Monitoring & Evaluation (M&E) Plan and Impact Statement Form

Objective of the M&E Plan and Impact Statement:

- The M&E Plan and Impact Statement must be designed based on the Technical Assistance Response Plan and must enable the Implementer to complete the Closure Report at the end of the assistance.

Process for filling in the form:

- The Implementer must identify relevant quantitative and qualitative indicators as specified in the Closure Report. A sub-set of indicators to monitor and assess must be chosen among these.
- The Implementer may also identify other specific, measurable, achievable, relevant, and time-bound indicators suitable to monitor Activities, Outputs and anticipated Outcomes from the technical assistance and add to the M&E Plan and Impact Statement.
- During implementation of the TA or FTA, the Implementer must collect all relevant data as described in the Monitoring & Evaluation Plan. Aggregated data on selected indicators as well as an updated version of the Impact Statement will be presented in the Closure Report at the end of the assistance.

Basic Information	
Title of response plan	**Technical assistance on development of a Marine Dynamics database for the Panamanian coasts to assess vulnerability and climate change impacts to sea level rise.**
Technical assistance reference number	RFP 3100004805
Country/ countries	PANAMA
NDE focal point and organization	MIAMBIENTE (Panamá).
Sector(s) addressed	Coastal Zones and Climate Change.
Technologies supported	Marine Climate and CC Impacts.
Implementation period and total duration	12 months
Total budget for implementation	214,762.50$
Designer of the response plan	MIAMBIENTE. (Panamá)
Implementer of response plan	Fundación Instituto de Hidráulica Ambiental de Cantabria.

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(F) Comments
Output X: Add title from the Response Plan (e.g. CTCN planning and monitoring documents)	*Select relevant indicators from the Closure Report (at least one core indicator, section B). You may also define additional relevant indicators to be added.*	*Add the expected quantitative or qualitative target/value of the indicator (e.g. number of studies, policy recommendations , etc.).*	*Describe the expected method and frequency for data collection (e.g. survey, head count at a training workshop, application of a standard methodology etc.)*	*Describe any assumptions made or anticipated challenges for collecting quantitative and qualitative data*
Development of a Marine Dynamics Database fir the Panamanian coast to assess vulnerability and climate change Impacts to sea level rise.	Core Indicator 2. Anticipated increased economic, health, well-being, infrastructure and built environment, and ecosystems resilience to climate change			
Output 1. Development of work plan and related communication documents.		Forms: (1) Monitoring and Evaluation (M&E). Plan and Impact Statement form. (2) Technical Assistance Closure Report Template.		
Output 2. Stakeholder mapping and Technical Assistance kick off meeting.		Creation of the Limited Working Group.	Stakeholder mapping based on national experts. Open Meetings to explain the scope of the project.	
Output 3. Development of high-resolution numerical data on marine dynamics.		Database.	Limited Working Group. Survey and meetings.	

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(F) Comments
Output 4. Definition of Methodological tools for the use of databases.		User Handbook. And handbook for administrators.		
Output 5. Adaptation plan for the coastal zone of Panama.		Selection of Adaptation Measures. Guidelines and action plan.	Limited Working Group. Survey and meetings.	
Output 6. Technical capacity building for officials of the Climate Change Directorate of the Ministry of Environment.		Training.		

Note: The Response Plan may contain information useful for the section below. The information in the table below will be used by the CTCN for public communication of the achieved and expected results of the Technical Assistance through the CTCN website www.ctc-n.org and other communication channels. See for example: https://www.ctc-n.org/sites/www.ctc-n.org/files/benin_a_ag_forestry.final_.pdf

