end of the project. The final evaluation will also look at impact and sustainability of results, including the contribution to capacity development and the achievement of global environmental goals. The Final Evaluation will also provide recommendations for follow-up activities. The Terms of Reference for this Mid-term evaluation will be prepared by UNEP-Evaluation and Oversight Unit in line with the GEF evaluation requirements.

Audit Clause

UNOPS will provide UNEP with quarterly financial reports as well as certified annual financial statements with an audit of the financial statements relating to the status of UNEP (including GEF) funds according to the established procedures to be set out in the project document. The Audit will be conducted by the legally recognized auditor, or by a commercial auditor.

Table 1: Indicative Monitoring and Evaluation Work Plan and corresponding budget

Activity/Reporting	Time/Frequency	Responsible Partner(s)	Budget USD ⁵	
			GEF	Other
Inception Workshop	Within the first 3 months of project start up	PMU, executing agencies;	40,000	
Final inception report	Immediately following the IW/Steering Committee Meeting	PMU and executing agencies	10,000	
Measurement of initial baseline and means of verification for project indicators	Start, middle and end of the project	PMU, executing agencies, NFPs, NICs, Task Force	50,000	
Project Implementation Plan (PIP) review of work-plan, timetable and budget.	Project Commencement	PMU, executing agencies, NFPs, NICs, Task Force	10,000	
Annual Project Report (APR)	Annually	PMU, executing agencies, NFPs, NICs, Task Force	20,000	
Project Implementation Review (PIR)	Annually	UNEP DGEF (with support of PMU, executing agencies)	20,000	
Half-yearly Progress Reports (HPR) including activity and demonstration reports from each partner	Half-yearly	PMU, executing agencies, NFPs,	20,000	
Steering Committee meetings and reports	Annually	PMU, executing agencies, NFPs,	160,000	
Periodic Thematic Reports, Technical Reports and Project publications	To be determined by the PMU, UNEP and co-executing agencies	Executing/co-executing agencies, PMU	45,000	
Focal Point reports on country activities including minutes of National implementation committee meetings.	Half-yearly and Annual	National Focal Points	10,000	
Independent Mid-term Project Evaluation	Mid-point of project implementation phase	PMU, executing agencies, UNEP	25,000	
Mid-Term Tri-Partite Review (TPR)	Mid-point of project implementation phase	PMU, executing agencies, NFPs, NICs, UNEP	30,000	
Final Independent Project Evaluation	End of project implementation	UNOPS, UNEP	35,000	
Terminal Report	At least one month prior to project termination	PMU, Executing agencies	40,000	
Lessons learned	Annually	PMU, Executing agencies	20,000	
Quarterly financial reports	Quarterly	UNOPS	40,000	
Audit	Annually	UNOPS	65,000	
TOTAL INDICATIVE COST			640,000	
Excluding project team staff time and UNEP staff and travel expenses				

⁵ Excluding Project team salaries

KEY PROCESS, STRESS REDUCTION AND ENVIRONMENTAL INDICATORS

Table 2. Regional Level Process Indicators

Process Indicators/Activity	Parameters measured	Target and Baseline	Means of Verification	Location of Action
TDA revised, finalized and endorsed by the Project Steering committee	<ul style="list-style-type: none"> ▪ Signed TDA by all countries ▪ Number of stakeholders participating in TDA Workshops; ▪ Number of national and regional institutions, organizations, NGO's etc informed of the TDA process ▪ Number of publications resulting from TDA 	<p>Target: TDA endorsed by the project Steering committee by the end of year 2</p> <p>Baseline: Preliminary TDA prepared under PDF-B phase of the project.</p>	PSC Meeting reports TDA Workshop Reports FP, NIC, APR, PIR and HYP reports	Regional
SAP drafted, finalized and endorsed at ministerial level (Water and Environment Ministers)	<ul style="list-style-type: none"> ▪ Signed SAP by all countries ▪ Number of stakeholders participating in SAP Workshops; ▪ Number of national and regional institutions, organizations, NGO's etc informed of the SAP process ▪ Finance strategy in place for long-term SAP implementation 	<p>Target: SAP endorsed at ministerial level by the end of year 4</p> <p>Baseline: No SAP exists for Volta River Basin</p>	PSC Meeting reports FP and NIC reports SAP Workshop Reports	Regional
Volta Basin Authority (VBA) adopt SAP into their work plan as mechanism for the implementation of the Volta River Basin Convention	<ul style="list-style-type: none"> ▪ SAP adopted into VBA work-plan and implemented 	<p>Target: By end of year 4</p> <p>Baseline: Volta River Basin Authority established in 2007 but with no SAP to implement or other strategic planning of activities based on agreed priorities</p>	Reports of the VBA meetings PSC Meeting reports	Regional
Ministries of environment and water resources are both represented in the Project Steering Committee	<ul style="list-style-type: none"> ▪ Representatives from both environment and water resources represented in the Project Steering Committee and therefore contribute to all project activities (TDA, SAP, APNP-VRB, demo's etc) 	<p>Target: By end of month 6</p> <p>Baseline: Original project proposed only GEF focal points and did not include representatives from Ministries of Water Resources. Volta River Basin Authority on the other hand includes only representatives from Water Resource Ministries.</p>	PSC Meeting reports Acts of nomination	Regional

