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|--------------------|---|
| <b>Country</b>     | <b>Salomon Island</b>   |
| <b>Request ID#</b> | <b>202200029</b>  |
| <b>Title</b>       | <b>The establishment of an Integrated Coastal Zone Management (ICZM) Plan to protect the mangroves through Ecosystem based adaptation solutions</b> |
| <b>NDE</b>         | Mr. Hudson Kachina<br>Ministry of Environment, Climate Change, Disaster Management and Meteorology<br>Director Climate Change                       |
| <b>Proponent</b>   |   |

**Summary of Climate Technology Centre and Network (CTCN) technical assistance**

This TA will support the formulation of an Integrated Coastal Zone Management policy framework to protect the mangroves through Ecosystem based adaptation solutions. 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 conserves and maintains existing ecosystems from potential climate change impacts; it involves local communities or stakeholder's 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.
- Protect the mangroves through Ecosystem based adaptation solutions.

The proposed activities could be:

Output 1: TA coordination mechanism established, and Steering Committee formed

Output 2: Bibliographic analysis of relevant policies and legal instruments governing the utilization and management of the resources in Coastal Zones.

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

Output 4: 5-days workshops to define the framework policy's vision, mission, policy objectives and guiding principles

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

Outcome 6: Official review of the first drafts conducted and revised ICZM framework finalized

Outcome 7: Suggested technologies for Coastal Zone Management

Outcome 8: Awareness campaign on ICZM

The main results would be:

- Stakeholder mapping report containing a complete stakeholder list and the composition of the Steering Committee
- Matrix of existing legal and policy instruments linked to Coastal Zone Management

- Report identifying barriers, challenges, lack of policies on the existing institutional instruments
- Consultations with main stakeholders
- Full ICZM policy framework drafted
- ICZM framework to protect the mangroves through Ecosystem based adaptation solutions endorsed by the country.
- Implementation guide under a short-term perspective (1 year) of the ICZM framework policy
- Technologies fact sheets (6-8) for Integrated Coastal Zone Management
- Report on the awareness campaign held in the Coastal Zones in Solomon Island

**Agreement:**

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

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

Name:

Title:

Date:

Signature:



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**Climate Technology Centre and Network (CTCN)**

Name: Rose Mwebaza

Title: Director of CTCN

Date:

Signature:



## **1. Background and context**

Coastal Zone management is a much-debated subject in the discourse about sustainable development in the South Pacific region. Ongoing degradation of coastal resources and the damage from regular extreme climate events is causing much concern to those involved in developing adaptation strategies for dealing with the impact of climate change in the region.

The interannual climate of Solomon Islands is driven by the Inter-Tropical Convergence Zone (ITCZ), the South Pacific Convergence Zone (SPCZ), the West Monsoon and the El Niño Southern Oscillation (ENSO). The wet season (April -November) is also tropical cyclone season generally driven by the ITCZ and the West Monsoon resulting in strong north-westerly winds and seas affecting mostly the northern part of the country. Observed temperature data by the Solomon Islands Meteorological Services show that annual surface temperature for the western, central, and eastern regions of Solomon Islands have increased during the last 30 to 50 years. The range of increase in mean air temperature for most provinces is between 0.14°C and 0.17°C/decade. A study carried out by the Pacific Climate Change Science Programme (PCCSP, 2011) showed that for three emission scenarios (low, medium, and high) using 18 Global Circulation Models the temperature in the Solomon Islands will increase by 0.2°C (low) in 2030 to 3.3°C (high) in 2090. The sea surface temperature (SST) is projected to increase in the next 30 -70 years in Solomon Islands.

Over the last decade or so, a common set of resource and environmental issues have become apparent in the Pacific islands, including unsustainable harvesting of coastal fishery resources, degradation of coastal and marine ecosystems such as mangroves, coral reefs, and seagrass beds, increasing solid waste, and groundwater pollution from human and animal waste. Environmental impacts also include loss of biodiversity from the effects of invasive species, degradation of land resources through unsustainable forestry and poor agricultural practices, excessive conversion of forest land to alternative uses, climate variability, and sea level rise.

Solomon Islands' economy is based on agriculture, forestry, and fisheries, which together account for around 40 per cent of gross domestic product (GDP) and provide employment for the majority of the population.

