

Implementation Plan with Budget Details

Basic Information	
Title of Response Plan	The establishment of an Integrated Coastal Zone Management (ICZM) Plan to protect the mangroves through Ecosystem based adaptation solutions
Technical assistance reference number	CTCN 22-018 UNEP/Economy Division/Energy and Climate Branch/CTCN/PCA/KEI CTCN 22-018; M1-32CLL-000011; SB-000900.30.01.10
Country/ countries	Solomon Islands
NDE focal point and organization	Mr. Hudson Kachina Director Climate Change Ministry of Environment, Climate Change, Disaster Management and Meteorology
Sector(s) addressed	<ul style="list-style-type: none"> - Forestry - Early Warning and Environmental Assessment
Technologies supported (from CTCN Technology Taxonomy, https://www.ctc-n.org/sites/www.ctc-n.org/files/resources/ctcn_taxonomy_0.pdf)	<ul style="list-style-type: none"> - Forest governance, Forest protection & conservation, Assisted natural regeneration - GIS, Vulnerability assessment & mapping tools, Downscaling of climate model projections
Implementation period and total duration	Start date: 1 October 2022 End date: 31 December 2023
Total budget for implementation	USD248,400.
Designer of the Response Plan	CTCN
Implementer of Response Plan	Korea Environment Institute

Part – A – Implementation Plan

1. Background

As the operational arm of the United Nations Framework Convention on Climate Change (UNFCCC)'s Technology Mechanism, the CTCN received from the UNFCCC the mandate to promote the accelerated transfer of environmentally sound technologies for low carbon and climate resilient development at the request of developing countries (cf. COP decisions 1/CP.16, 2/CP.17, 14/CP.18, and 25/CP.19). To achieve this, the CTCN provides technology solutions, capacity building and technical advice on policy, legal and regulatory frameworks tailored to the needs of individual countries and based on specific country requests submitted by a National Designated Entity (NDE). The CTCN is therefore a demand-driven mechanism; as its services are offered upon request by developing countries, the volume and specific nature of activities ultimately depend on countries' requirements and needs.

The CTCN is composed of a Climate Technology Centre (CTC) and a Network (cf. COP decision 2/CP.17). The CTCN is hosted by the United Nations Environment Programme (UNEP).

The CTC network, including the Korea Environment Institute (KEI), Republic of Korea, consists of institutions forming a Technical Resource Pool and is responsible for supporting the CTC Climate Technology Manager in the initial appraisal, refinement, and technical support of requests received through NDEs. When necessary, a small expert team from these institutions is established to support the Climate Technology Manager in responding to a request, prepare a response plan for more in-depth support, and deliver immediate technical assistance assuring a rapid and flexible response and implementation (flexibility and speed that have been one of the main selling points of the UNEP proposal to the UNFCCC). The network partners, including KEI, also provide support to the CTCN's capacity building, networking, knowledge sharing, and awareness-raising activities.

As a CTC network partner, KEI is enhancing the CTCN capacities to foster the transfer of climate technologies in developing countries through its strong international presence and specifically in Asia and the Pacific as a leading technical expert in various sectors. KEI has solid expertise in developing energy technologies and practices, advancing related science and engineering, and providing knowledge and innovations to integrate systems at all scales.

This agreement contributes to the Climate Change Sub programme 2020-2021, including Expected Accomplishment (b), "Countries increasingly adopt, integrate and/or implement low greenhouse gas emission development strategies and invest in clean technologies"; and Output 7, "Technical support provided to countries through the Climate Technology Centre and Network established under the UNFCCC".

The CTCN team conducted a risk assessment in light of the COVID-19 situation and is in close contact with the Government of Solomon Islands. Stakeholder workshops and data collection are foreseen, but the CTCN team and KEI will assess the situation with the Government of Solomon Islands to organize virtual meetings and alternative data collection methods instead if necessary.