Process Indicators/Activity	Parameters measured	Target and Baseline	Means of Verification	Location of Action
Project database developed and updated at regional and national levels	<ul style="list-style-type: none"> Establishment of database All data generated by project incorporated Database updated on a regular basis (min. once per month) 	Target: Project database developed by year 1 Baseline: No database for project exists.	Review of database	Regional
Feasibility study of the regional Volta Basin Observatory completed and approved by the VBA	<ul style="list-style-type: none"> Feasibility study drafted with full participation of all relevant stakeholders Feasibility study approved by VBA and funding secured for establishment 	Target: By end of Year 3 Baseline: Volta Basin Observatory to be established, with funding by French GEF	VBA and PMU reports PSC Meeting reports HYP reports	Regional
At least 2 thematic studies carried out on water and related natural resources of the Volta River Basin	<ul style="list-style-type: none"> No of stakeholder groups participate in design and implementation of thematic studies No of publications/reports printed and disseminated 	Target: By year 3 Baseline: Thematic studies to be identified will fill in gaps identified by TDA and national experts	PSC Meeting reports PMU reports HYP reports Thematic study reports and publications	Regional
All relevant stakeholders participate in project activities and have access to project reports, publications, database, etc	<ul style="list-style-type: none"> No of stakeholder groups participate in all workshops and meetings No of stakeholder groups with access to all reports and outputs of the project (via website, CD's and printed reports) 	Target: Throughout project life-span and beyond Baseline: None	PSC Meeting reports TDA, SAP and APNP-VRB Workshop Reports FP, NIC, APR, PIR and HYP reports	Regional
Demonstrations				
3 Demo projects executed resulting in stress reduction (see demo logframe) and analyzed for their replicability	<ul style="list-style-type: none"> MOUs for Demo projects signed Stress reduction indicators achieved (see below) Lessons learned from demos disseminated and incorporated into SAP and APNP-VRB Replication strategies with funding mechanisms in place developed for all demonstrations 	Target: By year 4 Baseline: None	PSC Meeting reports Demo Reports FP, NIC, APR, PIR and HYP reports	Regional
Demo 1. Joint management of a flow release warning system in the Sourou river valley (tributary of Black Volta or Mouhoun)				
Hydrometric and rain gauge networks reinforced and relevant data collected, monitored and published on yearly basis	<ul style="list-style-type: none"> Hydrometric and rain gauge stations are installed, retrofitted or equipped for remote transmission of data and functional Hydrometric and precipitation database updated, data analyzed and published Historic floods impacts analysis and documented 	Target: By year 1 and ongoing Baseline: HYDRACCESS (IRD database), Existing data and studies on historic floods	PSC Meeting reports Demo Reports FP, NIC, APR, PIR and HYP reports	Mali and Burkina Faso

Process Indicators/Activity	Parameters measured	Target and Baseline	Means of Verification	Location of Action
Tools to mitigate floods impacts and improve Sourou river valley management including Lery dam, developed and implemented by year 3	<ul style="list-style-type: none"> ▪ Hydrological model for the Mouhoun and Sourou rivers developed and appropriated by civil servants in the two countries ▪ Early warning system is developed, validated and appropriated by civil servants in the two countries ▪ Measures to mitigate floods impacts and improve the management of Lery dam defined based on probable scenarios analysis ▪ Floods impacts evaluated, compared to baseline situation and documented 	Target: By year 3 Baseline: To be clarified during the inception phase of the demo project	Thematic reports Demo Reports FP, NIC and APR reports	Mali and Burkina Faso
Framework convention for the joint management of the Sourou river valley prepared and signed by the two countries	<ul style="list-style-type: none"> ▪ Convention prepared and signed by the two countries ▪ Bilateral committee established and functional 	Target: By year 3 Baseline: None	Signed convention Bilateral committee meetings reports Demo Reports FP and APR reports	Mali and Burkina Faso
Demo 2. Installing and comparing technological models of wastewater treatment in the cities of Kara (Togo) and Natitingou (Benin)				
Capacity of local stakeholder and national institutions in charge of sanitation issues strengthened and population sensitised	<ul style="list-style-type: none"> ▪ No of training workshops undertaken, based on key training needs identified ▪ No of people trained ▪ No of awareness raising campaigns organized 	Target: By year 1 Baseline: None	Workshop/training Reports FP, NIC, APR, PIR and HYP reports	Togo and Benin
1 pilot macrophyte lagoon installed in the city of Kara and used for sewage treatment	<ul style="list-style-type: none"> ▪ Existence and functionality of pilot macrophyte lagoons in the city of Kara 	Target: By year 2 Baseline: None	Lagoons designs Project reports Handover reports Management reports	Togo
Demo 3. Restoring and protecting the river beds of the Black Volta and its tributaries through participative campaigns of reforestation				
Capacity of local stakeholder and national institutions in charge of forest and water resources management strengthened	<ul style="list-style-type: none"> ▪ No of training workshops undertaken, based on key training needs identified ▪ No of people trained ▪ No of awareness raising campaigns organized 	Target: By year 1 Baseline: None	Workshop/training Reports FP, NIC, APR, PIR and HYP reports	Côte d'Ivoire and Ghana
Forest landscapes of the pilot plots targeted by the project are restored and protected	<ul style="list-style-type: none"> ▪ 200 hectares of selected plots of lands reforested and maintained 	Target: By year 3 Baseline: None	FP, NIC, APR, PIR and HYP reports	Côte d'Ivoire and Ghana