Except for Papua New Guinea (PNG), almost 100 per cent of Pacific islanders live in coastal areas and depend on associated land and marine coastal resources for their livelihood. While in most countries, most of the population live along the coasts in rural areas, gradually a larger proportion of the people now reside in urban centres which too, are mainly coastal.

In Salomon Island about 80% of the population live in rural areas and continue to rely on the subsistence economy with supplementary income from agriculture, forestry and fishery and remittances from relatives working off-island. Around 80% of the national population live on low lying coastal areas.

Coastal areas encompass diverse ecosystems supporting a variety of living and non-living resources. An ecosystem is defined by the Millennium Ecosystem Assessment as: "...a dynamic complex of plant, animal, and micro-organism communities, and the non-living environment, interacting as a functional unit" (Millennium Ecosystem Assessment 2005). The diversity of inter-tidal and supra-tidal ecosystems covers coral reefs and reef flats, mangrove swamps, wetlands, coastal littoral forests, and rocky and sandy beaches that are home to numerous coastal flora and fauna species. Sub-tidal marine ecosystems include lagoons and fringing and barrier reefs that include a large variety of marine species, including finfish, shellfish, seaweeds, and crustaceans.

These coastal areas provide many ecosystem services that support human wellbeing. For example, seagrass beds and mangrove habitats are important habitats for spawning, nursery, and feeding grounds for a few species. In many tropical small islands, coral reefs constitute the primary coastal protection structures, and provide sand for the formation of atolls, islets, and beaches. Reefs also provide a critically important source of food and employment for coastal communities throughout the Pacific. Many ecosystems also provide other functions, including protection against extreme events such as storms and hurricanes, storage and cycling of nutrients, sustaining biodiversity, and maintaining water balance

## **2. Problem statement**

An Integrated Coastal Zone Management (ICZM) attempts to recognise key underlying ecological processes that influence and determine the spatial and temporal effects of human activities, manifested through physical process, as well as ecological food web relationships. For the Solomon Island, the objective of the ICZM framework will be protect the mangroves through Ecosystem based adaptation solutions.

The Government of Solomon Islands considers it vital and urgent to develop the capacity of the country to assess risks and vulnerabilities associated with climate variability and change and to reduce climate change risks and adapt to the predicted impacts of climate change (MECDM 2016). This includes short term disaster risk reduction measures for climate variability and episodic extreme events, and long-term adaptation to climate change including, inter-alia, enhancing ecosystem and social resilience, climate proofing infrastructure and relocating communities as a last resort.

**1. Logical Framework for the CTCN Technical Assistance:**

|   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| <i>Goal: Formulation of an Integrated Coastal Zone Management plan to protect the mangroves through Ecosystem based adaptation solutions</i>  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| <b>Outcome:</b>   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| <ul style="list-style-type: none"> <li>Promote integrated planning and coordination of the protection of mangroves across the various sectors through ecosystem-based adaptation solutions</li> <li>Promote sustainable economic development of mangroves through EbA to secure livelihoods of coastal communities.</li> <li>Conserve the mangroves and environment for sustainable development.</li> <li>Manage environmental risks associated with changes in mangroves and climate.</li> <li>Develop capacity in research and education and enhance stakeholder awareness and participation in sustainable mangroves management.</li> <li>Establish effective institutional and legal frameworks for implementation of the ICZM plan.</li> </ul>   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| <b>Month<sup>1</sup></b>  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| <b>Mandatory Output: Develop communication documents and implementation work plan</b>   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| <b>Mandatory activities:</b> <i>All implementers must undertake the following activities at the beginning and at the end of the CTCN technical assistance.</i>  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| <p><b>Activity i:</b> 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.</p> <p><b>Activity ii:</b> 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);</p> |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |

<sup>1</sup> The project timeline can be adjusted according to the level of development of the participating country.





