

Country	Liberia
Request ID#	202000037
Title	The establishment of an Integrated Coastal Zone Management (ICZM) Plan
	to protect lives, properties and the environment
NDE	Mr.Christopher B. Kabah
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Summary of Climate Technology Centre and Network (CTCN) technical assistance

The coastal zone is one of the nation's greatest environmental and economic assets of Liberia. However, the evolution of coastline variations is considered as one of the most dynamic processes affecting this area. Liberia has initiated its Technology Needs Assessment (TNA) in 2019. Integrated Coastal Zone Management has been identified as one of the three and the most important technologies priorities for the country along with Flood Early Warning System and Armour or Rock Revetment.

This TA will support the formulation of an Integrated Coastal Zone Management policy framework. The ICZM policy formulation will be a dynamic, multidisciplinary and iterative process to promote sustainable management of coastal zones. It seeks over the long-term, to balance environment, socio-economic, cultural and recreational objectives; reduces ecosystem degradation; and also conserves and maintains existing ecosystems from potential climate change impacts; it involves local communities or stakeholders' participation in decision of sustainable environmental management.

The objective of this TA will be to formulate an ICZM policy framework that will:

- Promote integrated planning and coordination of coastal developments across the various sectors.
- Promote sustainable economic development to secure livelihoods of coastal communities.
- Conserve the coastal and marine resources and environment for sustainable development.
- Manage environmental risks associated with changes in shoreline and climate.
- Develop capacity in research and education and enhance stakeholder awareness and participation in sustainable resource management.
- Establish effective institutional and legal frameworks for implementation of the ICZM policy.



Agreement:

(If possible, please use electronic signatures in Microsoft Word file format)

National Designated Entity to the United Nations Framework Convention on Climate Change (UNFCCC) Technology Mechanism

Name:

Christopher

B. Kabah

Title: National Designated Entity

Date: February

10, 2021

Signature:

Name:

Title:

Date:

Signature:

Name:

Title:

Date:

Signature:

Name:

Title:

Date:

Signature:

Climate Technology Centre and Network (CTCN)

Name: Rose Mwebaza Title: Director of CTCN

Date: 10/02/2021 Signature: (2)





1. Background and context

Currently in Liberia, the coastal zone is faced with the following climate change impacts: coastal erosion, coastal flooding and marine/ saline intrusion into fresh drinking waters. Climate Change impacts have become a national concern as they are destroying lives, property, coastal ecosystems, socio-economic activities in majority of Liberia's coastal areas¹.

it is projected that about 95 km² of land in the coastal zone of Liberia will be inundated as a result of one-metre sea level rise, with about 50% (48 km²) of the total land loss due to inundation being the sheltered coast (Wiles, 2005). The inundation will be followed by shoreline retreat (Wiles, 2005); yet the population of Monrovia continues to grow. The potential rise in sea levels could add to existing trends of coastal erosion in areas like Buchanan, Monrovia and Greenville with a loss in infrastructure and land of around \$250 million apart from the social and psychological stress on the population (Tumbey, 2015; Wiles, 2005).

Hard engineering coastal defence measures are commonly used in and around Monrovia. Interestingly, during the National Coastal Vulnerability Assessment of 2019, we observed that the soft or green measures of coastal defence systems have been practiced in Maryland and Grand-Kru Counties for many years. These green measures consist of planting of coconut and almond trees along the beaches. coconut trees or plantations along the beaches were primarily planted to be used as food or for agriculture purposes, such as a means to generate income. The trees also reduce the velocity of the ocean's wind that most often destroys the roof of homes, as well as a prevention to coastal erosion.

The Technology Needs Assessment on adaptation is being undertaken in Liberia for the first time. However, Liberia conducted vulnerability assessments and identified priority adaptation sectors and activities in the First National Communication (INC) and the National Adaptation Program of Action in 2008 (NAPA, 2008). The TNA for adaptation is an opportunity to determine the highest priority sectors and technologies for adaptation in the country. Integrated Coastal Zone Management has been listed as one of these priorities, and the lack of legal and regulatory policies and framework as one of the main barriers for its implementation (TNA – Barriers Analysis & Enabling Framework for the Diffusion of Climate Change Coastal Zone's Adaptation Technologies, April 2020).

2. Problem statement

Historically in Liberia, most of the natural beaches sand dunes have been exploited for building or construction purposes. At many public beaches, human activities have also damaged the dune area which usually serves as a natural barrier between the shoreline and the land. Unregulated beach sand mining, private and public constructions on the beaches are also considered as a major problem contributing to the high rate of coastal erosion in coastal communities. Consequently, in addition to the above human induced activities,

¹ TNA Liberia, Coastal Zone Management UNEP DTU.



climate change related impacts such as sea level rise and coastal flooding have accelerated the initial rate of coastal erosion in the country.

The direct impacts of coastal erosion, floods and related sea level rise impacts have become some of the alarming climate change risks currently affecting coastal cities and communities along the majority of Liberia's coastline. The impact of coastal erosion is currently disrupting livelihoods, destroying properties and leaving many residents homeless in coastal communities due to the lack of sustainable approach to mitigate or adapt to the direct threats presented to the communities. As such, the TNA's Coastal Zone has identified 3 main technologies, IZCM being the first priority.