2. Definitions

In accordance with COP decision 25/CP.19,

- (a) "Convention" means the United Nations Framework Convention on Climate Change (UNFCCC);
- (b) "COP" means the Conference of the Parties to the Convention;
- (c) "CTCN" means the Climate Technology Centre and Network formed by a Climate Technology Centre (CTC) and a Network managed by the CTC;
- (f) "Network" means the collection of institutions and other entities established in accordance with the criteria approved by the Advisory Board for the designation of members of the Network and its structure;
- (g) "Advisory Board" means the Advisory Board of the CTCN;
- (h) "National designated entity" (NDE) means the national entity designated under decision 4/CP.13.

3. Objectives of the PCA

The main objective of the PCA is to provide Solomon Islands with a clear strategy and direction to establish an Integrated Coastal Zone Management (ICZM) Plan to protect the mangroves through Ecosystem-based adaptation solutions. This clear strategy (so-called masterplan) should be able to serve as a map for a further detailed and actionable plan for the government to develop the regulatory framework, infrastructures, and policy necessary to support and enable the establishment of an ICZM plan. The master plan should also help relevant stakeholders understand their roles and how stakeholders can collaborate during the development stage and commercial stage in the future.

4. Activities

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 1: 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 2: 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 timelines 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 Selection 14 of the Response Plan).

Activity 3: 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 4: A CTCN Closure and Data Collection report completed at the end of the technical assistance (a template will be provided).

Deliverables	Delivery date
1. Implementation plan	31 October 2022
2. Monitoring and evaluation plan	31 October 2022
3. Impact description document (initial and final version)	31 October 2022/ 31 December 2023
4. Closure and data collection report	31 December 2023

Output 1 – Bibliographic analysis of relevant policies and legal instruments governing the use and protection of the mangroves on Solomon Islands

Activity 1.1: Matrix of existing legal and policy instruments

Over the years, mangroves have been managed through uncoordinated sectoral policies. This activity will review all existing policies directly linked to ICZM and mangroves in Solomon Islands, including the constitution of the country, any relevant Act, Water policy, Land Policy, Environmental Policy, as well as the NDC and other strategic documents. A matrix of the existing policies will be designed to identify the sectors/aspects that should be covered by an ICZM on mangroves through EbA solutions (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 and lack of policy covering a certain relevant aspect of an ICZM on the protection of mangroves through EbA solutions, opportunities, and possible challenges.

Deliverables	Delivery date
1.1. Matrix of existing legal and policy instruments linked to Coastal Zone Management	15 November 2022
1.2. Report identifying barriers, challenges, and lack of policies on the existing institutional instruments	30 November 2022

Output 2: TA coordination mechanism established, and Steering Committee formed

Activity 2.1: Map relevant stakeholders and establish a Steering Committee

The activity will identify relevant stakeholders among governmental institutions at the national and sub-national levels, private sector, civil society, academic institutions, and beneficiaries. The Steering Committee shall maintain a gender balance and an adequate representation of vulnerable groups. It will provide a technical overview and high-level guidance at every stage of the formulation of the ICZM policy framework for mangroves through EbA. The NDE will support the implementer in the identification of the 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. This inception meeting should be held in person in Solomon Islands in the presence of at least the team leader and ideally a senior mangrove expert. The implementer will take advance of this first mission on site to visit at least 3 mangrove sites. These sites can be selected by the NDE and steering committee based on their location (relatively closed to the capital), their level of degradation, the involvement of the communities, and the importance of mangroves for the communities. These sites should reflect the problem faced by Solomon Islands in the management of its mangroves.