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| 1.1 B 3 Climate scenario modeled  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.2 Draft report on the main issues and challenges to be addressed by the ICZM policy framework   |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.3 Report of the workshop (list of participants, photos, PWP) and a prioritization approved by the Coordination mechanisms of these issues and challenges.   |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Output 4: 5-days workshops to define the ICZM mangrove plan.</b>   |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Activity 4.1: Define the ICZM mangrove plan’s vision and mission (1 or 2 days – open to all stakeholders).</b>   |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>In preparation of this workshop, the implementer will benchmark other countries’ ICZM vision and mission on mangroves, to explain with examples the importance of these concepts.</p> <p>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.</p>  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Activity 4.2: Define the policy objectives through a workshop (2<sup>nd</sup> -3<sup>rd</sup> day for TA Steering Committee)</b>   |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>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 for mangroves through the use of EbA solutions, and the goals that the policy framework will aim to achieve.</p> <p>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.</p> <p>The objective should involve local communities or stakeholder’s participation in decision of sustainable environmental management for the mangroves of Salomon Island . The implementer will manage the discussion based on his experience to make sure only objectives are listed at this stage.</p> <p>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). The Team leader and the senior experts in mangroves should also be present.</p> |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Activity 4.3: Define the Guiding principles through a workshop (4<sup>th</sup> and 5<sup>th</sup> day for TA Coordination team).</b>   |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



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| <p>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. The Team leader and the senior experts in mangroves should also be present.</p> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>Activity 4.4: Formulate a draft of framework policy based on the inputs received during the 5-day workshops</b><br/>Based on the inputs received from the 5-days workshops training, the implementer will draft a first version of the ICZM on mangroves 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 during Month 9.</p>   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>Activity 4.5: Share draft of framework policy for comments and review from the Steering Committee</b><br/>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.</p>   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>Deliverable:</b></p>   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>4.1:</b> 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.)</p>  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>4.2</b> 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.)</p>   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>4.3:</b> Report with the defined guiding principles 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.)</p>  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>4.4 :</b> Formulation of a Draft ICZM Framework Policy</p>   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>4.5:</b> Revised Draft ICZM Framework Policy based on Steering Committee’s comments</p>  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>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.</b></p>  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>Activity 5.1: Policy Statement on Integrated Planning and Coordination</b></p>   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |







## 5 Profile and experience of experts

| Experts required  | Brief description of required profile  |
|---|--|
| <b>International experts</b>                                    |  |
| <b>Team Leader and Policy Expert (I1)</b>                       | <ul style="list-style-type: none"> <li>• A minimum of 15 years relevant work experience in drafting environmental policies, laws, frameworks.</li> <li>• At least 5 demonstrated experience in drafting environmental laws, frameworks, policies in Africa.</li> <li>• Excellent abilities to interact with local stakeholders, collect and evaluate data and transform the information into high quality documentation tangible to the target audience.</li> <li>• Excellent written and communication skills in English..</li> </ul>   |
| <b>Mangroves and Coastal Zone management (CZM) expert (I2)</b>  | <ul style="list-style-type: none"> <li>• A minimum of 8 years relevant work experience in mangroves and Coastal Zone Management, water management or Climate Change.</li> <li>• At least 5 demonstrated experience in mangroves management.</li> <li>• Previous work experience in the region is required.</li> <li>• Excellent abilities to interact with local stakeholders, collect and evaluate data and transform the information into high quality documentation tangible to the target audience.</li> <li>• Excellent written and communication skills in English.</li> </ul>   |
| <b>National experts</b>   |  |
| <b>National Coastal Zone Management / mangroves Expert (N1)</b> | <ul style="list-style-type: none"> <li>• A minimum of 5 years of relevant work experience in drafting environmental policies.</li> <li>• Proven experience of Coastal Zone Management/ mangroves will be valued.</li> <li>• Proven working experience in Salomon Island is required. Presence in Salomon Island will be a plus.</li> <li>• Good communication skills.</li> </ul>   |
| <b>Expert in Capacity building and skills development (N2)</b>  | <ul style="list-style-type: none"> <li>• A minimum of 8 years of relevant work experience in implementing capacity building on environmental projects at ministry/governmental level.</li> <li>• Proven understanding, knowledge and experience of the Paris Agreement, Climate Change, sustainable development.</li> <li>• Proven working experience in Salomon Island is required.</li> </ul>  |
| <b>Gender Expert (N3)</b>                                       | <ul style="list-style-type: none"> <li>• A minimum of 5 years relevant work experience in the field of gender equality and gender mainstreaming.</li> <li>• Formal training in gender analysis and gender planning and demonstrated expertise in mainstreaming gender in projects and programmes.</li> <li>• Excellent abilities to interact with local stakeholders, collect and evaluate data and transform the information into high quality documentation tangible to the target audience.</li> <li>• Previous work experience in the region is required.</li> <li>• Excellent written and communication skills in English.</li> </ul> |

## 6 Intended contribution to the expected impact of the technical assistance

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 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.