The ICZM, if it covers the full cycle of information collection, planning, decision making, management and monitoring of implementation in the coastal zone, could regulate the above-mentioned existing problem if successfully instituted, adopted and diffused. This TA will formulate an ICZM policy framework to guide development planning and management, conservation of the environment and accommodate the social and economic needs of local communities.



3. Logical Framework for the CTCN Technical Assistance:

Goal: Formulation of an Integrated Coastal Zone Management Policy framework Outcome: Promote integrated planning and coordination of coastal developments across the various sectors. Promote sustainable economic development to secure livelihoods of coastal communities. Conserve the coastal and marine resources and environment for sustainable development. Manage environmental risks associated with changes in shoreline and climate. Develop capacity in research and education and enhance stakeholder awareness and participation in sustainable resource management. Establish effective institutional and legal frameworks for implementation of the ICZM policy. Month² Mandatory Output: Develop communication documents and implementation work plan Mandatory activities: All implementers must undertake the following activities at the beginning and at the end of the CTCN technical assistance. Activity i: A detailed implementation plan for all activities, deliverables, outputs, deadlines and responsible persons/organizations, including a gender study and an itemized budget for implementing the Response Plan. The detailed implementation plan and budget must be based directly on this Response Plan. Activity ii: Based on the work plan, a monitoring and evaluation plan with specific, measurable, achievable, relevant, and time-bound indicators should be developed to evaluate the timeliness and appropriateness of implementation. The indicators selected in the monitoring and evaluation plan should be aligned with the Closure and Data Collection Report template. This will enable the implementer to complete the CTCN Closure and Data Collection Report at the end of the technical assistance (please refer to Activity 1.4 and Section 14 of the Response Plan);

² The project timeline can be adjusted according to the level of development of the participating country.





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 Activity iii: A two-page description of the expected impact of the CTCN technical assistance prepared at the start of the assistance, updated at the end of the technical assistance (a template will be provided). Activity iv: A CTCN Closure and Data Collection report completed at the end of the technical assistance (a template will be provided). 											
Mandatory Deliverables:											
i) Implementation plan	X										
ii) Monitoring and evaluation plan	X										
iii) Impact description document (initial and final version)	X										X
iv) Closure and Data Collection Report											X
Output 1: Bibliographic analysis of relevant policies and legal instruments governing the utilization an	ıd n	ana	ıgen	nent	of	the	reso	urce	s in (Coas	tal
Zones.											
Activity 1.1: Matrix of existing legal and policy instruments Over the years, coastal resources and the environment have been managed through uncoordinated sectoral policies. This activity will review all existing policies directly linked to ICZM including the constitution of the country, any relevant Act, as well as National Oceans and Fisheries policy, Water policy, Land Policy, Environmental Policy, etc. A matrix of the existing policies will be designed to identify the sectors / aspects that should be covered by an ICZM (such as global warming and climate change, including extreme weather events and other disasters in the coastal zone) and the aspects already covered by the existing legal instruments in place.											
Activity 1.2: Identification of barriers, lack of instruments, opportunities and challenges A first report on the initial conclusions offered by the realization of a matrix will be made in order to identify the possible barriers, lack of policy covering certain relevant aspect of an ICZM, opportunities and possible challenges.											
Deliverable:											
1.1 Matrix of existing legal and policy instruments linked to Coastal Zone Management		X									
1.2 Report identifying barriers, challenges, lack of policies on the existing institutional instruments		X									
Output 2: TA coordination mechanism established, and Steering Committee formed											



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Activity 2.1 Map relevant stakeholders and establish a Steering Committee The activity will identify relevant stakeholders among governmental institutions at the national and subnational levels, private sector, civil society, academic institutions and beneficiaries. The Steering Committee shall maintain a gender balance and an adequate representation from vulnerable groups. It will provide a technical overview and a high-level guidance at every stage of the formulation of the ICZM policy framework. Please note that an ICZM Steering Committee was created for the TNA. NDE and NDA will support the implementer in the identification of main stakeholders.								
Activity 2.2: Conduct an inception meeting An inception meeting will be organised to present the goals, milestones, anticipated deliverables and the role of the stakeholder working group.								
Deliverable:								
2.1: Stakeholder mapping report containing a complete stakeholder list and the composition of the Steering Committee.		X						
2.2 Inception meeting report with photos, list of participants, summary of the presentations made and comments received, draft of the invitation to the meeting and explanation of how participants were invited, how long in advance, if the meeting was presential or organized online, etc.		X						
Output 3: Overview of the coastal zone and diversity of resources and their socio-economic important	ce							
Activity 3.1: Identify major coastal zone issues and challenges that the policy will seek to address Identify major coastal zone issues and challenges that the policy will seek to address		T						
Activity 3.2: Prioritization of major coastal issues and challenges through a participative process								
The TA Steering Committee will prioritize, complete, review the list of major's coastal zone issues that								
should be addressed by the ICZM policy framework through a 2-day workshops that would be held either								
presential (best option) or online if restrictions (for COVID or else need to be respected). The prioritization								
will be made based on a qualitative and quantitative analysis taking into account the impact of the issue for								
the environment, the economy and the communities, as well as for the biodiversity.								
Deliverable:								
3.1 Draft report on the main issues and challenges to be addressed by the ICZM policy framework			X					
3.2 Report of the workshop (list of participants, photos, PWP) and a prioritization approved by the			X					
Coordination mechanisms of these issues and challenges.								
Output 4: 5 days workshops to define the framework policy's vision, mission, policy objectives and gu	idin	g pr	incij	ples				
Activity 4.1: Define the framework policy vision and mission (1 or 2 days – open to all stakeholders).								