Table 3. National Level Process Indicators

Process Indicators/Activity	Parameters Measured	Target and Baseline	Means of Verification	Location of Action
APNP-VRB finalised and endorsed at country level	<ul style="list-style-type: none"> Signed APNP-VRB by all countries Number of national and regional institutions, organizations, NGO's etc informed of the APNP-VRB process Finance strategy for implementation of APNP-VRB 	Target: By year 4 Baseline: IWRM plans at various stages of development for each country. APNP-VRB will work in close collaboration and compliment IWRM process in each country	PSC Meeting reports APNP-VRB Workshop Reports FP, NIC, APR, PIR and HYP reports	All participating countries
Key inter-sectoral transboundary issues identified and plan for sectoral harmonisation developed with relevant sectors and agreed for inclusion in IWRM process	<ul style="list-style-type: none"> No of Sectoral plans harmonised No of consultations meeting with relevant sectors No of stakeholder groups involved in meetings 	Target: Harmonization plan for some of the key intersectoral transboundary issues prepared by year 4 Baseline: Inter-sectoral harmonization as part of the IWRM process needed in all countries and ongoing and substantial work	PSC Meeting reports Sectoral meeting reports FP, NIC, APR, PIR and HYP reports	All participating countries
National institutions have the capacity to implement the SAP and APNP-VRB	<ul style="list-style-type: none"> No of training workshops undertaken, based on key training needs identified No of people trained 	Target: By year 4 Baseline: Training needs to implement SAP and APNP-VRB to be identified at start of the project	PSC Meeting reports Workshop Reports FP, NIC, APR, PIR and HYP reports	All participating countries
Involvement of stakeholder in SAP and APNP-VRB process and roles detailed in SAP and APNP-VRB documents	<ul style="list-style-type: none"> Number of stakeholder groups participating in APNP-VRB Workshops; No of stakeholder groups with access to all reports and outputs of the project (via web-site, CD's and printed reports) 	Target: By year 4 Baseline: None	PSC Meeting reports APNP-VRB Workshop Reports FP, NIC, APR, PIR and HYP reports	All participating countries
Institutions have the capacity to manage and monitor data in support of the implementation of SAP and APNP-VRB, and provide coordinated data transfer to VBA observatory	<ul style="list-style-type: none"> No of training workshops undertaken, based on key training needs identified No of people trained 	Target: By year 4 Baseline: No database for SAP/APNP-VRB implementation established	PSC Meeting reports APNP-VRB Workshop Reports FP, NIC, APR, PIR and HYP reports	All participating countries
Demonstrations				
Six national Demo projects are prepared to be submitted to co-funding partners	<ul style="list-style-type: none"> 6 Demo concept documents finalized and approved at national and regional level Financing strategy for the 6 Demo projects developed and approved at national and regional level 	Target: By year 4 Baseline: None	PSC Meeting reports National demo meeting reports FP, NIC, APR, PIR and HYP reports	

