



Request for Proposals: Development of Nairobi city-owned air quality data management system and publicly accessible air quality data portal.

Introduction

The Clean Air Fund is seeking proposals from qualified organizations to develop Nairobi city-owned air quality data management system and a publicly accessible air quality data portal. This project aims to address the current fragmented air quality monitoring in Nairobi and establish a comprehensive data infrastructure to inform policymaking and public awareness.

Background

Air quality monitoring in Nairobi is currently fragmented, relying heavily on third-party low-cost sensor networks. This fragmented approach results in isolated data points that fail to capture long-term trends, identify persistent pollution sources, and understand the full impact of air pollution on public health and society.

The lack of a centralized, city-owned data management system hinders effective air quality management. Policymakers lack the robust data evidence base required for informed decision-making. Additionally, limited public awareness regarding air pollution mitigation initiatives further complicates the issue.

Project Goal

This project will establish Nairobi city-owned air quality data management system and a publicly accessible air quality data portal. This system will enable Nairobi City County Government to:

- Collect and analyze air quality data.
- Generate regular reports tracking trends in air pollution temporally and spatially.
- Inform and align air quality management data with sectoral strategies and policymaking.
- Facilitate efficient communication with the public regarding air quality.
- Feed their air quality sensor data into international data aggregators, such as OpenAQ.

[Breathe Cities](#) was launched in June 2023 as a partnership between [Bloomberg Philanthropies](#), the [Clean Air Fund](#), and [C40 Cities](#) to save lives, improve health, and reduce air pollution that is both harmful to public health and the climate.

Clean Air Fund

Launched in 2019, the Clean Air Fund is a philanthropic initiative with a mission to tackle air pollution around the world. Our aim is to help build and support a powerful global movement for clean air. We achieve this by bringing together funders, researchers, policy makers and campaigners working on a wide range of issues to find and scale solutions that will provide clean air for all.

More information about the Clean Air Fund can be found on our website: www.cleanairfund.org.

Scope of Work

The project has two key outcomes:

Outcome 1: Development of a City-Owned Air Quality Data Management System

Outcome 1 Activities:

- Establish a joint steering and technical committee with Clean Air Fund, Nairobi City County Government, regional experts, and the implementing partner.
- Consult with key sectors (transport, waste, industry, environment, health, sanitation) and civil society to identify data needs and generate a report.
- Consult Clean Air Fund and Nairobi City County Government to identify data sources and establish the system's architecture.
- Design, test, and implement a data management system that includes an alert system for pollution spikes and system failure.
- Set up data quality assurance mechanisms, including monitoring and evaluation procedures.
- Conduct capacity building training for Nairobi City County Government officials, staff, and system operators on data management, system monitoring and maintenance, and report generation.
- Prepare and publish monthly reports of raw air quality data and snapshots for key stakeholders.
- Maintain the data management system regularly.

Outcome 2: Deployment of a Renewed Publicly Accessible Air Quality Data Portal

Outcome 2 Activities:

- Conduct stakeholder consultations with academicians, policymakers, and civil society to assess data and public accessibility needs (can be a joint consultation with Outcome 1).
- Design the user interface and user experience of the data portal, informed by the data needs assessment.
- Integrate the existing portal(s) with the new portal design.
- Test and deploy the data portal.
- Establish feedback mechanisms on the portal.
- Regularly publish data to the community in accessible formats to raise awareness about air pollutants, sources, and impacts.

Please note: Outcomes 1 and 2 are considered one integrated system with two functionalities.

Deliverables

The successful bidder will deliver the following:

1. A fully functional, city-owned air quality data management system.
2. A user-friendly and publicly accessible air quality data portal.
3. Comprehensive training and training materials/manuals for Nairobi City County Government staff on how to use and maintain quality data management system and air quality data portal.
4. Automatic report generation on air quality data and trends, including system alerts for pollution spikes.

Selection Criteria

Proposals will be evaluated based on the following criteria:

- Relevant experience of the firm in developing and implementing data management systems and public data portals.
- Qualifications and expertise of the proposed team, including experience with data management systems, data visualization, and web development.
- Technical approach and methodology for accomplishing the project objectives.
- Functionality and user-friendliness of the proposed system.
- Experience in consultations with government, the public, and CSO/grassroots organisations.
- Proposed implementation timeline and budget.
- Experience working in Kenya and familiarity with the local context.

A selection committee comprised of representatives from Clean Air Fund and Nairobi City County Government will review all proposals. Shortlisted applicants may be invited for presentations and further discussions. The selection committee reserves the right to reject any or all proposals.

Submission Instructions

Interested firms are invited to submit a proposal that clearly addresses the requirements outlined in this RfP. Proposals should include the following:

- A cover letter expressing interest in the project.
- Company profile and relevant experience.
- Proposed project team and their qualifications.
- Detailed technical approach and methodology.
- Implementation timeline and budget breakdown.
- References from past projects.

Proposals should be limited to 10 pages, not including a cover page/letter and attachments. All applications must be submitted in Microsoft Word format with margins not less than one inch. Text type must be 11 point or larger.

Any questions on the RfP should be submitted via email to lakinyi@cleanairfund.org by COB 10 October 2024. The deadline for submission of proposals is COB on 21 October 2024. Proposals must be submitted via email to lakinyi@cleanairfund.org and cc vindasi@cleanairfund.org.

Project Budget

Total project costs, including all applicable taxes and other 'hidden' costs should not exceed 110,000.00 US Dollars. All costs incurred in connection with the submission of this RfP are non-refundable by Clean Air Fund.

Activity Deadline

RfP published	20 September 2024
Deadline for questions	10 October 2024
Deadline for proposals	21 October 2024
Review of proposals and decision on preferred bidder	30 October 2024
Proposal finalisation and agreement	20 November 2024
Project start	1 January 2025
Project end	30 August 2026