 THE TECHNOLOGY CENTRE & NETWORK				
In preparation of this workshop, the implementer will benchmark other countries' ICZM vision and mission, to explain with examples the importance of these concepts. After providing a definition of vision and mission, as well as the example of other countries from the region or globally, the TA coordination team will define, together and through a participative process, the definition of the vision and mission that the policy framework should adopt. The presence of youth, women, and vulnerable populations is fundamental for this workshop. The vision and mission should be agreed by the stakeholders, including public and private sectors, vulnerable populations, academical, NGOs, etc.				
Activity 4.2: Define the policy objectives through a workshop (2 nd -3 rd day for TA Steering Committee) Once the vision and mission will be defined, the workshop will continue with the members of the Steering Committee in order to define the objective of the ICZM Policy and the goals that the policy framework will aim to achieve. The objective should be clear and concise. The implementer will play an important role in moderating the discussion in order to ensure the objectives that promote sustainable management of coastal zones, and cover the long-term, to balance environmental, socio-economic, cultural and recreational objectives; reduce ecosystem degradation; and also conserve and maintain existing ecosystems from potential climate change impacts. The objective should involve local communities or stakeholder's participation in decision of sustainable environmental management. The implementer will manage the discussion based on his experience to make sure only objectives are listed at this stage. Members of the Steering Committee might not be able to participate to all 5-day workshops. The implementer, along with the members of the Steering Committee will decide the relevant participation of each members prior to the selection of the dates for the workshop to make sure relevant representative of the Steering Committee are available for their respective workshops. For this workshop, a presence of policy makers (public institutions is required).				
Activity 4.3: Define the Guiding principles through a workshop (4 th and 5 th day for TA Coordination team). Following the definition of a vision, a mission, and objectives, the Steering Committee will look at defining the guiding principles that will guide the implementation of the policy. Members of the Steering Committee might not be able to participate to all 5-day workshops. The implementer, along with the members of the Steering Committee will decide the relevant participation of each members prior to the selection of the dates for the workshop to make sure relevant representative of the Steering Committee are available for their respective workshops. For this workshop, a mix of policy makers and users of the framework policy should be invited.				



Activity 4.4: Formulate a draft of framework policy based on the inputs received during the 5-day workshops Based on the inputs received from the 5-days workshops training, the implementer will draft a first version of the ICZM policy framework. The draft ICZM framework policy should be achieved by month 6 after signature of the agreement. During month 9, the implementer will collect the comments and make the relevant and required adjustments to the draft to be finalized in Month 9. Activity 4.5: Share draft of framework policy for comments and review from the Steering Committee The draft ICZM framework policy should be achieved by month 6 after signature of the agreement and should be shared with the Steering Committee for a duration of 2 months before incorporating the relevant comments into the document. Deliverable: 4.1: Defined vision and mission of the policy framework and report of the workshop held (list of participants, questions photos, participatory process used to ensure the participation of all members, results, questions raised, comments addressed etc.) 4.2 Report on the selected policy objectives as well as description of workshop held (list of participants, questions photos, participatory process used to ensure the participation of all members, results, questions raised, comments addressed etc.) 4.3: Report with the defined guiding principles as well as description of workshop held (list of participants, questions raised, comments addressed etc.) 4.4: Formulation of a Draft ICZM Framework Policy 4.5: Revised Draft ICZM Framework Policy based on Steering Committee's comments Output 5: Specific policy statements addressing issues on integrated planning and coordination of coastal development, community empowerment and resource use conflicts, environmental conservation, management of environmental risks, awareness creation and education. Activity 5.1: Policy Statement on Integrated Planning and Coordination	ATE TECHNOLOGY CENTRE & NETWORK											
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Output 5: Specific policy statements addressing issues on integrated planning and coordination of coastal development, community empowerment and resource use conflicts, environmental conservation, management of environmental risks, awareness creation and education.	4.4 : Formulation of a Draft ICZM Framework Policy					X						
Output 5: Specific policy statements addressing issues on integrated planning and coordination of coastal development, community empowerment and resource use conflicts, environmental conservation, management of environmental risks, awareness creation and education.												
empowerment and resource use conflicts, environmental conservation, management of environmental risks, awareness creation and education.	4.5 : Revised Draft ICZM Framework Policy based on Steering Committee's comments							X				
empowerment and resource use conflicts, environmental conservation, management of environmental risks, awareness creation and education.												
Activity 5.1: Policy Statement on Integrated Planning and Coordination	empowerment and resource use conflicts, environmental conservation, management of environmental	l ris	ks, a	war	enes	SS C	reat	tion	and	educ	catio	n.
Activity 5.1: Policy Statement on Integrated Planning and Coordination												
Development activities in the coastal zone have occurred deficient planning and organisation. The												
implementer will work on suggested policy statement that will enable strong planning and regulated												
development of Coastal Zone Management in Liberia.	development of Coastal Zone Management in Liberia.											