Deliverables	Delivery date
2.1 Stakeholder mapping report containing a complete stakeholder list and the composition of the Steering Committee.	15 November 2022
2.2 Inception meeting report with photos, list of participants, a summary of the presentations made, comments received, a draft of the invitation to the meeting, and an explanation of how participants were invited, how long in advance, if the meeting was presential or organized online, etc. Report on the visit on sites of the (at least) 3 mangroves sites.	30 November 2022

Output 3: Overview of the coastal zone and diversity of resources and their socio-economic importance

Activity 3.1: Map (through satellites images) the mangroves and identify issues and challenges that the plan will seek to address

In the activity, it is expected that a satellite map of the mangroves of the Solomon Islands will be produced. With the support of this map, the level of deterioration will be identified. Climate change scenarios will be modelled (one conservative, one probable, one alarmist) to identify which of these mangroves could be most affected by the effects of Climate Change in the short and long term. Based on this satellite map, a clear list of issues and challenges will be listed and presented in a report.

Activity 3.2: Prioritization of major mangroves issues and challenges through a participative process

The TA Steering Committee will prioritize, complete, and review the list of major mangroves issues that should be addressed by the ICZM plan through a 2-day workshop that will be held in person in Solomon Islands. The prioritization will be made based on a qualitative and quantitative analysis taking into account the impact of the issue on the environment, the economy, and the communities, as well as the biodiversity.

Deliverables	Delivery date
Activity 3.1.A: Satellites maps of the mangroves of Solomon Islands.	15 January 2023
Activity 3.1.B: 3 Climate scenarios modeled	15 January 2023
Activity 3.1.C: Draft report on the main issues and challenges to be addressed by the ICZM policy framework	15 January 2023
Activity 3.2: Report of the workshop (list of participants, photos, PWP) and a	31 January 2023

prioritization approved by the Coordination mechanisms of these issues and challenges.	
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Output 4: 5-days workshops to define the ICZM mangrove plan

Activity 4.1: Define the ICZM mangrove plan's vision and mission (1 or 2 days – open to all stakeholders)

In preparation for this workshop, the implementer will benchmark other countries' ICZM vision and mission on mangroves 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 upon by the stakeholders, including public and private sectors, vulnerable populations, academical, NGOs, etc.

Activity 4.2: Define the policy objectives through a workshop (2nd -3rd day for TA Steering Committee)

Once the vision and mission are defined, the workshop will continue with the members of the Steering Committee in order to define the objective of the ICZM Policy for mangroves through the use of EbA solutions 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 mangroves and cover the long-term, to balance environmental, socio-economic, cultural, and recreational objectives; reduce mangroves degradation; and also conserve and maintain existing mangroves from potential climate change impacts.

The objective should involve local communities or stakeholders' participation in the decision of sustainable environmental management for the mangroves of Solomon Islands . 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 in all 5-day workshops. The implementer, along with the members of the Steering Committee, will decide the relevant participation of each member prior to the selection of the dates for the workshop to make sure relevant representatives of the Steering Committee are available for their respective workshops. For this workshop, a presence of policymakers (public institutions is required). The Team leader and the senior experts in mangroves should also be present.

Activity 4.3: Define the Guiding principles through a workshop (4th and 5th 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 in all 5-day workshops. The implementer, along with the members of the Steering Committee, will decide the relevant participation of each member prior to the selection of the dates for the workshop to make sure relevant representatives of the Steering Committee are available for their respective workshops. For this workshop, a mix of policymakers and users of the framework policy should be invited. The Team leader and the senior experts in mangroves should also be present.

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-day workshop training, the implementer will draft a first version of the ICZM on the mangroves policy framework. The draft ICZM framework policy should be achieved by

month 6 after the signature of the agreement. During month 9, the implementer will collect the comments and make the relevant and required adjustments to the draft during 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 the 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.