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.

## 7 Relevance to NDCs and other national priorities

The project is aligned with the NDC of the country submitted in 2021.

## 8 Links to relevant parallel activities:

Many Pacific Island countries have developed a National Environmental Management Policy and Strategy, and sector-specific legislation to guide their sustainable environmental management efforts, including effective governance of their coastal and marine resources, and ecosystems.

The Climate Change Policy (2012-2017), which is linked to National Development Strategy (2016-2035) is also available.

## 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: | <p>The Women are the main actors in the fishing activities (processing and selling of fish) on the beaches in coastal communities of Salomon Island.</p> <p>To overcome the barrier of non-gender inclusion, create and provide mitigation and adaptation measures that will have direct positive impact or</p> |
|---|---|

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|---|--|
|   | <p>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.</p> <p>The TA should include women and youth groups at local level, CBOs and Non-Governmental Organizations (NGOs) dealing with coastal zone protection issues.</p> |
| Gender and co-benefits of the activities: | <p>Loss in infrastructure and land of around \$250 million along with social and psychological stress to the population, with women and children being particularly vulnerable would be mitigate by the TA a solution to adapt to the impact of climate change will be defined.</p>  |

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

| <b>National Stakeholder</b>                                 | <b>Function in the implementation of the technical assistance</b> |
|---|---|
| NDE   |   |
| NDA   |   |
| Environmental Protection Agency (EPA)                       |   |
| Environmental Protection Agency (EPA)                       |   |
| Ministry of Energy (MME)                                    |   |
| Integrated Coastal Zone Management Unite if any             |   |
| Energy, Environment and Climate Change Advisor Group if any |   |
| Maritime Authority  |   |
| Community Youth Empowerment                                 |   |
| Representative of Gender, Children and Social Protection    |   |
| Ministry of Commerce and Industry                           |   |
| National Fishery Authority                                  |   |

**12 Contribution to the SDGs:**

| <b>Goal:</b> | <b>Sustainable Development Goal</b>   | <b>Direct contribution from CTCN TA</b> |
|--------------|---|---|
| 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  |  |
|    | 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, safe, resilient and sustainable  | The TA will try to make the coastal zone of Salmon Island more inclusive, safe, resilient and sustainable.   |
| 12 | Ensure sustainable consumption and production patterns  |  |
| 13 | Take urgent action to combat climate change and its impacts   | <i>All technical assistance should indicate relevance to SDG 13 and at least one of the following targets (13.1 to 13.b).</i>  |
|    | 13.1 - Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries  | This TA will formulate an ICZM policy framework that will support the adaptation to CC of Salmon Island, most specifically of its coastal zone.  |
|    | 13.2 - Integrate climate change measures into national policies, strategies and planning  | This TA will develop a framework of policy for ICZM.   |
|    | 13.3 - Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning   | Capacity building to governmental bodies will be ensured as well as awareness campaign and workshops with communities living in coastal zones, private sector, university and academic sector, public sector NGOs etc. |
|    | 13.a - Implement the commitment undertaken by developed-country parties to the United Nations Framework Convention on Climate Change to a goal of mobilizing jointly \$100 billion annually by 2020 from all sources to address the needs of developing countries in the context of meaningful mitigation actions and transparency on implementation and fully operationalize the Green Climate Fund through its capitalization as soon as possible |  |



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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 | Salmon Island is a SIDS 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 Salmon Island  |
| 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:

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

*Please note that all CTCN technical assistance contributes to strengthening the capacity of in-country 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                                   |

| Outputs  | Activities  | Detailed Budget (in USD)                |      |                                    |   |                                     |   |                    |           |            |                          |                           |                         |
|--|---|---|------|------------------------------------|---|-------------------------------------|---|--------------------|-----------|------------|--------------------------|---------------------------|-------------------------|
|  |   |   |      | Team Leader and Policy Expert (E1) | Manager and Coastal Zone Management expert (E2) | National CDM / mangrove expert (E1) | Expert in mangrove building and skills development (E2) | Gender Expert (E2) | Sum units | Per UHR    | Total cost per component | Total budget per activity | Total Budget per output |
| <b>Mandatory Output:</b><br>Develop communication documents and implementation work plan   | Activity 1: Develop detailed Implementation Plan  | Consultant - International              | Days | 2                                  | 0   |                                     |   |                    | 2         | 500.00     | 1,000.00                 | 1,000.00                  | 4,200.00                |
|  | Activity 2: Develop a monitoring and evaluation plan  | Consultant - National                   | Days | 2                                  |   | 0                                   |   |                    | 2         | 200.00     | 400.00                   | 1,200.00                  |                         |
|  | Activity 3: Impact description document (A two-page description of the expected impact of the CTM on local authorities) | Consultant - National                   | Days | 1                                  |   | 1                                   |   |                    | 1         | 500.00     | 500.00                   | 500.00                    |                         |
|  | Activity 4: A CTM Closure and Data Collection report  | Consultant - Individual - National      | Days | 1                                  |   |                                     |   |                    | 1         | 500.00     | 500.00                   | 500.00                    |                         |
|  |   | Consultant - Individual - National      | Days | 1                                  |   |                                     | 5   |                    | 5         | 200.00     | 1,000.00                 | 1,500.00                  |                         |
|  |   |   |      |                                    | 6   | 0                                   | 6   | 0                  | 0         | 12         |                          |                           |                         |
|  |   |   |      |                                    |   |                                     |   |                    |           |            |                          |                           |                         |
| <b>Output 1:</b> Feasible analysis of relevant policies and legal instruments governing the use and protection of the mangrove in Bolinas Island   | Activity 1.1: Matrix of existing legal and policy instruments   | Consultant - International              | Days | 1                                  | 2   |                                     |   |                    | 3         | 500.00     | 1,500.00                 | 4,500.00                  | 11,500.00               |
|  | Activity 1.2: Identification of barriers, both of instruments, opportunities and challenges                             | Consultant - Individual - International | Days | 5                                  | 5   |                                     |   |                    | 10        | 500.00     | 5,000.00                 | 7,000.00                  |                         |
|  |   | Consultant - Individual - National      | Days |                                    |   | 10                                  |   |                    | 10        | 200.00     | 2,000.00                 |                           |                         |
|  | Total days of work  |   |      | 6                                  | 7   | 25                                  | 0   | 0                  | 38        |            |                          |                           |                         |
| <b>Output 2:</b> 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                 | 9,400.00                  | 20,300.00               |
|  | Activity 2.2: Conduct an inception meeting  | Consultant - International              | Days | 5                                  | 2   |                                     |   |                    | 7         | 500.00     | 3,500.00                 | 3,400.00                  |                         |
|  | Workshop/Training / Meeting   | Days                                    | 1    |                                    | 10  | 5                                   | 2   | 17                 | 200.00    | 3,400.00   | 10,900.00                |                           |                         |
|  | Travel - International  | Days                                    | 1    |                                    |   |                                     |   | 1                  | 1,500.00  | 1,500.00   | 2,000.00                 |                           |                         |
|  | Travel - Local  | Days                                    | 1    |                                    |   |                                     |   | 1                  | 2,000.00  | 2,000.00   | 500.00                   |                           |                         |
| Total days of work   |   |   | 10   | 7                                  | 30  | 5                                   | 4   | 58                 |           |            |                          |                           |                         |
| <b>Output 3:</b> Overview of the coastal zone and diversity of reserves and their socio-economic importance  | Activity 3.1: Map through satellite images the location and identify reserves and delineate their boundaries            | Consultant - International              | Days | 5                                  | 10  |                                     |   |                    | 15        | 500.00     | 7,500.00                 | 9,900.00                  | 24,200.00               |