MATE TECHNOLOGY CENTRE & NETWORK					
This section will consider at least some policy statements on the Planning and management of coastal					
development as well as on Coordination and communication mechanisms within and between government, community and other stakeholders.					
Activity 5.2: Policy Statement on Sustainable Economic Development					
Traditional natural resource-based economic activities such as artisanal fisheries, and timber harvesting from					
coastal and mangrove forests have supported local community livelihoods for generations.					
The implementer will elaborate policy statement with the goal to promote natural resource based economic					
sectors. This section should at least consider Community empowerment and sustainable livelihoods,					
resource use conflicts and benefits sharing.					
Activity 5.3: Policy Statement for the Conservation of Mangroves and the Coastal and Marine					
Environment					
This section should at least cover Mangroves, Deltas and estuaries, Management of cultural and natural					
heritage, beach and mining, waste management practices, water quality/ water supplies.					
Activity 5.4: Policy Statement on Environmental Risk Management					
This section should address the major issues and challenges identified during Outcome 3.					
Activity 5.5: Policy Statement on Capacity Building, Education, Awareness and Research					
Involvement of the community and other stakeholders in planning and development of ICZM strategies is					
important for successful implementation and sustainability of coastal programmes. Participation of the					
stakeholders at all levels promotes ownership and stewardship in resource management activities. As such,					
capacity building to strengthen institutions and the development of appropriate communication channels to					
pass on educational materials and awareness programmes targeting the community cannot be over					
emphasized. This section should at least cover Education, awareness and information programs focusing					
on coastal zone management, Research and monitoring programs on the coastal zone.					
Activity 5.6: Policy Statement on Institutional Arrangements and Legal Frameworks					
This section should analyse and propose policy statement on the best way to create a holistic approach					
(that would overcome the barriers of the sectoral approach).					
Deliverable:					
Deliverables 5.1 to 5.6: Full ICZM policy framework drafted.			X		
Denvetables 3.1 to 3.6.1 an 102.01 policy framework dianed.			71		



Outcome 6: Official review of the first drafts conducted and revised ICZM framework finalised						
Activity 6.1: Circulate first drafts of the ICZM Framework policy and collect official feedback						
First draft of the full ICZM framework policy including the vision, mission, principles, objectives and all						
policy statements will be circulated to all concerned national ministries, governing authorities and to the						
stakeholder's working group for official feedback and comments.						
Activity 6.2: Conduct an official review workshop						
The workshop will allow for a discussion on comments received so that joint decisions can be taken on						
points of debate.						
Activity 6.3: Incorporate comments and develop second drafts of ICZM Framework policy						
Comments and inputs from governmental authorities and the stakeholder's working group on the first						
drafts will be incorporated into second drafts of ICZM framework policy.						
Activity 6.4: Circulate second drafts and collect official feedback						
Second draft of ICZM framework policy will be circulated to all concerned national ministries, governing						
authorities and to the stakeholder's working group for final feedback and comments.						
Activity 6.5: Incorporate comments and develop final version of ICZM Framework policy						
Incorporate comments and develop final version of ICZM Framework policy						
Comments and inputs from governmental authorities and stakeholder working group on the second drafts						
will be incorporated into third and final drafts of the three building codes.						
Deliverables						
6.1 Compiled feedback and comments on first draft of ICZM Framework policy including vision,			X			
mission, principles, objectives and all policy statements						
6.2 Official workshop review report				X		
6.3 Second draft of ICZM Framework policy				X		
6.4 Compiled feedback and comments on Second draft of ICZM Framework policy					X	
6.5 Formulate final Framework policy						X
Outcome 7: Implementation of a framework guide						
Activity 7.1: Development of an implementation guide of the ICZM framework policy						
The implementer will prepare a guide listing the objective, Policy Statement, Strategic Actions requested,						
Results expected, Timeline, Institution responsible for its implementation, budget associated (and crediting						
line if available), quantitative monitoring indicators.						
This implementation guide will be made at short term horizon (1year).						







4 Resources required and itemized budget:

Le coût d'accueil d'une réunion / d'un atelier ou d'une formation est estimé à 1 500 dollars par jour. Il comprend une journée de location, les frais de papeterie de base, de déplacement et de nourriture des participants.

Le coût d'un voyage comprend un vol aller-retour à 1 000 \$ et cinq jours ouvrables au Liberia à 200\$, soit 2 000 \$ par voyage pour l'expert international. Les transports locaux définissent le coût des déplacements locaux en temps COVID (transport individuel).