Table 4. Stress Reduction Indicators

Stress Reduction Indicators	Parameters Measured	Target and Baseline	Means of Verification	Location of Action
Demonstration 1. Joint management of a flow release warning system in the Sourou river valley (tributary of Black Volta or Mouhoun)				
-	▪ -	-	-	-
Demonstration 2. Installing and comparing technological models of wastewater treatment in the cities of Kara (Togo) and Natitingou (Benin)				
Reduction in N, P, BOD, COD etc. and untreated sludge in line with targets (Statistics (baseline and targets) to be defined during the inception phase)	▪ N, P, BOD, COD, etc.	Target: By year 2 Baseline: Will be defined during the inception phase of the demo project	Project reports, Monitoring reports: sewage collection, discharge and treatment, Results of biological and chemical analyses	Togo
Demonstration 3. Restoring and protecting the river beds of the Black Volta and its tributaries through participative campaigns of reforestation				
Sediment yield into selected rivers reduced by 20%	▪ Sediment levels in the river bed	Target: By year 3 Baseline: Will be defined during the inception phase of the demo project	FP, NIC, APR, PIR and HYP reports Report of hydrometric measures Thematic reports	Côte d'Ivoire and Ghana
Water retention in the forest area increased by 25%	▪ Water flow and Runoff ▪ Infiltration, Evaporation, Precipitation ▪ Basin protection and Vegetation index	Target: By year 3 Baseline: Will be defined during the inception phase of the demo project	FP, NIC, APR, PIR and HYP reports Report of hydrometric measures Thematic reports	Côte d'Ivoire and Ghana
Surfaces burned by bush fires in selected areas are reduced by 50%	▪ 50 km of firewalls realized around plot of yards reforested and forests gallery ▪ Number of hectares burned	Target: By year 3 Baseline: Will be defined during the inception phase of the demo project	FP, NIC, APR, PIR and HYP reports	Côte d'Ivoire and Ghana

Table 5. Environmental/Water resources Status Indicators

Environmental/Water resources Status Indicators	Parameters Measured	Target and Baseline	Means of Verification	Responsible agency	Location of Action
To be further developed during the inception period of the project					

8.6 Annex F: List of National Focal Points

Country	Institution	Name	Address	Remark
Benin	MEPN	Houélékou Jean Pierre	jphouelekou@yahoo.fr	National Coordinator
	DG Eau	Félix Azonsi	felixazonsi@gmail.com	
Burkina Faso	DGRE	Sankara Sandrine	bassonon.sandrine@gmail.com	National Coordinator
	DGCN	Ouédraogo Joachim	ouederjoachim@yahoo.fr	
Côte d'Ivoire	DRE	N'Guessan Bi Tozan Michel	michel_tozan@yahoo.fr ; mytozan@aviso.ci	National Coordinator
	DPEC	Dibi Niaghe Martin	dibmartino@yahoo.fr	
Ghana	WRC	Ampomah Benjamin	byampomah@yahoo.com	National Coordinator
	EPA	Amlalo Daniel	damlalo@epaghana.org	
Mali	STP/CIGQE	Alamir Touré	astoure@hotmail.com	National Coordinator
	DNH	Fatouma Kane	dnh@afribone.net.ml , dnh2@afribone.net.ml	
Togo	DE	Djeri-Alassani K. Bougonou	bdjeri@yahoo.fr	National Coordinator
	DGEA	Assouma Derman	cdassouma@yahoo.fr	

8.7 Annex G: TOR of the National Operational Focal Point

Background:

The Volta River Basin initiative is a UNEP/GEF regional project which has been designed for integrated management of the Volta Basin - "Addressing Transboundary Concerns project with concentration on six countries; Ghana, Benin, Burkina Faso, Cote d'Ivoire, Mali and Togo. The Project has a primary focus on some of the major environmental problems and issues of the basin leading to the degradation of the environment by human activities. The long-term goal is to enhance the ability of the countries to plan and manage the Volta catchment areas within the territories and aquatic resources and ecosystems on a sustainable basis.

This Project has three main specific objectives identified by the root cause analysis carried out during the project preparation process and updated during the inception phase: i-) Build capacity, improve knowledge, enhance stakeholders involvement to support the effective management of the Volta River Basin, ii-) develop river basin legal, regulatory and institutional frameworks and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area and, iii-) demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin

The full GEF Project will update and expand the Transboundary Diagnostic Analysis (TDA), and develop a regionally agreed Strategic Action Program (SAP) as well as Action Plans for the National Parts of the VRB (APNP-VRB), following clarification of some aspects of the environmental status of the region as well as building grounds for SAP/APNP-VRB implementation.

On a national level, the project will be executed and coordinated by two National Institutional Focal Points, each from the corresponding Ministries of Water and the Ministries of Environment in each participating country. One of the two NIFP was nominated as National Project Coordinator.

A National Operational Focal Point (NOFP) will be recruited / appointed by the government of each riparian country to facilitate a smooth and timely implementation of the project activities at country level.

Duties:

Under the direction of the National Project Coordinator and in close collaboration with the second National Institutional Focal Point, the National Operational Focal Point will:

- support the National Project Coordinator to manage on a day-to-day basis the activities relating to the set-up and the implementation of the project at the country level
- provide link between the Project Management Unit and the National Project Office and with relevant Government Institutions, Non Governmental Organisations, Community-based organisations, Projects, media and individuals whose activities are likely to enhance the implementation of the GEF-Volta Project.