|  | Activity 3.2: Prioritization of major mangrove losses and challenges through a participative process                    | Consultant - International              | Days | 5                                  | 10  |                                     |   |                    | 15        | 500.00     | 7,500.00                 | 14,300.00                 |                         |
|  | Workshop/Training / Meeting   | Days                                    | 1    |                                    | 10  | 2                                   | 2   | 14                 | 200.00    | 2,800.00   | 2,000.00                 |                           |                         |
|  | Travel - International  | Days                                    | 1    |                                    |   |                                     |   | 1                  | 1,500.00  | 1,500.00   | 2,000.00                 |                           |                         |
|  | Travel - Local  | Days                                    | 1    |                                    |   |                                     |   | 1                  | 2,000.00  | 2,000.00   | 500.00                   |                           |                         |
|  |   |   |      |                                    | 10  | 20                                  | 5   | 4                  | 58        |            |                          |                           |                         |
|  |   |   |      |                                    |   |                                     |   |                    |           |            |                          |                           |                         |
| <b>Output 4:</b> 8-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).              | Consultant - Individual - International | Days | 15                                 | 15  |                                     |   |                    | 30        | 500.00     | 15,000.00                | 4,000.00                  | 67,200.00               |
|  | Workshop/Training / Meeting   | Days                                    | 2    |                                    | 10  | 5                                   | 5   | 20                 | 200.00    | 4,000.00   | 3,000.00                 |                           |                         |
|  | Travel - International  | Days                                    | 1    |                                    |   |                                     |   | 2                  | 2,000.00  | 4,000.00   |                          |                           |                         |
|  | Travel - Local  | Days                                    | 1    |                                    |   |                                     |   | 2                  | 100.00    | 600.00     |                          |                           |                         |
|  | Activity 4.2: Define the policy objectives through a workshop (4th and 5th day for TA Steering Committee)               | Consultant - Individual - International | Days | 2                                  | 2   |                                     |   |                    | 4         | 500.00     | 2,000.00                 | 8,400.00                  |                         |
|  | Workshop/Training / Meeting   | Days                                    | 2    |                                    | 1   | 2                                   | 1   | 4                  | 200.00    | 800.00     | 3,000.00                 |                           |                         |
|  | Travel - International  | Days                                    | 2    |                                    |   |                                     |   | 2                  | 1,500.00  | 3,000.00   |                          |                           |                         |
|  | Travel - Local  | Days                                    | 1    |                                    |   |                                     |   | 0                  | 2,000.00  |            |                          |                           |                         |
|  | Activity 4.3: Define the building principles through a workshop (4th and 5th day for TA Steering Committee)             | Consultant - Individual - International | Days | 5                                  | 5   |                                     |   |                    | 10        | 500.00     | 5,000.00                 | 7,800.00                  |                         |
|  | Workshop/Training / Meeting   | Days                                    | 1    |                                    |   |                                     |   | 1                  | 1,500.00  | 1,500.00   |                          |                           |                         |
|  | Travel - International  | Days                                    | 1    |                                    |   |                                     |   | 1                  | 2,000.00  |            |                          |                           |                         |
|  | Travel - Local  | Days                                    | 1    |                                    |   |                                     |   | 1                  | 300.00    | 300.00     |                          |                           |                         |
|  | Activity 4.4: Present a draft of framework policy based on the inputs received during the 8-day workshops               | Consultant - Individual - International | Days | 15                                 | 30  |                                     |   |                    | 45        | 500.00     | 22,500.00                | 26,400.00                 |                         |
| Consultant - Individual - National   | Days  |   |      | 10                                 | 0   | 5                                   | 15  | 200.00             | 3,000.00  |            |                          |                           |                         |
| 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     | 400.00                   |                           |                         |
| Consultant - Individual - National   | Days  |   |      | 2                                  |   |                                     | 2   | 200.00             | 400.00    |            |                          |                           |                         |
| Total days of work   |   |   |      | 38                                 | 52  | 25                                  | 9   | 12                 | 138       |            |                          |                           |                         |