Outputs	Activities	Detailed Budget (In US\$)											
				Team Leader and Policy Expert (H1)	Coastal Zone Management expert (12)	National CZM expert (N1)	Expert in capacity building and skills development (N2)	Gender Expert (N3)	Sum units	Per Unit	Total buget per component	Total budget per activity	Total Budget per output
Mandatory Output: Develop communication documents and implementation work plan	Activity I: Develop detailed Implementation Plan	Consultant - International	Dayo	2	0				2	500.00	1,000.00	1,000.00	
		Consultant National	Daye			0			0	200.00	-		
	Activity II: Develop a monitoring and evaluation plan	Consultant - International	Dayo	2					2	500.00	1,000.00	1,200.00	
		Consultant National	Daye			1			1	200.00	200.00		4,200.00
		Consultant - International		1					1	500.00	500.00		4,230.00
	(A two-page description of the expected impact of the CTCN technical assistance)	Consultant - Individual - Local	Daye						0	200.00		500.00	
	Activity Iv: A CTCN Closure and Data Collection report	Consultant - Individual - International	Dayo	1					1	500.00	500.00		
		Consultant - Individual - National	Days			5			5	200.00	1,000.00	1,500.00	
	Total days of work			в	0	8	0	0	12				
	Activity 1.1: Matrix of existing legal and policy instruments	Consultant - International	Dayo	1	2				3	500.00	1,500.00		
policies and legal instruments governing the utilization and management of the resources		Consultant - National	Daye			15			15	200.00	3,000.00	4,500.00	
In Coestal Zones.	opportunities and challenges	Consultant - Individual - International	Days	5	5				10	500.00	5,000.00	7,000.00	11,500.00
		Consultant - Individual - National	Daye			10			10	200.00	2,000.00		
	Total days of work			8	7	25	0	0	38				
Output 2: TA coordination mechanism established, and Steering Committee formed	Activity 2.1 Map relevant stakeholders and establish a Steering Committee	Consultant - Individual - International	Days	5	5				10	500.00	5,000.00	9.4mm	
		Consultant - Individual - Local	Daye			20		2	22	200.00	4,400.00	9,400.00	
	Activity 2.2 Conduct an Inception meeting	Consultant - International	Dayo	5	2				7	500.00	3,500.00		
		Consultant - National	Daye			10	5	2	17	200.00	3,400.00	_	20,300.00
		Workshop/Training / Meeting	Daye	1					1	1,500.00	1,500.00	_	
		Travel - International	Trip	1					1	2,000.00	2,000.00		
		Travel - Local	Trip			5			5	100.00	500.00		
	Total days of work			10	7	30	5	4	58				





	I OLBI GRIJE GI WOLK			20		20	-	-	20				
	Activity 3.1: Identify major coastal zone issues and challenges		Dayo	5	10				15	500.00	7,500.00	9,900.00	
diversity of resources and their socio-	that the policy will seek to address	Consultant - National	Dayo			10		2	12	200.00	2,400.00	5,555.55	
economic importance	Activity 3.2: Prioritization of major coastal issues and challenging through a participative process	Consultant - International	Daye	5	10				15	500.00	7,500.00		
	challenging through a participative process	Consultant - National	Daye			10	2	2	14	200.00	2,800.00		24,200.0
		Workshop/Training / Meeting	Dayo	1					1	1,500.00	1,500.00	14,300.00	
		Travel - International	Trip	1					1	2,000.00	2,000.00		
		Travel - Local	Trip			5			5	100.00	500.00		
	Total days of work			10	20	20	2	4	58				
Output 4: 5 days workshops to define the framework policy's vision, mission, policy	Activity 4.1: Define the framework policy vision and mission (1 of 2 days – open to all stakeholders).		Daye	15	15				30	500.00	15,000.00		
objectives and guiding principles		Consultant - Individual - National	Daye			10	5	5	20	200.00	4,000.00		
		Workshop/Training / Meeting	Daye	2					2	1,500.00	3,000.00	28,800.00	
		Travel - International	Trip	1	1				2	2,000.00	4,000.00		
		Travel - Local	Trip			2	2	2	8	100.00	800.00		
	Activity 4.2: Define the policy objectives through a workshop (2n -3rd day for TA Steering Committee)		Days	2	2				4	500.00	2,000.00		
		Consultant - Individual - National	Daye			1	2	1	4	200.00	800.00		
		Workshop/Training / Meeting	Days	2					2	1,500.00	3,000.00	8,400.00	
		Travel - International	Trip						0	2,000.00			
		Travel - Local	Trip			2	2	2	8	100.00	00.00		67,200.0
	Activity 4.3 Define the Guiding principles through a workshop (4th and 5th day for TA Coordination team).	Consultant - Individual - International	Days	5	5				10	500.00	5,000.00		
		Consultant - Individual - National	Dayo			2	2	1	5	200.00	1,000.00		
		Workshop/Training / Meeting	Days	1					1	1,500.00	1,500.00	7,800.00	
		Travel - International	Trip						0	2,000.00	-		
		Travel - Local	Trip			1	1	1	3	100.00	300.00		
	Activity 4.4: Formulate a draft of framework policy based on the inputs received during the 5-day workshops		Daye	15	30				45	500.00	22,500.00		
		Consultant - Individual - National	Days			10	0	5	15	200.00	3,000.00	28,400.00	
	Activity 4.5: Share draft of framework policy for comments and review from the Steering Committee	Consultant - Individual - International	Days	1				1	500.00	500.00	20,700.00		
		Consultant - Individual - National	Days			2			2	200.00	400.00		
	Total days of work			38	52	25	9	12	138				