Specific Duties:

As the administrative support officer to the National Project Coordinator, the NOFP will:

- Liaise regularly with members of the National Implementation Committee with a view to promoting an integrated approach in project management
- Assist the National Project Coordinator in preparing half yearly and annual reports of the project in the respective country based on agreed template.
- Assist the National Project Coordinator and the PMU in the maintenance of computer-based statistics regarding the management of the project (particularly contracting), project activities and use of project outputs
- Assist the National Project Coordinator to prepare budgets for meetings and activities and to review incoming authorizations to ensure adequate accounting against budget lines (and take appropriate action to correct and/or revise requests)

- Prepare working budgets for funds made available to National Project Office, in consultation with the National Project Coordinator.
- Regularly brief the National Project Coordinator on the financial status of the project and monitor projects expenditures with reference to the approved budget.

As the liaison point to the National Implementation Committee and the PMU, the NOFP will:

- Maintain contact with governmental and non-governmental organizations including organized/informal private sector to facilitate their involvement in project activities.
- Assist, national and international consultants to establish contacts with relevant institutions for project implementation.
- Be responsible for local organization of project related conferences, workshops and seminar in the country of appointment.
- Provide any other tasks that may be assigned to him/her by either the PMU or National Project Coordinator

Qualifications

- Must be a national of the country in which he/she is serving.
- A degree in Environment, Water resources, Natural Sciences, Project management or related fields
- Experienced in working with government ministries and institutions, UN agencies as well as with the private sector
- Experienced in project implementation, project monitoring, workshop facilitation and administrative procedures.
- Should be proficient in English and French
- Excellent ICT skills.
- Previous experience with GEF-project management and implementation at national level will be an asset.
- Excellent Inter-personal skills.

Duration: 1 year with possible yearly extension up to 4 Years

8.8 Annex H: TOR of the Task Force

Background:

The UNEP/GEF Volta River Basin Project for “*Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area*” is a regional initiative of six riparian countries in the basin, including Benin, Burkina Faso, Cote d'Ivoire, Ghana, Mali and Togo. The project which has been designed to facilitate the integrated management, sustainable development and protection of natural resources of the Volta River Basin plan to achieve its objectives by addressing priority regional transboundary issues and problems as identified through a preliminary transboundary diagnostic analysis (TDA) earlier conducted on the basin. The project is expected to promote a more sectorally-coordinated management approach, based on Integrated Water Resource Management (IWRM) principles, both at the national and the regional levels, with a strong emphasis on an expanded role for all stakeholders.

The long-term goal of the project is to enhance the ability of the countries to plan and manage the Volta catchment areas within the territories and its aquatic resources and ecosystems on a sustainable basis.

This Project has three main components with associated objectives identified by the root cause analysis carried out during the project preparation process and updated during the inception phase as follows:

- Specific Objective n° 1: Build capacity, improve knowledge, enhance stakeholders involvement to support the effective management of the VRB
- Specific Objective n° 2: Develop river basin legal, regulatory and institutional frameworks and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area
- Specific Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin

The full GEF Project will update and expand the TDA, and develop a regionally agreed Strategic Action Program (SAP) as well as Action Plan for the National Part of the VRB (APNP-VRB), following clarification of some aspects of the environmental status of the region as well as building grounds for SAP/APNP-VRB implementation.

The Project will demonstrate in a replicable manner, integrated land and water management strategies. The demonstrations will stress the development of cross-sectoral management approaches which will address the requirements for institutional realignment and appropriate infrastructure; adoption of new modalities for sectoral participation; enhancement of regional capacity to manage the basin in a sustainable manner; linkages to the social and economic root causes of environmental degradation; and the overall need for sustainability.

Activities

A multidisciplinary group of regional experts will be contracted by UNOPS as Project Task Force to facilitate a smooth and timely implementation of the project by drawing upon their expertise and experiences in project implementation for similar projects, especially GEF Projects, in the region.