Deliverables	Delivery date
Activity 4.1: Defined vision and mission of the policy framework and report of the workshop held (list of participants, questions, photos, the participatory process used to ensure the participation of all members, results, questions raised, comments addressed, etc.)	28 February 2023
Activity 4.2: Report on the selected policy objectives as well as a description of the workshop held (list of participants, questions, photos, the participatory process used to ensure the participation of all members, results, questions raised, comments addressed, etc.)	28 February 2023
Activity 4.3: Report with the defined guiding principles as well as a description of the workshop held (list of participants, questions, photos, the participatory process used to ensure the participation of all members, results, questions raised, comments addressed etc.)	28 February 2023
Activity 4.4: Formulation of a Draft ICZM Framework Policy	31 March 2023
Activity 4.5: Revised Draft ICZM Framework Policy based on Steering Committee's comments	30 June 2023

Output 5: Specific policy statements addressing issues on integrated planning and coordination of mangroves, 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

The implementer will work on a suggested policy statement that will enable strong planning and regulated development of Mangroves Management in Solomon Islands. This section will consider at least some policy statements on the Planning and management of mangrove management 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 a policy statement with the goal of promoting 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

The involvement of the community and other stakeholders in the planning and development of ICZM strategies for mangroves is important for the 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 mangroves.

Activity 5.6: Policy Statement on Institutional Arrangements and Legal Frameworks

This section should analyse and propose a policy statement on the best way to create a holistic approach (that would overcome the barriers of the sectoral approach).

Deliverables	Delivery date
Activity 5.1 to 5.6: Full ICZM policy framework drafted	30 June 2023

Output 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

The first draft of the full ICZM plan on mangroves, including the vision, mission, principles, objectives, and all policy statements, will be circulated to all concerned national ministries, governing authorities, and the stakeholders'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 the second draft of the ICZM plan on mangroves.

Activity 6.4: Circulate second draft and collect official feedback

The second draft of the ICZM plan on mangroves will be circulated to all concerned national ministries, governing authorities, and the stakeholder's working group for final feedback and comments.

Activity 6.5: Incorporate comments and develop final version of ICZM plan on mangroves Incorporate comments and develop final version of ICZM plan on mangroves

Comments and inputs from governmental authorities and stakeholder working groups on the second draft will be incorporated into the third and final drafts of the ICZM framework policy.

Deliverables	Delivery date
Activity 6.1: Compiled feedback and comments on the first draft of ICZM Framework policy, including vision, mission, principles, objectives, and all policy statements	30 June 2023
Activity 6.2: Official workshop review report	31 July 2023
Activity 6.3: Second draft of ICZM Framework policy	31 July 2023
Activity 6.4: Compiled feedback and comments on the second draft of ICZM Framework policy	31 October 2023

Activity 6.5: Formulate final Framework policy	30 November 2023
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Output 7: Implementation of a framework guide

Activity 7.1: Development of an implementation guide of the ICZM plan on mangroves

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), and quantitative monitoring indicators. This implementation guide will be made at a short-term horizon (1 year).

Activity 7.2: Suggested technologies for Mangroves Management through EbA

Based on the results of outcome 3, the implementer will suggest some concrete sustainable technologies, methods, actions or measures (6-8) that would support the management of the mangroves through Ecosystem-Based Adaptation solutions. These measures will be defined in fact sheets that will include at least a name for the action, a definition and description of the EbA solution, a cost (for the acquisition and maintenance), a purpose, the benefits (social, economic, and environmental), an in-country advantage(s), and a potential provider.

Activity 7.3: Workshop for policy makers and implementing agencies

The workshop will present the finalised as well as the suggested implementation guide and proposed technologies for Climate change adaptation. Following this workshop, the implementation guide may seek official endorsement.

Activity 7.4: Prepare and conduct an awareness campaign on ICZM for mangroves in Solomon Islands.

This awareness campaign will be focused on communities living in the Coastal Zone, the vulnerable and affected populations, gender, and youth and will communicate about the new ICZM framework policy. Should the implementation guide be endorsed, further information could also be diffused in that sense.