Output 5 : Specific policy statements addressing issues on integrated planning an	Activity 5.1 : Policy Statement on Integrated Planning and Coordination	Consultant - Individual - International	Days	5	5				10	500.00	5,000.00	8,200.00	
coordination of coastal development, community empowerment and resource use		Consultant - Individual - National	Dayo			5		1	8	200.00	1,200.00	5,255.55	
conflicts, environmental conservation, management of environmental risks,	Activity 5.2: Policy Statement on Sustainable Economic Development	Consultant - Individual - International	Dayo	5	5				10	500.00	5,000.00	8,200.00	
awareness creation and education.		Consultant - Individual - National	Dayo			5		1	8	200.00	1,200.00	-,	
	Activity 5.3 : Policy Statement for the Conservation of Mangrove and the Coastal and Marine Environment		Daye	5	5				10	500.00	5,000.00	8,200.00	
		Consultant - Individual - National	Dayo			5		1	8	200.00	1,200.00	-,	37,200.00
	Activity 5.4 : Polloy Statement on Environmental Risk Management	Consultant - Individual - International	Daye	5	5				10	500.00	5,000.00	8,200.00	
		Consultant - Individual - National	Dayo			5		1	8	200.00	1,200.00	·	
	Activity 5.5: Policy Statement on Capacity Building, Education, Awareness and Research	Consultant - Individual - International	Dayo	5	5				10	500.00	5,000.00	8,200.00	
	Author P. C. College Control on the Alberta Control	Consultant - Individual - National	Days			5		1	8	200.00	1,200.00	,	
	Activity 5.6: Policy Statement on Institutional Arrangements and Legal Frameworks		Daye	5	5				10	500.00	5,000.00	8,200.00	
	Patel down of worth	Consultant - Individual - National	Daye			5		1	8	200.00	1,200.00	·	
	Total days of work			30	30	30	0	8	98				
Output 6: Official review of the first drafts conducted and revised ICZM framework	Activity 6.1 : Circulate first drafts of the ICZM Framework policy and collect official feedback		Dayo	2					2	500.00	1,000.00	2,000.00	
finalised		Consultant - Individual - National	Dayo			5			5	200.00	1,000.00	-,	
	Activity 6.2 Conduct an official review workshop	Consultant - Individual - International	Dayo	5					5	500.00	2,500.00		
		Consultant - Individual - National	Dayo			10	5	2	17	200.00	3,400.00		
		Workshop/Training / Meeeting	Dayo	2					2	1,500.00	3,000.00	11,500.00	
		Travel - International	Days	1					1	2,000.00	2,000.00		
		Travel - Local	Trip			2	2	2	8	100.00	800.00		23,500.00
	Activity 6.3 incorporate comments and develop second drafts of ICZM Framework policy	Consultant - Individual - International	Dayo		4				4	500.00	2,000.00	4,000.00	
		Consultant - Individual - National	Dayo			10			10	200.00	2,000.00	4,000.00	
	Activity 6.4 Circulate second drafts and collect official feedback	Consultant - Individual - International	Dayo	2					2	500.00	1,000.00	0.000.00	
		Consultant - Individual - National	Dayo			5			5	200.00	1,000.00	2,000.00	
	Activity 6.5 incorporate comments and develop final version of ICZM Framework policy		Dayo	2	2				4	500.00	2,000.00	4,000.00	
	Total days of work	Consultant - Individual - National	Daye	**		10	-		10	200.00	2,000.00		
	Total days of work			11	8	40	5	2	84				



A. b 4.7 - b b	Anthony 7 A Development of an Involvement along data 1879	Secretary Indicted International	-	_									
1 ' '	Activity 7.1 Development of an implementation guide of the ICZI	Consultant - Individual - International	Daye	7	18				25	500.00	12,500.00	17,500.00	
		Consultant - Individual - National	Dayo			20		5	25	200.00	5,000.00	21,500.00	
1 [Consultant - Individual - International	Dayo	7	18				25	500.00	12,500.00	13,500.00	
	Management	Consultant - Individual - National	Dayo			0		5	5	200.00	1,000.00	13,500.00	
I I	Activity 7.3 Workshop for policy makers and implementing	Consultant - Individual - International	Dayo	4	4				8	500.00	4,000.00		
	a goncles	Consultant - Individual - National	Dayo			10	3	3	18	200.00	3,200.00		
		Workshop/Training/ Meseting	Dayo	2					2	1,500.00	3,000.00	12,800.00	80,300.00
		Travel - International	Dayo		1				1	2,000.00	2,000.00		00,200.00
		Travel - Local	Trip			2	2	2	8	100.00	800.00		
I I	Activity 7.4 Prepare and conduct an awareness raising seminar	Consultant - Individual - International	Dayo	5					5	500.00	2,500.00		
	on gains from increasing ICZM	Consultant - Individual - National	Dayo			5	20	20	45	200.00	9,000.00		
		Poetere, radice, materiales	Unite	1					1	3,000.00	3,000.00	18,500.00	
		Travel - International	Dayo						0	2,000.00			
		Travel - Local	Trip				10	10	20	100.00	2,000.00		
	Total days of work			23	40	35	23	33	154				
			Days	134	162	211	44	61			248,400.00	248,400.00	248,400.00



5 Profile and experience of experts

Experts required	Brief description of required profile
International experts	
Team Leader and Policy Expert (I1)	 A minimum of 15 years relevant work experience in drafting environmental policies, laws, frameworks. At least 5 demonstrated experience in drafting environmental laws, frameworks, policies in Africa. Excellent abilities to interact with local stakeholders, collect and evaluate data and transform the information into high quality documentation tangible to the target audience. Excellent written and communication skills in English
Coastal Zone Management (CZM) expert (I2)	 A minimum of 8 years relevant work experience in Coastal Zone Management, water management or Climate Change. At least 5 demonstrated experience in Integrated Coastal Zone Management. Previous work experience in Latin America is required. Excellent abilities to interact with local stakeholders, collect and evaluate data and transform the information into high quality documentation tangible to the target audience. Excellent written and communication skills in English.
National experts	
National Coastal Zone Management Expert (N1)	 A minimum of 5 years of relevant work experience in drafting environmental policies. Proven experience of Coastal Zone Management will be valued. Proven working experience in Liberia is required. Presence in Liberia will be a plus. Good communication skills.
Expert in Capacity building and skills development (N2)	 A minimum of 8 years of relevant work experience in implementing capacity building on environmental projects at ministry/governmental level. Proven understanding, knowledge and experience of the Paris Agreement, Climate Change, sustainable development. Proven working experience in Liberia is required.
Gender Expert (N3)	 A minimum of 5 years relevant work experience in the field of gender equality and gender mainstreaming. Formal training in gender analysis and gender planning and demonstrated expertise in mainstreaming gender in projects and programmes. Excellent abilities to interact with local stakeholders, collect and evaluate data and transform the information into high quality documentation tangible to the target audience. Previous work experience in Africa is required. Excellent written and communication skills in English.