The Project Task Force will provide support and work through the Project Management Unit (PMU) to address specific technical and scientific aspects of the project including:

1. Review and provide guidance and information for the finalization of the following documents (and activities leading to their development):

- regional, national and thematic reports;
- training and awareness raising campaigns modules
- Transboundary Diagnostic Analysis including i-) reviewing of the preliminary TDA document to identify gaps, ii-) support the setting of priorities and, iii-) provide technical inputs and support the draft of the final TDA
- Terms of reference for specific tasks to be carried out by national, regional or international consultants (including on Demo projects)

- Selection of consultants and the review of reports from consultants
 - Monitoring and Evaluation Plan for demonstration projects, particularly stress reduction indicators
 - Stakeholder Involvement Plan and its implementation
2. Provide assistance for the preparation of the **Strategic Action Program** and **Action Plan for the National Part of the VRB**:
- Under guidance from the PMU and based on, the methodology developed for the preparation of the SAP and APNP-VRB, support national and regional partners in gathering and analysing the necessary data and information for the preparation of the SAP and APNP-VRB,.
 - Ensure the quality and support PMU and appointed consultants for the development of SAP and APNP-VRB documents;
 - Develop a guideline for the implementation, monitoring and evaluation of the effectiveness of SAP and APNP-VRB;
 - Provide technical advice and support the development of long term financing strategy for the SAP and APNP-VRB;
 - Support PMU in strengthening capacity of governments to implement policies and strategies that address SAP/APNP-VRB priorities
 - Support PMU for setting up measures to harmonise the sectoral plans at national level with the SAP/APNP-VRB
 - Support PMU, VBA and UCC-Water for the insertion of the SAP into VBA work plan
3. Provide technical advice on the implementation of Demo Projects including:
- the development of new national Demo projects based on TDA/SAP priorities and replication plan
 - specific technical areas relative to the 3 Demo projects
4. Participate and provide support for project meetings and workshops including:
- Project Steering Committee meetings
 - Trainings sessions and other technical meetings

Outputs

1. Technical review of project documents consisting of:
- regional, national and thematic reports
 - training and awareness raising campaigns modules
 - Final Transboundary Diagnostic Analysis
 - Monitoring and Evaluation Plan for the demonstration projects
2. Preparation and finalization of SAP and APNP-VRB:
- Finalized regional vision and strategy document within the context of environmentally sustainable development;
 - Guideline document for the implementation, monitoring and evaluation of the effectiveness of SAP and APNP-VRB;
 - Review comments of the development of long term financing strategy for the SAP and APNP-VRB;
 - Sector based assessment on key TDA issues and outlining sectoral actions to be included in the APNP-VRB;
3. Demo projects: technical advices provided for the:
- Development of new national Demo projects based on TDA/SAP priorities,
 - Development of replication plan for the Demo projects
4. Participate at the initial regional training on TDA/SAP process

Composition of the Project Task Force

The Project Task Force will be composed of regional experts appointed on competitive basis by

UNOPS through the PMU and under the guidance of UNEP/DGEF. It will provide a wide spectrum of expertise and interests in the fields of:

- Water resources management
- Forestry/Biodiversity
- Environment
- Land management and desertification
- Agronomy and Economy
- Sociology and Participatory approach

The qualifications of the Project Task Force members will include:

- More than 10 years of professional experience in one of the six fields of interest highlighted above, including extensive working experience gained in the region
- Experienced in working with governments and governmental institutions, regional and international agencies as well as with the private sector
- Experienced with the preparation and implementation of IWRM concepts at the regional level, especially in stakeholder participation and capacity building
- Experienced in designing monitoring and evaluation plans for multidisciplinary projects in developing countries
- Fluent in French and English language

Duration of the assistance from the Task Force:

A maximum of 40 man days per year is foreseen to be provided by each expert of the Project Task Force. A maximum input of the Project Task Force over the full project period (4 years) will thus be 960 man days. Detailed work plans and intervention periods (time to be spent at PMU Offices, time allocated for back up and long distance support to PMU and national partners, meetings, etc.) will be agreed with the PMU, UNOPS and UNEP.

The assistance of the Project Task Force will be provided throughout the project period (August 2008 – February 2012).

8.9 Annex I: MOU drafted for the collaboration/cooperation between UNEP and VBA

[MOU/2008/XXXX]

**MEMORANDUM OF UNDERSTANDING
BETWEEN
THE UNITED NATIONS ENVIRONMENT PROGRAMME (UNEP)
AND
VOLTA BASIN AUTHORITY
(VBA)**

WHEREAS the United Nations Environment Programme (hereinafter referred to as UNEP) is the leading organization within the United Nations system in the field of environment and has as a major area of focus of its global mandate, the conservation, protection, enhancement and support of nature and natural resources, including biological diversity, worldwide.

WHEREAS UNEP's mandate is to coordinate the development of environmental policy consensus by keeping the global environment under review and bringing emerging issues to the attention of governments and the international community for action.

UNEP is the only United Nations organization with a mandate derived from the General Assembly to co-ordinate the work of the United Nations in the area of environment. As such it is the only GEF Implementing Agency whose core business is the environment. The role of UNEP in GEF was consequently spelled out in the Instrument for the Establishment of the Restructured Global Environmental Facility, which states:

“UNEP will play the primary role in catalyzing the development of scientific and technical analysis and in advancing environmental management in GEF-financed activities. UNEP will provide guidance in relating the GEF-financed activities to global, regional and national environmental assessments, policy frameworks and plans, and to international environmental agreements. UNEP will also be responsible for establishing and supporting the Scientific and Technical Advisory Panel as an advisory body to the GEF.”

