



**Kenya Biogas Program  
Terms of Reference  
Data Verification for Carbon Monitoring Survey**

In Collaboration With



Kenya Biogas Program (KBP)

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## 1. Introduction

Biogas digesters allow the production of sustainable fuel from organic waste through anaerobic digestion. The biogas can be used as a clean source of cooking fuel while the slurry from the digester is a very good fertiliser.

The *Africa Biogas Partnership Programme (ABPP)* is a partnership between Hivos and SNV in supporting national programmes on domestic biogas in five African countries. The Programme aims at constructing 100,000 biogas digesters in Ethiopia, Kenya, Tanzania, Uganda, and Burkina Faso providing about half a million people access to a sustainable source of energy by the year 2019.

The overall objective of the ABPP is to contribute to the achievement of the Sustainable Development Goals through sustained construction of domestic biogas digesters as a local, sustainable energy source. This will be fulfilled through development of a commercially viable and market-oriented biogas sector.

The Programme is financially supported by the Directorate General for International Cooperation (DGIS) of the Dutch Ministry of Foreign Affairs and SNV – Netherlands Development Organisation. Hivos carries out the role of fund and programme manager, operating from Nairobi. SNV provides capacity building services in the five countries and takes responsibility for knowledge management at the international level.

The *African Biogas Carbon Programme (ABC)* operates following the rules and regulations of the Gold Standard<sup>1</sup> as a Programme of Activities (PoA) to certify the reduction of greenhouse gas emissions resulting from the operation of the biogas digesters. Hivos is the Coordinating/Managing Entity of the PoA. The PoA covers Kenya, Tanzania and Uganda. The *African Biogas Carbon Programme (ABC) – Kenya* is the first Voluntary Project Activity (VPA1) of the PoA. The programme aims to install biogas digesters with stoves in households that have been using non-renewable biomass and fossil fuels as their main source of cooking fuel.

The emission reductions achieved through the VPA will generate carbon credits, the revenue from which will be used to support the Kenya Biogas Programme (KBP) to make biogas digesters accessible and more affordable for use in households. In order to verify that emission reductions have been achieved, the outcomes of the surveys carried out under this assignment will be carefully scrutinized by an independent third party during both an on-site visit and follow-up interviews with staff involved in the survey, as well as cross-checking of all raw data and analysis to ensure no errors are present.

KBP is seeking assistance to undertake the survey, fill in any missing data required to calculate and monitor emission reductions by African Biogas Carbon Programme (ABC) – Kenya – VPA1 (for digesters installed from 2009 until 2013) and VPA6 (for digesters installed since 2014) and compile the CMS 2018 report

<sup>1</sup> <http://www.goldstandard.org/>

## 2. Objectives

The objectives of the assignment is to verify data quality and fill in any gaps that are required to fulfil carbon monitoring survey requirements as stipulated by the Gold Standard for successful monitoring and verification of the emission reductions accumulated under KBP activities

## 3. Scope of Work

The consultant will conduct the following tasks:

- a) **Desk review**-After awarding the contract, the consultant will start with a desk review of database inn consultation with KBP
- b) **Preparations for data collection**-The consultant will select a field survey team and conduct an intensive training for all team members. The consultant shall establish a procedure to control reliability of data collected in the field.
- c) **Data collection** -The consultant, with his team will fill in all missing data in the database through physical verification of the households.
- d) **Data Quality Verification Report 2018**-Based on the former tasks, the consultant prepares the summary report for the Data quality verification exercise. The final report should contain the following table of contents:
  - Executive Summary;
  - One chapter with a detailed and verifiable description of the methodology, sampling process, training of surveyors and implementation of each survey;
  - Several chapters analysing the Findings and observations made during the exercise
  - Challenges
  - Conclusions and Recommendations.
- e) **Re-contracting through issuance of Certificate of Warranty for all visited households**  
Certificates of warranty shall be given to the households visited. The consultant shall ensure the certificates are all signed by the households, and the copies remaining are submitted to KBP. Out of the phone interviews, Ecofrontier shall seek to ask whether the household has any certificate signed under KBP and report the same to KBP.

## 4. Expected output (deliverables)

- a. **Taroworks** -The Taroworks mobile app will be used for data collection in the field. The consultant will ensure the team is well versed with the use of the PCR tool to collect the data.
- b. **Raw data files and hard copies of completed verification forms**-The consultant should provide hard copies of all plants not visited with reasons for the same in excel sheets with the raw data for input into the final report.
- c. **Draft data verification Report**-The consultant will present a draft Report and request feedback from KBP. KBP will provide feedback within 2 weeks (or 10 working days) after delivery.

- d. **Final data verification Report**-The final report will be approved if satisfactory by KBP.
- e. **Certificate of Warranty** -The consultant shall provide a report on how many households were issued with the certificates for signing, as well as capture images of the copies of the signed certificates. It is expected that regardless of the status of the digesters, 100% of visited households shall be issued with the certificates during the field visit and the same shall be signed by the households.

## 5. Time schedule.

The assignment is planned for the period April to 30 July 2018. A draft report should be ready by 30<sup>th</sup> June 2018. The target date for the final report is 30 July 2018.

The consultant is expected to propose a time schedule at the start of the assignment with intermediate milestones (selection of data collectors/ field survey team, sampling, testing of questionnaire, field data collection, data cleaning and entry, data processing, cleaning and analysis, draft report writing, revision of report).

### Interested?

Submit CV, portfolio of previously done assignments and financial proposal to the email below; info@kbp.co.ke by 2nd May 2017