



STRENGTHENING INSTITUTIONAL CAPACITY FOR A RESILIENT CARIBBEAN COASTAL AND MARINE ENVIRONMENT (RCCAME) PROJECT

GA238 /REG

**CONSULTANCY SERVICES FOR THE DEVELOPMENT OF REGIONAL STRATEGY
FOR THE EXPANSION OF AIR QUALITY MONITORING AND PREDICTIONS**

REQUEST FOR EXPRESSIONS OF INTEREST

The Caribbean Institute for Meteorology and Hydrology CIMH has received financing from the Caribbean Development Bank (CDB) in an amount equivalent to one million, five hundred and forty-two thousand, and one hundred United States Dollars (USD1,542,100) towards the cost of “Strengthening Institutional Capacity for A Resilient Caribbean Coastal and Marine Environment (RCCAME) Project and intends to apply a portion of the proceeds of this financing to eligible payments under a contract for which this invitation is issued. Payments by CDB will be made only at the request of CIMH and upon approval by CDB and will be subject in all respects to the terms and conditions of the Financing Agreement. The Financing Agreement prohibits withdrawal from the financing account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of CDB, is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than CIMH shall derive any rights from the Financing Agreement or have any claim to the proceeds of the Financing.

CIMH, the Executing Agency, now wishes to procure a qualified and experienced individual to develop a regional strategy for the expansion of air quality monitoring and predictions in the Caribbean.

The objective of the consultancy is to develop a strategy for expanded air quality monitoring and predictions to support early warning systems and impact-based forecasting in the Caribbean region.

The contract will be for a total of 37.5 days over a duration not exceeding four (4) months.

The CIMH now invites eligible individual consultants to submit Expressions of Interest, in the form of a Curriculum vitae and a cover letter, indicating qualifications and experience required to provide these consultancy services.

Consultants shall be eligible to participate if:

- a. The persons are citizens or bona fide residents of an eligible country; and
- b. In all cases, the consultant has no arrangement and undertakes not to make any arrangements, whereby any substantial part of the net profits or other tangible benefits of the contract will accrue or be paid to a person not a citizen or bona fide resident of an eligible country. Eligible countries are member countries of CDB and is extended to countries eligible for procurement under the European Union (EU)-funded programme, which are not CDB member countries, in accordance with the [EU Eligibility Rules](https://www.caribank.org/sites/default/files/2023-) (<https://www.caribank.org/sites/default/files/2023->

[02/EU%20Eligibility%20Rules%20CARE%20Programme_Jan%202023.pdf](#)). Consultants are advised to review the detailed eligibility criteria detailed in Section 4 and conflict of interest provisions in Section 5 of the Procurement Procedures for Projects Financed by CDB (January 2021), as published on CDB's website. In the assessment of submissions, consideration will be given to qualifications and experience on similar assignments.

All information must be submitted in English. Further information may be obtained from the first address below between 9:00 am and 4:00 pm Monday to Friday.

An electronic copy of the Expressions of Interest must be submitted to the first address below with a copy to the second address no later than 4:30 pm Barbados Time on May 29, 2026. The subject line should read "*Expression of Interest – Air Quality Regional Strategy Consultancy*".

Following the assessment of submissions, the most technically capable and appropriately experienced applicant will be invited to negotiate a contract to provide the consultancy services. The CIMH reserves the right to accept or reject late applications or to cancel the present invitation partially or in its entirety. It will not be bound to assign any reason for not engaging the services of any applicant and will not defray any costs incurred by any applicant in the preparation and submission of Expressions of Interest.

1. Dr. David A. Farrell,
Principal
Caribbean Institute for Meteorology and Hydrology (CIMH)
Husbands
St. James, BARBADOS
Email: procurement@cimh.edu.bb.

2. Procurement Policy Unit
Caribbean Development Bank (CDB)
P.O. Box 408 Wildey
St. Michael, BARBADOS
Tel: 246-539-1600
Email: procurement@caribank.org



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DRAFT TERMS OF REFERENCE

CONSULTANCY SERVICES FOR THE DEVELOPMENT OF A REGIONAL STRATEGY FOR THE EXPANSION OF AIR QUALITY MONITORING AND PREDICTIONS