6 Intended contribution to the expected impact of the technical assistance

The TNA second report "Barrier Analysis and Enabling Framework on Liberia's coastal zone defines that one of the main barriers to implement an effective ICZM is the lack and inadequate legal act or framework. Another barrier identified is the limited understanding of ICZM functions and fundamental principles.

This TA will formulate a framework policy, create a steering committee to ensure good cooperation between the institutional bodies, and thus revisit the ICZM Unit in order to create a proper framework. This will be done through capacity building and training workshops, campaign awareness and inclusion of vulnerable populations as well as gender.

7 Relevance to NDCs and other national priorities

The project is aligned with:

- The ongoing TNA on Coastal Zone Management
- Agenda for transformation (AfT, 2013)
- National Policy and Response Strategy on Climate Change (NRSCC,2018)
- Coastal Add-On project (CAP)
- National Environmental Policy of Liberia (2003)
- National Disaster Management Policy of Liberia (2012)
- National Adaptation programme of Action (NAPA, 2008)
- INDC
- NDMA Nation hazard contingency plan

8 Links to relevant parallel activities:

There are many efforts and initiatives that have been taken to address the alarming impacts of coastal erosion, coastal flooding and marine or saline intrusion into fresh drinking water that are disrupting livelihoods, destabilizing socio-economic activities and accelerating environmental degradation³:

The Coastal Add-On project (CAP): funded by the Global Environmental Facility (GEF) through the United Nations Development Programme (UNDP) seeks to Enhance Resilience of Liberia's Montserrado County Vulnerable Coastal Areas to Climate Change Risks. The CAP constructed from June 2018 to June 2019, some 900 (Nine Hundred) linear meters coastal defense "Revetment" in the D-Twe Kru-town area. The project seeks to reduce the vulnerability of the community's population and natural coastal environment to climate change risks and enhance the capacity of the community to recover from coastal erosion impacts.

Buchanan Coastal Defence Project: also, a CAP, supported by the UNDP and implemented by the Ministry of Mines and Energy during 2016 to 2017. This project constructed about 250 linear meters of coastal defense (revetment) in Buchanan city, Grand Bassa County, along the Fanti-town and Atlantic street area to mitigate the alarming rate of coastal erosion that was of national concern.

Liberia Climate Change Assessment (2013) was a project implemented by the United States Agency for International Development *USAID-Liberia Mission* to assist the Government of Liberia

³ Coastal Zone Technology Needs Assessment for Climate Change Adaptation, July 17, 2019.



to develop climate data. In an effort, this project assessed and developed a climate data and future climate projections for the country. The project presented the level of coastal vulnerability identified in the coastal zone of Liberia from climate change impacts and recommended sustainable intervention. The result of this assessment for the coastal zone is an asset to be used by stakeholders to solicit funding from climate change donors in order to implement coastal mitigation and or adaptation measures projects.

9 Anticipated follow-up activities after this technical assistance is completed:

The TA will develop an Implementation guide at very short term (1 year) to ensure that the framework policy is endorsed and implemented. Focusing of mid-term perspective (3-5 years), the framework policy will enable the increase in the understanding and knowledge of institutions as well as citizens on the importance to protect coastal zones and ensure the conservation of the mangroves and marines' zones.

At long term perspective, the ICZM could:

- Promote integrated planning and coordination of coastal developments across the various sectors.
- Promote sustainable economic development to secure livelihoods of coastal communities.
- Conserve the coastal and marine resources and environment for sustainable development.
- Manage environmental risks associated with changes in shoreline and climate.
- Develop capacity in research and education and enhance stakeholder awareness and participation in sustainable resource management.
- Implement relevant technologies to monitor the evolution of coastal zones.

10 Benefits in terms of gender and co-benefits:

Imbedded into the design of the activities:	The Women are the main actors in the fishing activities (processing and selling of fish) on the beaches in coastal communities of Liberia. To overcome the barrier of non-gender inclusion, create and provide mitigation and adaptation measures that will have direct positive impact or result on vulnerable women, children, youth and disable groups. As such, a timely emergency response team should be instituted to evacuate / prioritize people within such category in times of potential risk of flooding. The TA should include women and youth groups at local level, CBOs and Non-Governmental Organizations (NGOs) dealing with coastal zone protection issues.
Gender and co-	Loss in infrastructure and land of around \$250 million along with social and
benefits of the	psychological stress to the population, with women and children being
activities:	particularly vulnerable would be mitigate by the TA a solution to adapt to the impact of climate change will be defined.