| <b>Output 5:</b> Specific policy statements addressing issues on integrated planning and coordination of mangrove, community empowerment and resource use, economic, environmental, conservation, management of environmental risks, awareness creation and education. | Activity 5.1: Policy Statement on Integrated Planning and Coordination  | Consultant - Individual - International | Days | 5                                  | 5   |                                     |   |                    | 10        | 900.00     | 9,000.00                 | 6,200.00                  | 97,200.00               |
|  | Consultant - Individual - National  | Days                                    |      |                                    | 5   |                                     |   | 5                  | 6         | 200.00     | 1,200.00                 | 6,200.00                  |                         |
|  | Activity 5.2: Policy Statement on Sustainable Economic Development  | Consultant - Individual - International | Days | 5                                  | 5   |                                     |   |                    | 10        | 900.00     | 9,000.00                 | 6,200.00                  |                         |
|  | Consultant - Individual - National  | Days                                    |      |                                    | 5   |                                     |   | 5                  | 6         | 200.00     | 1,200.00                 | 6,200.00                  |                         |
|  | Activity 5.3: Policy Statement for the Conservation of Mangroves and the Coastal and Marine Environment                 | Consultant - Individual - International | Days | 5                                  | 5   |                                     |   |                    | 10        | 900.00     | 9,000.00                 | 6,200.00                  |                         |
|  | Consultant - Individual - National  | Days                                    |      |                                    | 5   |                                     |   | 5                  | 6         | 200.00     | 1,200.00                 | 6,200.00                  |                         |
|  | Activity 5.4: Policy Statement on Environmental Risk Management   | Consultant - Individual - International | Days | 5                                  | 5   |                                     |   |                    | 10        | 500.00     | 5,000.00                 | 6,200.00                  |                         |
|  | Consultant - Individual - National  | Days                                    |      |                                    | 5   |                                     |   | 5                  | 6         | 200.00     | 1,200.00                 | 6,200.00                  |                         |
|  | Activity 5.5: Policy Statement on Capacity Building, Education, Awareness and Research                                  | Consultant - Individual - International | Days | 5                                  | 5   |                                     |   |                    | 10        | 500.00     | 5,000.00                 | 6,200.00                  |                         |
|  | Consultant - Individual - National  | Days                                    |      |                                    | 5   |                                     |   | 5                  | 6         | 200.00     | 1,200.00                 | 6,200.00                  |                         |
| Activity 5.6: Policy Statement on Institutional Arrangements and Legal Frameworks  | Consultant - Individual - International   | Days                                    | 5    | 5                                  |   |                                     |   | 10                 | 500.00    | 5,000.00   | 6,200.00                 |                           |                         |
| Consultant - Individual - National   | Days  |   |      | 5                                  |   |                                     | 5   | 6                  | 200.00    | 1,200.00   | 6,200.00                 |                           |                         |
| Total days of work   |   |   |      | 30                                 | 30  | 30                                  | 0   | 6                  | 96        |            |                          |                           |                         |
| <b>Output 6:</b> Official review of the first drafts reviewed and revised ICZM framework finalized   | Activity 6.1: Circulate first drafts of the ICZM Framework policy and solicit official feedback                         | Consultant - Individual - International | Days | 2                                  |   |                                     |   |                    | 2         | 500.00     | 1,000.00                 | 2,000.00                  | 23,500.00               |
|  | Consultant - Individual - National  | Days                                    |      |                                    | 5   |                                     |   | 5                  | 200.00    | 1,000.00   |                          |                           |                         |
|  | Activity 6.2: Conduct an official review workshop   | Consultant - Individual - International | Days | 5                                  |   |                                     |   |                    | 5         | 500.00     | 2,500.00                 | 11,500.00                 |                         |
|  | Consultant - Individual - National  | Days                                    |      |                                    | 10  | 5                                   | 2   | 17                 | 200.00    | 3,400.00   |                          |                           |                         |
|  | Workshop/Training / Meeting   | Days                                    | 2    |                                    |   |                                     |   | 2                  | 1,500.00  | 3,000.00   |                          |                           |                         |
|  | Travel - International  | Days                                    | 1    |                                    |   |                                     |   | 1                  | 2,000.00  | 2,000.00   |                          |                           |                         |
|  | Travel - Local  | Days                                    | 1    |                                    |   |                                     |   | 1                  | 500.00    | 500.00     |                          |                           |                         |
|  | Activity 6.3: Incorporate comments and develop second drafts of ICZM Framework policy                                   | Consultant - Individual - International | Days | 4                                  |   |                                     |   |                    | 4         | 500.00     | 2,000.00                 | 4,000.00                  |                         |
