TERMS OF REFERENCE

Consultancy:
To Conduct an Assessment and Create a Database of Integrated Water Resources Management Initiatives that Foster Climate Resilience in the Caribbean

Background

The Global Water Partnership-Caribbean (GWP-C) in partnership with the Caribbean Community Climate Change Centre (CCCCC) is implementing a **Water, Climate and Development Programme (WACDEP)** for the Caribbean. WACDEP aims to directly support the Caribbean Community (CARICOM) agenda on climate change by facilitating water related adaptation actions as defined in the Implementation Plan for the Regional Framework for Achieving Development Resilient to Climate Change. The overall goal of the WACDEP for the Caribbean is to promote water security and climate resilience in Caribbean States as a key part of sustainable regional and national development for economic growth and human security. WACDEP emphasises an Integrated Water Resources Management (IWRM) approach towards the fulfillment of this goal.

It is predicted that the Caribbean region will face changes in precipitation frequency, intensity and timing, leading to changes in freshwater quantity and quality. In particular, drier and longer dry seasons are expected. When rain does fall, the rain events are likely to be more intense leading to a greater chance of flooding. Hurricanes are also likely to be more intense. The region will have to cope with these weather extremes and their subsequent impact on freshwater availability.

Addressing water security and climate resilience in the Caribbean requires, *inter alia,* the development, implementation and replication of innovative green solutions across the region. This has been recognised by regional and national organisations and addressed through a number of demonstration/pilot projects under large scale regional programmes such as the current Reducing Risk to Human and Natural Assets Resulting from Climate Change (RRACC) Project of the Organisation of Eastern Caribbean States (OECS) and the Global Environment Facility-Integrating Watershed and Coastal Area Management in Small Island Developing States of the Caribbean (GEF-IWCAM) which concluded in 2011.

Most of these programmes have had built in monitoring systems and specific outputs addressing lessons learnt in carrying out the initiatives. Lessons learnt have been documented at the end of the respective projects, but less is known about the status of initiatives' outputs after a number of years, i.e. long term sustainability and uptake by the communities and government agencies that were involved in the demonstration projects. Furthermore while some of the demonstration projects have been replicated, challenges in replicating and up-scaling the initiatives in new locations and other countries have not been captured. In some cases anecdotal information has pointed to improvements e.g. design and user friendliness. The collation of relevant project information and in-depth review of these projects will assist in identifying and replicating solutions to address water security and climate resilience in the Caribbean.

Given the above, the WACDEP aims to create **a database of Caribbean projects** that address climate resilience and water security and also carry out **a detailed study of these projects** highlighting:

- Lessons learnt with regards to the long term sustainability of the projects.
- Successes and pitfalls in the replication of the demonstration projects.
- Challenges and successes when the demonstration projects have been applied in other locations and other countries.
- Improvements to demos when replicated.

The database will be housed within the WACDEP Climate Resilience and Water Security Online Knowledge Platform which is currently being developed. It is intended that the projects database will serve as a reference point for the development of future interventions in that it will:

- Highlight activities that could be built upon, in particular future needs and gaps that can be filled.
- Showcase where funding is needed.
- Avoid duplication of efforts.
- Serve as a guide for partnerships and joint programming amongst relevant agencies.

The need for such a database has been highlighted in the joint work programme of the CARICOM Consortium on Water for the biennium 2011-2012 as a means of avoiding duplication of efforts among the regional organisations working in the area of water resources management. As per a Memorandum of Understanding (MOU) signed between CARICOM and GWP-C, GWP-C is committed to "Provide support to CARICOM water related development priorities." Thus the creation and maintenance of this database fulfils commitments under the CARICOM-GWP-C MOU.

The target audience for this database will include: national and regional water security/climate resilience agencies, donor and development agencies, researchers, and all stakeholders with an interest in water security in the Caribbean. This database will be maintained and periodically updated by GWP-C as part of its ongoing programme and mandate to "Promote public participation in the management of water resources through capacity building and information sharing at the community, national and regional levels." The database and assessment will be promoted widely in the Caribbean, as well as, internationally. In particular, case studies from the assessment will be shared throughout the international Global Water Partnership (GWP) Network via the GWP IWRM Toolbox.