WHEREAS the Volta Basin Authority, hereinafter referred to as “VBA” has been established by the Council of Ministers of the six riparian states of the Volta River Basin during their meeting in Lomé on July 17th, 2006 with the following specific objectives, among others:

- To organise and reinforce cooperation among the riparian Countries of the Volta, on the one hand, and on the other, between these Countries and all the development stakeholders concerned with the management and development of natural resources, and in particular, the water resources of the Volta basin,
- To harmonise national policies on water resources management in the basin, especially by adopting and implementing, in the whole basin, the "Integrated Water Resources Management" approach,
- To co-ordinate the studies, research and work, undertaken throughout the basin, for the development of the basin water resources and, in particular, those dealing with the provision of water and sanitation to the populations, hydropower production, irrigation, animal husbandry, fishing and the conservation of aquatic ecosystems,
- To create and/or reinforce the tools and the systems for the collection, processing, storage and dissemination of the basic data necessary for activities of scientific research, planning and

management of the basin natural resources, the water resources in particular,

- To facilitate the mobilisation of the technical, human and financial means necessary for the implementation of the studies, research and work allowing for sustainable management of natural resources in the Volta basin,
- To establish and implement Integrated Water Resources Management activities for the Volta basin,

WHEREAS UNEP and VBA (hereinafter collectively referred to as “Parties”) share common goals and objectives with regard to the conservation, protection, enhancement and support of nature and natural resources, including biological diversity worldwide and wish to collaborate to further these common goals and objectives within their respective mandates and governing rules and regulations.

WHEREAS the Parties intend to conclude this Memorandum of Understanding (hereinafter referred to as “MOU”) with the aim of consolidating, developing and intensifying their cooperation and their effectiveness to achieve the common goals and objectives in the field of environment, *in particular related to the GEF project “Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area”*.

NOW THEREFORE, UNEP AND VBA HAVE AGREED TO COOPERATE UNDER THIS MEMORANDUM OF UNDERSTANDING AS FOLLOWS:

Article 1 Interpretation

1. Any Annex to this MOU shall be considered part of this MOU. Unless the context otherwise requires, references to this MOU shall be construed as a reference to this MOU including the Annex hereto, as varied or amended in accordance with the terms of this MOU.
2. Implementation of activities/projects/programmes pursuant to this MOU shall necessitate the execution of appropriate legal agreements between the Parties.
3. This MOU supersedes all prior MOUs, communications and representations, whether oral or written, concerning the subject matter thereof.

Article 2 Purpose

1. The purpose of this MOU is to provide a framework of cooperation and understanding and to facilitate collaboration between the Parties to further their shared goals and objectives in regard to the conservation, protection, enhancement and support of nature and natural resources, including biological diversity worldwide.
2. The objectives of this MOU will be achieved through:
 - a. Regular dialogue meetings between UNEP and VBA;
 - b. Execution of a separate legal instrument between the Parties to define and implement joint activities, projects and programmes pursuant to Articles 2 and 3.

Article 3 Areas of Cooperation

1. Areas of Cooperation are agreed jointly through the cooperation mechanism in the MOU.

Policies and Priorities under this MOU may also be jointly reviewed [annually] by the Parties pursuant to Article 4. This would allow the Parties to respond to newly emerging issues in the realm of environment and sustainable development.

2. The Parties have agreed the following preliminary overarching themes for this MOU:
 - a. Promotion of good governance at all levels in the Volta Basin;
 - b. Promotion of ecosystem approach and solutions to the integrated management of the basin for the conservation, sustainable utilization and restoration of fresh water resources, including the formulation of policies favorable to the conservation and development covering the whole basin, the formulation and implementation of concrete projects;
 - c. Collection, sharing and dissemination of the lessons learned from experience
 - d. Promotion of better practices of land use in the Volta Basin so as to combat land degradation and desertification while encouraging community based approaches which generate tangible revenues to local populations
 - e. Control of pollution of various origins and invasive species in the Volta basin
 - f. Building the capacities of relevant conservation professionals (NGOs, community based organizations and governmental actors) for the protection of nature in the Volta basin.
 - g. Promotion of communication and education related to environmental management with a view of increasing the awareness and sensitization of the larger society to issues on sustainable development.
 - h. Promotion of an operational environmental information system to provide the Executive Secretariat of VBA, member states and other interested parties with improved tools for decision making.
3. These areas form part of UNEP's mandate and programme of work and have been approved by UNEP's Governing Council. They are also priorities for VBA. Some activities under these abovementioned fields are already ongoing, but are in need of additional support.
4. The above list is not exhaustive and should not be taken to exclude or replace other forms of cooperation between the Parties on other issues of common interest.

