



AFRICAN DEVELOPMENT
BANK GROUP

Republic of Liberia

ENVIRONMENTAL PROTECTION AGENCY
Monrovia, Liberia

(CONSULTING SERVICES)

NAME OF PROJECT: ENHANCING CLIMATE INFORMATION SYSTEMS FOR RESILIENT DEVELOPMENT (LIBERIA CIS)

Assignment Title: **International Consultant to Develop Climate Hazards Assessments and National database**

Project ID No. **SAP018**

Reference No. **EPA/CIS/ICS/2025/010**

Issue Date: **Thursday, January 22, 2026**

End Date: **Thursday, February 5, 2026**

1. Background

The Environmental Protection Agency (EPA) in Liberia was created by an act of the Legislature on November 26, 2002, and published as a handbill on April 30, 2003, to ensure sound environmental management and sustainable use of natural resources. The EPA functions to ensure long-term economic prosperity through sustainable development and establish a legal framework for environmental management.

The EPA received funding from the Green Climate Fund to implement a five-year project called "Enhancing Climate Information Systems for Resilient Development in Liberia" (the Liberia CIS Project).

The Liberia CIS Project is a US\$11,431,969 GCF, AFDB, and GOL-funded project that aims to increase the resilience of Liberia's population and infrastructure to climate change. In particular, the project will strengthen the country's adaptive capacities to integrate better long-term climate risk reduction and adaptation measures in national planning and development through the development of a well-functioning Multi-Hazard Impact-Based Forecasting and Early Warning System (MH-IBF-EWS).

The implementation of the project will entail training and equipping the existing Liberia Meteorological Service (LMS), Liberia Hydrological Service (LHS), Environment Protection Agency (EPA) and National Disaster Management Agency (NDMA) to collect weather and climate data; introduce and maintain modelling, forecast weather events and provide early warnings systems; and scale-up evidence-based climate-informed decision-making, planning, and response actions Countrywide. The objective of the project is to strengthen Liberia's climate-related observation and monitoring capabilities, early warning and early action systems, and other environmental-related information systems. The objective seeks to drive a paradigm shift towards evidence-based climate-informed

decision-making, planning, and response by integrating green growth, environmental resilience, and adaptation into national development planning through effective climate information systems in Liberia.

2. Purpose of the Consultancy

The main objective of the consultants is to conduct a climate hazards Assessments that will detailed climate hazards and vulnerability assessment for Liberia as well as creating a National Climate Information Database to centralize climate data for policymakers, researchers, and stakeholders and building the capacity of institutions managing climate data and analyzing risks in Liberia. By accomplishing the objectives, the study will support the Liberia Climate Information System (CIS) project's goal of developing a functional Multi-Hazard Impact-Based Forecasting and Early Warning System (MH-IBF-EWS).

3. The Scope of the Services to be performed

The consultant will work closely with the EPA through the PIU and also have the opportunity to consult with the relevant agencies and ministries (e.g., LMS, LHS, NDMA, sector ministries etc.) to gather the relevant information needed to perform the assessment as stated below.

A. Climate Hazards Assessment

- Conduct a comprehensive gathering of historical climate data, focusing on critical factors such as rainfall patterns, temperature fluctuations, and instances of extreme weather events. Sources will include national agencies, like the Liberia Meteorological Department and the Environmental Protection Agency (EPA), as well as respected international organizations such as the World Bank, the Intergovernmental Panel on Climate Change (IPCC).
- Analyze trends associated with climate hazards, investigating phenomena like devastating floods, prolonged droughts, coastal erosion, and increasingly severe storms.
- Review existing vulnerability assessments, including the National Adaptation Plan and Nationally Determined Contributions (NDCs), National Communication to establish a baseline for understanding current weaknesses and challenges.

Hazard Mapping and Risk Profiling

- Create detailed GIS-based hazard maps that visually represent flood-prone zones, drought hotspots, and areas at high risk of erosion, facilitating a clear understanding of spatial vulnerabilities.
- Conduct multi-hazard risk assessments utilizing advanced models to evaluate the impact of various climate-related hazards on different sectors.

- Identify the most vulnerable sectors—such as agriculture, health, and infrastructure—along with communities that are at heightened risk, ensuring a focused approach to adaptation efforts.

Report and Recommendations:

- Compile a National Climate Hazards Assessment Report that will include risk rankings to prioritize areas and sectors for immediate attention.
- Provide adaptation and mitigation recommendations for policymakers.

B. National Climate Information Database Development

System Design

- Identify and outline the specific requirements for database, detailing user roles, necessary data types, and the need for interoperability among various systems.
- This product should be integrated into the automated platform that will be established by the Liberia CIS project.
- Suggest open-source or cloud-based platforms that can support these requirements.
- Ensure that the chosen solutions will integrate seamlessly with existing systems, particularly the Liberia Spatial Data Infrastructure, to maintain consistency and facilitate smooth data exchange.

Data Integration & Standardization:

- Create clear guidelines for collecting, storing, and sharing data.
- Use real-time weather data and remote sensing information to improve accuracy.
- Follow FAIR principles to make data easy to find, access, share, and reuse.

Capacity Building:

- Train key national groups, like the Environmental Protection Agency (EPA), Liberia Meteorological Service, Liberia Hydrological Services, National Disaster Management Agency, and other government agencies, on how to manage the database.
- Develop a manual and a maintenance plan to support the ongoing use and care of the database.

Minimum Qualification, Skills and Experience:

The completion of this work is dependent on an Individual. The selected person should have a Master's degree in Geospatial Science, Climate Informatics, Environmental Engineering, Environmental Science, Climate Change, or a related relevant discipline.

The successful Individual should have at least 10 years of cumulative working experience in conducting climate risk assessments and database development, with a very good knowledge of the impact of climate change on the Liberian environment.

Also, the individual should have the following:

- a) Excellent knowledge in modeling hazards like floods and droughts and using tools for mapping, such as QGIS and ArcGIS
- b) Experience in conducting quantitative and qualitative research and analysis.
- c) Excellent communication (written and verbal) skills and fluency in English.
- d) In-depth knowledge and understanding of Liberia's environmental sectors.
- e) Proactive, able to work with minimal supervision, and with a high degree of initiative, reliability, flexibility, and self-motivation.

Professionalism: the ability to make ad-hoc changes as and when the need arises; the ability to perform under stress; and the willingness to keep flexible working hours.

Duty Station:	Monrovia
Start Date:	Monday, March 2, 2026
End Date:	Monday, April 27, 2026
Duration of Assignment:	8 Weeks

The Environmental Protection Agency (EPA) now invites eligible individual consultants to indicate interest in providing these services by submitting their Curriculum Vitae (CV), demonstrating experience in performing similar assignments with references, and showing responsiveness to the qualifications requirements outlined in this REOI. Eligibility criteria and the selection procedure shall be in accordance with the African Development Bank's "Procurement Policy Framework for Bank Group Funded Operations" October 2015, which is available on the Bank's website at <http://www.afdb.org>.

Further information can be obtained at the address below during office hours, i.e. from 0900 to 1700 hours (GMT) on working days.

Expressions of interest must be delivered in a written form to the address below by either hard copy or email by **Thursday, February 5, 2026** @ 1700 hours (GMT) and mention "Provision of Consultancy Services for International Consultant to Develop Climate Hazards Assessments and National database in Liberia (Liberia CIS Project)."

Attn. Williemaig Digker
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