11 Main national stakeholders in the implementation of the technical assistance activities:

National Stakeholder	Function in the implementation of the technical
	assistance



NDE	
NDA	
Environmental Protection Agency (EPA)	
Ministry of Mines and Energy (MME)	
Integrated Coastal Zone Management Unite (ICZMU)	
Energy, Environment and Climate Change Advisor to the President of Liberia	
Heads of Standing Committees on Environment and Natural Resources of the Senate and the House of Representatives	
Commissioner of Liberia Maritime Authority	
Community Youth Empowerment (CYE)	
Ministry of Gender, Children and Social Protection (MoGCSP)	
Ministry of Internal Affairs (MIA) Alliance Consulting Engineers (ACE)	
University of Liberia (UL)	
Ministry of Commerce and Industry (MoCI), Ministry of Finance & development Planning (MFDP).	
National Fishery Authority (NaFAA)	
Initiative for Youth and Children Advancement (I-IYOCA)	

12 Contribution to the SDGs:

Goal:	Sustainable Development Goal	Direct contribution from CTCN TA
1	End poverty in all its forms everywhere	
2	End hunger, achieve food security and improved nutrition, and promote sustainable agriculture	
3	Ensure healthy lives and promote well-being for all at all ages	
4	Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	
5	Achieve gender equality and empower all women and girls	
6	Ensure availability and sustainable management of water and sanitation for all	
7	Ensure access to affordable, reliable, sustainable, and modern energy for all (consider adding targets for 7) 7.1 - By 2030, ensure universal access to	
	affordable, reliable and modern energy services	
	7.2 - By 2030, increase substantially the share of renewable energy in the global energy mix	



ILOHNOL	LOGT CENTRE & NETWORK	
	7.3 - By 2030, double the global rate of	
	improvement in energy efficiency	
	7.a - By 2030, enhance international cooperation	
	to facilitate access to clean energy research and	
	technology, including renewable energy, energy	
	efficiency and advanced and cleaner fossil-fuel	
	technology, and promote investment in energy	
	infrastructure and clean energy technology	
	7.b - By 2030, expand infrastructure and upgrade	
	technology for supplying modern and	
	sustainable energy services for all in developing	
	countries, in particular least developed countries,	
	small island developing States, and land-locked	
	developing countries, in accordance with their	
	respective programmes of support	
8	Promote sustained, inclusive and sustainable	
	economic growth, full and productive	
	employment and decent work for all	
9	Build resilient infrastructure, promote inclusive	
	and sustainable industrialization and foster	
	innovation	
10	Reduce inequality within and among countries	
11	Make cities and human settlements inclusive,	The TA will try to make the coastal
	safe, resilient and sustainable	zone of Liberia more inclusive, safe,
		resilient and sustainable.
12	Ensure sustainable consumption and production	
1	<u> </u>	
	patterns	
13		All technical assistance should
13	Take urgent action to combat climate change and	
13		indicate relevance to SDG 13 and at
13	Take urgent action to combat climate change and	
13	Take urgent action to combat climate change and its impacts	indicate relevance to SDG 13 and at least one of the following targets
13	Take urgent action to combat climate change and its impacts 13.1 - Strengthen resilience and adaptive	indicate relevance to SDG 13 and at least one of the following targets (13.1 to 13.b). This TA will formulate an ICZM
13	Take urgent action to combat climate change and its impacts	indicate relevance to SDG 13 and at least one of the following targets (13.1 to 13.b). This TA will formulate an ICZM policy framework that will support
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	13.b - Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities	Liberia is a LDC and this TA will define a framework policy including a section on coordination, capacity building, education, etc.
14	Conserve and sustainably use the oceans, seas and marine resources for sustainable development	
15	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	Yes, the TA will protect and restore the coastal zones of Liberia.
16	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels	
17	Strengthen the means of implementation and revitalize the global partnership for sustainable development	

13 Classification of technical assistance:

Please tick the relevant boxes below	Primary	Secondary
☐ 1. Decision-making tools and/or information provision	X	
☐ 2. Sectoral road maps and strategies		х
☐ 3. Recommendations for legal reforms, policies and regulations	X	
☐ 4. Financing facilitation	X	
☐ 5. Private sector engagement and market creation		X
☐ 6. Research and development of new technologies	X	
☐ 7. Feasibility of technology options		X
☐ 8. Piloting and deployment of technologies in local conditions		
☐ 9. Technology identification and prioritization		X

Please note that all CTCN technical assistance contributes to strengthening the capacity of incountry actors.

14 Monitoring and evaluation process

Upon contracting the implementing partners to implement this Response Plan, the lead implementer will produce a monitoring and evaluation plan for the technical assistance. This monitoring and evaluation plan must include specific, measurable, achievable, relevant, and time-bound indicators that will be used to monitor and evaluate the timeliness and appropriateness of the implementation. The CTCN Technology Manager responsible for the technical assistance will monitor the timeliness and appropriateness of the Response Plan implementation. Upon completion of all activities and outputs, evaluation forms will be completed by the (i) THE COUNTRY on overall satisfaction level with the technical assistance service provided; (ii) the Lead Implementer on the experience and knowledge gained through the technical assistance; and (iii) the CTCN Director on the timeliness and appropriateness of the activities and outputs.



Abbreviations and acronyms

CFC Climate Finance Centre

CIS Commonwealth of Independent States
CTCN Climate Technology Centre and Network

EBRD European Bank for Reconstruction and Development

EU European Union GCF Green Climate Fund GHG Greenhouse Gases

HVAC Heating, Ventilation and Air Conditioning

NDA National Designated Authority

NDC Nationally Determined Contribution

NDE National Designated Entity

SNiP Construction Norms and Regulations of the Soviet Union

TA Technical Assistance