Deliverables	Delivery date
Activity 7.1: Implementation guide under a short-term perspective (1 year) of the ICZM framework policy	31 October 2023
Activity 7.2: Technologies fact sheets (6-8) for Integrated Coastal Zone Management	31 October 2023
Activity 7.3: Report on the workshop (photos, list of participants, comments and answers received and provided)	30 November 2023
Activity 7.4: Report on the awareness campaign held in the Coastal Zones of Solomon Islands)	31 December 2023

Summary – Implementation period

Start date	1 October 2022
End date	31 December 2023

Part B – Activity Based Budget and Payment Details

Deliverables pertaining to each Output# are mentioned in Annex I, Part A Implementation Plan				
# The outputs in response plan are rephrased as main activities in Annex I				
CTCN Funding				
Cost category	Notes	2022 (\$)	2023 (\$)	Total Cost in US\$
Mandatory output: Develop communication documents and implementation work plan				
Personnel Cost: International / Local experts				
<i>Component sub-total</i>		2700	1500	4200
Mandatory output - Total		2700	1500	4200
Output 1: Bibliographic analysis of relevant policies and legal instruments governing the use and protection of the mangroves in Solomon Islands				
Personnel Cost: International / Local experts				
<i>Component sub-total</i>		11500	0	11500
Output 1 - total		11500	0	11500
Output 2: TA coordination mechanism established, and Steering Committee formed				
Personnel Cost: International / Local experts				
<i>Component sub-total</i>		16300	0	16300
Travel Cost				
<i>Component sub-total</i>		2500	0	2500
Stakeholder Engagement Cost				
<i>Component sub-total</i>		1500	0	1500
Output 2 - total		20300	0	20300
Output 3: Overview of the coastal zone and diversity of resources and their socio-economic importance				
Personnel Cost: International / Local experts				
<i>Component sub-total</i>		0	20200	20200
Travel Cost				
<i>Component sub-total</i>		0	2500	2500
Stakeholder Engagement Cost				
<i>Component sub-total</i>		0	1500	1500
Output 3 - total		0	24200	24200
Output 4: 5-days workshops to define the ICZM mangrove plan.				
Personnel Cost: International / Local experts				
<i>Component sub-total</i>		0	54200	54200
Travel Cost				
<i>Component sub-total</i>		0	5500	5500
Stakeholder Engagement Cost				
<i>Component sub-total</i>		0	7500	7500
Output 4 - total		0	67200	67200
Output 5: Specific policy statements addressing issues on integrated planning and coordination of mangroves, community empowerment and resource use conflicts, environmental conservation, management of environmental risks, awareness creation and education.				
Personnel Cost: International / Local experts				

<i>Component sub-total</i>	0	37200	37200
Output 5 - total	0	37200	37200
Output 6: Official review of the first drafts conducted and revised ICZM framework finalised			
Personnel Cost: International / Local experts			
<i>Component sub-total</i>	0	17900	17900
Travel Cost			
<i>Component sub-total</i>	0	2600	2600
Stakeholder Engagement Cost			
<i>Component sub-total</i>	0	3000	3000
Output 6 - total	0	23500	23500
Output 7: Implementation framework guide			
Personnel Cost: International / Local experts			
<i>Component sub-total</i>	0	49700	49700
Travel Cost			
<i>Component sub-total</i>	0	4600	4600
Stakeholder Engagement Cost			
<i>Component sub-total</i>	0	6000	6000
Output 7 - total	0	60300	60300
Total for all activities	34,500	213,900	248,400

In accordance with Clause IX of the PCA, the schedule of payments is as follows:

Instalment N.	Deliverable as per Budget and Implementation Plan	Amount (US\$)	Expected Date of Payment
1	PCA counter-signature	150,000	As soon as possible but no sooner than 15 days after this PCA's counter-signature date
2	Interim progress and expenditure reports for progress shown during the first 6 months of the project	75,000	No sooner than 15 days after UNEP's acceptance of the 1 st Interim Progress and Expenditure Report, and deliverables as per Annex A, as soon as reached at least 70% disbursement of all cumulative previous cash advanced.
4	Final substantive and final expenditure reports for progress shown during the 12 months of the project	35,000	No sooner than 15 working days and no later than 45 working days after UNEP's acceptance of satisfactory Final Substantive Report and Final Expenditure Report.