Objective of Consultancy

To research and produce a database and report on Integrated Water Resources Management (IWRM) initiatives that foster climate resilience in the Caribbean

Scope of Consultancy

1. Produce a database on IWRM initiatives that foster climate resilience in the Caribbean
2. Produce an assessment on the sustainability of past IWRM initiatives that can help foster climate resilience in the Caribbean.

A preliminary list of relevant initiatives for the database has already been generated by GWP-C. The consultant will work with GWP-C staff to identify other relevant projects and initiatives. Based on the preliminary list generated by GWP-C, the database is likely to have a minimum of forty (40) projects.

Information to be captured for the database will include *inter alia*:

- Project title; duration; executing agencies; partners; funding; targets including geographic and demographic coverage.
- Objectives; main achievements and outputs; summary of any capacity built; description of community and private sector engagement; description of the integration of gender concerns; new technologies and methodologies developed.
- Project uptake e.g. replication, up-scaling, adoption by government agencies and communities.
- Key lessons learnt, next steps identified; gaps; possible or realised follow-up projects; priority needs for future intervention, funding needs.
- Contact and reference information e.g. project websites; links to main outputs and reports.

Given the predicted climate impacts for the Caribbean in the future, database projects should be those that address *inter alia:*

- Water conservation (e.g. water audits, water efficiency)
- Drought and flood management
- Water security after disaster events such as hurricanes
- Water augmentation (e.g. rainwater harvesting)
- Community participation and/or community management of water resources
- Ecosystem services and ecosystem resilience (e.g. projects that reduce stressors/pollution loading on fresh water ecosystems, address environmental flows or watershed management)
- Human health and sanitation

Further guidance for the format of the database will be provided by GWP-C staff to ensure they meet Information Technology (I.T.) requirements of the knowledge platform in which the database will be housed. However, it is anticipated that a simple format such as a Microsoft Excel database can be initially utilised by the consultant for further adaptation as needed for the knowledge platform.

The database will include community, national or regional (CARICOM or OECS) level initiatives. Initiatives can be research oriented, demonstration projects or showcase the development of appropriate infrastructure and technology. Initiatives should be ongoing, have been completed within the last ten (10) years, or expected to start in 2014 - 2016. It is anticipated that the onsultant will use primarily literature reviews to develop the database to be supplemented by interviews with relevant project staff as needed.

The database will form the basis for the more detailed assessment of the sustainability of a select number of the initiatives, for example those that:

- Have shown to be sustainable in the long term (e.g. have been adopted and replicated).
- Can contribute significantly to the goal of climate resilience in water resources management in the Caribbean.

The consultant will work with GWP-C staff to identify the case studies that will be included in the report, however it is anticipated that the report is likely to have a minimum of fifteen (15) detailed case studies. The detailed assessment and report is to be carried out using literature reviews e.g. project reports, interviews with project staff and interviews with relevant community members, non-governmental organisation (NGO) staff and government representatives that were involved in the project execution.

Deliverables

1. Database on IWRM initiatives that foster climate resilience in the Caribbean.
2. Report of an assessment on the sustainability of past IWRM initiatives that can help foster climate resilience in the Caribbean.

The consultant shall maintain close contact with the GWP-C WACDEP Manager in order to ensure deliverables have been interpreted as intended and to ensure that the manager is aware of any issues which may arise as the tasks progress.

Consultant Profile

The consultancy is open to either an individual or team of consultants. The consultant/s should have:

a. An excellent understanding of water resources and climate change issues in the Caribbean.
b. At least Masters level qualifications in water resources management, climate science, natural resources management or a related field. Teams with members who have Ph.D. level qualifications will be preferred, especially those teams with members who are teaching or carrying out research at a tertiary level academic institution.
c. Experience in developing case studies, lessons learnt documents and conducting project assessments.
d. Familiarity with recent Caribbean IWRM and climate change/climate variability initiatives.

Schedule

The deliverables should be completed by **May 22nd, 2014.**

Terms and Conditions

The contract will adhere to GWP-C standard terms and conditions.

Proposal Submission

Interested applicants are asked to submit a technical and financial proposal for the deliverables. Proposals must be submitted via e-mail by **midday of February 24th, 2014** to the GWP-C Regional Coordinator at info@gwp-caribbean.org.

GWP-C partners (or teams which include a GWP-C partner) are encouraged to apply. If a non-partner is selected for the consultancy, the consultant/s will be required to apply for GWP-C membership prior to the start of the consultancy. Please note that only shortlisted applicants will be contacted.