Article 4 Organization of the Cooperation

1. The Parties shall hold regular bilateral meetings on matters of common interest, in accordance with an agenda agreed in advance by the parties, aiming also at the development/monitoring of a joint project. Such meetings will take place at least once every 6 months to:
 - a. discuss technical and operational issues related to furthering the objectives of this MOU;
 - b. review progress of work undertaken by VBA pursuant to a separate legal instrument in the priority areas of cooperation mentioned in Article 3 above.
2. Within the context defined above, further bilateral meetings at desk-to-desk and at expert level will be encouraged and set up on an ad hoc basis as deemed necessary by the relevant UNEP divisions and VBA to address priority matters of common interest regarding the preparation for implementation of activities in specific areas, countries and regions.
3. In implementing activities/projects/programmes in the agreed priority areas, the Parties shall execute a separate legal instrument appropriate for the implementation of such initiatives. In identifying the areas of cooperation under this MOU, due regard shall be given to VBA's geographic coverage; capacity for implementation and experience in the related field.
4. Where VBA is organizing a meeting with external participation at which policy matters related to the aims of this MOU will be discussed, VBA shall, where appropriate, invite UNEP.

Article 5
Status of the Partner and its Personnel

1. The Parties acknowledge and agree that VBA is an entity separate and distinct from the United Nations, including UNEP. The employees, personnel, representatives, agents or contractors of the Partner, including the personnel engaged by VBA for carrying out any of the project activities pursuant to this MOU, shall not be considered in any respect or for any purposes whatsoever as being employees, personnel, representatives, agents, contractors or other affiliates of the United Nations, including UNEP, not shall any employees, personnel, representatives, agents and other affiliates of UNEP be considered, for any purposes whatsoever, as being employees, personnel, representatives, agents or other affiliates of the Partner.
2. No agents or employees of VBA shall be considered in any respect as agents or staff members of UNEP. VBA shall advise in writing its personnel that they are solely employees of VBA and that UNEP shall not be responsible for any salaries, wages, insurance or other benefits due or payable to the partner's personnel. VBA shall be solely responsible for all such salaries, wages, insurance and benefits, including without limitation, any severance or termination payments to such personnel. UNEP shall entertain no claims and have no liability whatsoever in respect thereof.

Article 6
Fundraising

1. Neither party shall engage in fund raising with third parties for activities to be carried out within the framework of this MOU in the name of or on behalf of the other.

Article 7
Dispute settlement

1. Any dispute arising out of or in connection with this MOU shall be settled amicably between the two parties. Should attempts at amicable negotiation fail, any such dispute shall, upon request by either party, be referred to arbitration in accordance with the UNCITRAL arbitration rules then prevailing.

Article 8
Official emblems and logos

1. Neither Party shall use the name, emblem or trademarks of the other Party, its subsidiaries, affiliates, and/or authorized agents, or any abbreviation thereof, in publications and documents produced by the Parties, without the express prior written approval of the other Party in each case.
2. In no event will authorization of the UNEP name or emblem, or any abbreviation thereof, be granted for commercial purposes.

**Article 9
Intellectual Property Rights**

1. The Parties shall consult with each other regarding the Intellectual Property Rights as appropriate relating to any project or benefits derived thereof in respect of activities carried out under a separate legal instrument pursuant to this MOU.

**Article 10
Notification and Amendments**

1. Each Party shall notify one another in writing, within 3 months of any proposed or actual changes that the Party deems necessary for the execution of this MOU.
2. Upon receipt of such request, the other Parties shall consult each other with a view to reaching an agreement on any actual or proposed measure(s) suggested by the other Party under Article 10(1).
3. This MOU may be amended only by mutual agreement of the Parties reflected in writing.

**Article 11
United Nations Privileges and Immunities**

1. Nothing in or relating to this MOU shall be deemed a waiver, express or implied, of any of the privileges and immunities of the United Nations, including its subsidiary organs.

**Article 12
Termination**

1. This MOU may be terminated by either party by giving 3 months prior notice to the other Party in writing.
2. Unless agreed otherwise, upon termination of this MOU, the rights and obligations of the Parties defined under any other legal instrument pursuant to this MOU, will cease to be effective.

**Article 13
Duration**

1. This MOU shall be effective upon the last date of signature of the approving officials and remain in force until 31st December 2011, unless terminated in accordance with Article 12 above. Its content shall be reviewed every 1 year.

IN WITNESS WHEREOF, the duly authorized representatives of the Parties affix their signatures below.

For United Nations Environment Programme

For VBA

.....
Name:
Division Director

.....
Name:
Title:

Date:

Date:.....