1. BACKGROUND

Air quality in urban centres in the Caribbean is declining due to increasing urbanization and associated anthropogenic factors such as exhaust from vehicular traffic with noticeable declines observed during rush hour periods. Air quality in such areas is also often impacted by dust generated from construction activities, local and global industrial activity. In the case of the latter, these changes over Barbados are being monitored through the Advanced Global Atmospheric Gases Experiment (AGAGE) facility at Ragged Point, St. Philip, managed by Bristol University. The AGAGE facility samples over 30 chemical species every 20 minutes. Locally, the Government of Barbados, similar to other Governments across the Caribbean, periodically monitors air quality across the island, including in urban areas. The need to monitor air quality over islands in the Caribbean was highlighted during the eruption of the La Soufriere volcano on St. Vincent and the Grenadines in which significant quantities of volcanic ash and gas covered significant portions of the island and neighbouring islands with little to no monitoring of air quality over affected islands - little ability to qualitatively link the decline in air quality to health impacts. Similarly, the decline in air quality during periods of elevated brush fire occurrences and the associated health impacts are not typically monitored and documented.

To support the more effective integration of air quality information into health early warning systems in the Caribbean, the CIMH, along with regional air quality monitoring partners and health sector professionals and institutions, established the Caribbean Aerosol and Health Network (CAHN). It is recognized that the CAHN has the potential to contribute significantly to improving the link between air quality and health outcomes in the Region. However, its full potential has not been achieved due to (a) the limited number of air quality observations on many islands in the region which limit the development and implementation of air quality early warning systems and (b) limited funding to support regional training workshops to facilitate interactions between the air quality community and the health sector community. The CIMH is in the process of procuring at least one high-quality air quality monitoring station through the EU funded ClimSA Programme - one to be placed on St. Vincent and the Grenadines and a possible second to be placed in Barbados. It is expected that these stations will form the cornerstones of emerging national air quality monitoring systems in both countries. In a complementary effort, at least two (2) air quality monitoring stations identical to those procured under the ClimSA Programme will be deployed in Belize and Jamaica to jumpstart expansion of systematic air quality measurements on those islands and transfer knowledge

through the CAHN to identify air quality products and services of interest to the health sector.

Over the last decade, the CIMH has embarked on programmes that support air quality monitoring and prediction across the region and have linked these to health and energy impacts. In 2017, the WMO designated the CIMH as the Pan American Node in its Sand and Dust Storm Warning and Advisory and Assessment System (SDS-WAS) platform. A key goal of the Node is to convert air quality data and information from disparate sources to actionable information for the health sector and other relevant sectors such as the energy sector.

2. **OBJECTIVES**

The focus of this consultancy is to develop a strategy for expanded air quality monitoring and predictions to support early warning systems and impact-based forecasting in the region and in particular the member states of the CIMH and borrowing member countries of the Caribbean Development Bank (CDB).

3. **SCOPE OF WORK**

3.01 Within the framework of the Caribbean Action for Resilience Programme, the specific duties and responsibilities of the consultant include:

- (a) The review of existing air quality monitoring and prediction platforms in the Region;
- (b) The development of a regional strategic framework for expanding air quality monitoring and predictions in the Caribbean; and
- (c) Integration of air quality monitoring and predictions into impact-based forecasting workflows

4. **QUALIFICATIONS AND EXPERIENCE**

4.01 The consultant should hold a BSc in either Atmospheric Science, Meteorology or related disciplines with a strong preference given to candidates with MSc and PhD degrees. In addition, the consultant should have:

- (a) At least seven (7) years of relevant professional experience with direct responsibility for the operation, management, development, or implementation of air quality monitoring and/or modelling platforms; including experience integrating air quality monitoring data and predictive products into impact-based forecasting workflows and decision-support systems.
- (b) Proven experience developing strategic frameworks
- (c) Experience working within developing countries, particularly in the Caribbean;
- (d) Excellent communication and interpersonal skills, with the ability to engage and collaborate with diverse stakeholders; and
- (e) Proficiency in English is essential. Proficiency in French or Dutch is an asset.

5. **REPORTING AND DELIVERABLES**

5.01 The Consultant will report to the Project Coordinator and is required to produce the following deliverables:

- (a) Inception Report summarising inception meeting findings. The report should also include an updated proposal/implementation plan for the consultancy.
- (b) Assessment Report - including a review of existing air quality monitoring and prediction platforms in the region.
- (c) Report on execution of consultation sessions with relevant regional stakeholders for the finalization of the regional strategic framework.
- (d) Regional strategic framework for expanding air quality monitoring and prediction.
- (e) Report/Presentation on regional strategic framework inclusive of the Integration of Impact-based Forecasting Workflows

6. **DURATION**

The contract will be for a total of 37.5 days over a duration not exceeding four (4) months.