Impact Statement	
Challenge	*Approximately 500 characters with space* *The overall objective of this assistance is to develop key tools for risk assessment in Panamanian coasts in order to implement climate change adaptation in coastal marine areas.*
CTCN assistance	*2 to 4 bullet points. Approximately 450 characters with space.* • *Development of high-resolution numerical data of marine dynamics at a resolution of less than 30 km for the Panamanian Atlantic and Pacific coasts at different return periods and under different emission scenarios.* • *Methodological tools (procedural guides) for the generation of marine dynamics data and their use in coastal risk assessment.* • *Assessment and recommendation of adaptation measures for the coastal zone with nature-based solutions.* • *Technical capacity building through training for officials of the Climate Change Directorate of the Ministry of Environment.* • *Development of high-impact graphic material for communities at risk.*
Anticipated impact	*2 to 4 bullet points. Approximately 250 characters with spaces. Include at least one of the core impact indicators from the Closure Report.* *Core Indicator 2. Anticipated increased economic, health, well-being, infrastructure and built environment, and ecosystems resilience to climate change impacts as a result of technical assistance.*
Anticipated co-benefits from the TA	*Instruction: Please indicate expected co-benefits as described in the response plan and in the relevant deliverables.* *The development of marine dynamics data and capacity transfer has the potential to empower women in the management and processing of scientific data for risk assessment in the coastal zone and contribute to the generation of evidence-based information within the scientific community. of climate action and adaptation.* *The products generated through this technical assistance, as well as the recommendations of nature-based solutions, will represent the increase in the resilience of coastal communities, having the potential to protect and increase the resilience of groups vulnerable to climate change, such as women are, and especially those who live from those economic activities based on the coasts, who are and will be impacted by the negative effects of climate change.*
Gender aspects of the TA	*Instruction: Please indicate if technical assistance will be supported by a gender analysis. Describe expected gender benefits as described in the response plan and in the relevant deliverables.*

	Gender aspects, would be considered all over the TA by the Gender Expert of the project team.
Anticipated contribution to NDC	*2 to 4 bullet points. Approximately 350 characters with spaces.*
The narrative story	*Approximately 1200 characters with spaces* *Please provide a brief description of the background and context for the technical assistance. Describe the main problems and barriers for climate change mitigation and/or adaptation in terms of climate technologies that the CTCN technical assistance will address.* *Currently, the country does not have quality data on marine dynamics, nor does it have trained personnel to carry out this type of analysis. In this sense, the development of high-resolution ocean information is the main tool for assessing coastal risks to ocean and climate impacts.* *With this high-resolution information, coastal flood risks can be characterized and defined to help prioritize resource allocation and climate change adaptation planning efforts.* *This information will be used to accurately map vulnerable areas and to assess flood damage in advance. It will be possible to investigate different aspects of coastal flooding, including climate variability and trends, or cultural heritage that is vulnerable to climate change effects in coastal areas.* *The transfer of capacities for the use of marine dynamics data and coastal assessment will ensure that technicians from the Climate Change Directorate of the Ministry of Environment have the appropriate autonomy and knowledge to handle and process high-resolution marine dynamics data.* *These acquired capacities will strengthen officials of institutions in charge of environmental and climate change policies, allowing them to target adaptation to the most vulnerable places, take action to safeguard the livelihoods of coastal communities and include coastal risks and vulnerability in development plans and other territorial planning instruments.* *The technological barriers limiting initiatives within national climate action are mainly access to and use of technology, and reduced technical capacity to address coastal vulnerability and risk to climate change. In the third National Communication on Climate Change, it is stated that the issues that require greater attention are those related to the generation of information tools that allow for greater and better quantification of impact, such as sectoral studies. In this sense, there are technical limitations for the collection, management and analysis of marine dynamics data for the assessment of coastal vulnerability and the development of appropriate adaptation measures.* *There is limited understanding of coastal-marine impacts as part of climate risk; additionally, national research is limited on marine dynamics, ocean weather variables and studies of coastal impacts of sea level rise. Therefore, the construction of marine dynamics data will serve to characterize the impacts and apply methods for calculating coastal flooding, study the risks to the Panamanian coast due to sea level rise, and thus support the construction of adaptation measures and increase resilience.*

Contribution to SDGs	*To the extent possible, please describe contribution to approximately 3 SDGs, including SDG13, with a few sentences for each SDGs concerned.* *A complete list of SDGs and their targets is available here: https://sustainabledevelopment.un.org/partnership/register/.*
Reference to knowledge products	*Please indicate if any UNFCCC Technology Executive Committee (TEC) knowledge products (publications, briefs, tools etc.) were used in the development of the TA request and/or are envisaged to be used during implementation of the technical assistance.* *Link to TEC knowledge database: https://unfccc.int/ttclear/tec/documents.html* *Which knowledge products do you envisage to use? Please list*