|  | Consultant - Individual - National  | Days                                    |      |                                    | 10  |                                     |   | 10                 | 200.00    | 2,000.00   |                          |                           |                         |
|  | Activity 6.4: Circulate second drafts and solicit official feedback   | Consultant - Individual - International | Days | 2                                  |   |                                     |   |                    | 2         | 500.00     | 1,000.00                 | 2,000.00                  |                         |
| Consultant - Individual - National   | Days  |   |      | 5                                  |   |                                     | 5   | 200.00             | 1,000.00  |            |                          |                           |                         |
| Activity 6.5: Incorporate comments and develop final version of ICZM Framework policy  | Consultant - Individual - International   | Days                                    | 2    | 2                                  |   |                                     |   | 4                  | 500.00    | 2,000.00   | 4,000.00                 |                           |                         |
| Consultant - Individual - National   | Days  |   |      | 10                                 |   |                                     | 10  | 200.00             | 2,000.00  |            |                          |                           |                         |
| Total days of work   |   |   |      | 11                                 | 8   | 40                                  | 5   | 2                  | 84        |            |                          |                           |                         |
| <b>Output 7:</b> Implementation Framework guide  | Activity 7.1: Development of an implementation guide of the ICZM plan on mangroves                                      | Consultant - Individual - International | Days | 7                                  | 18  |                                     |   |                    | 25        | 500.00     | 12,500.00                | 17,500.00                 | 60,300.00               |
|  | Consultant - Individual - National  | Days                                    |      |                                    | 20  |                                     |   | 20                 | 250.00    | 5,000.00   | 13,500.00                |                           |                         |
|  | Activity 7.2: Support subgroups for Mangrove Management through BSA   | Consultant - Individual - International | Days | 7                                  | 18  |                                     |   |                    | 25        | 500.00     | 12,500.00                | 12,800.00                 |                         |
|  | Consultant - Individual - National  | Days                                    |      |                                    | 0   |                                     |   | 5                  | 5         | 200.00     | 1,000.00                 |                           |                         |
|  | Activity 7.3: Workshop for policy makers and implementing agencies  | Consultant - Individual - International | Days | 4                                  | 4   |                                     |   |                    | 8         | 500.00     | 4,000.00                 | 5,200.00                  |                         |
|  | Consultant - Individual - National  | Days                                    |      |                                    | 10  | 3                                   | 3   | 16                 | 200.00    | 3,200.00   |                          |                           |                         |
|  | Workshop/Training / Meeting   | Days                                    | 2    |                                    |   |                                     |   | 2                  | 1,500.00  | 3,000.00   |                          |                           |                         |
|  | Travel - International  | Days                                    | 1    |                                    |   |                                     |   | 1                  | 2,000.00  | 2,000.00   |                          |                           |                         |
|  | Travel - Local  | Days                                    | 1    |                                    |   |                                     |   | 1                  | 500.00    | 500.00     |                          |                           |                         |
|  | Activity 7.4: Prepare and conduct an awareness raising ICZM for mangroves in Bolinas Island                             | Consultant - Individual - International | Days | 5                                  |   |                                     |   |                    | 5         | 500.00     | 2,500.00                 | 9,000.00                  |                         |
| Consultant - Individual - National   | Days  |   |      | 5                                  | 10  | 10                                  | 45  | 200.00             | 3,000.00  | 3,000.00   |                          |                           |                         |
| Publics, media, materials  | Units   | 1                                       |      |                                    |   |                                     | 1   | 3,000.00           | 3,000.00  |            |                          |                           |                         |
| Travel - International   | Days  |   |      |                                    |   |                                     | 0   | 2,000.00           |           |            |                          |                           |                         |
| Travel - Local   | Days  |   |      | 10                                 | 10  | 20                                  |   | 40                 | 100.00    | 4,000.00   |                          |                           |                         |
| Total days of work   |   |   |      | 23                                 | 40  | 35                                  | 23  | 33                 | 154       |            |                          |                           |                         |
|  |   |   | Days | 141                                | 161   | 214                                 | 44  | 61                 |           | 248,400.00 | 248,400.00               | 248,400.00                |                         |