TERMS OF REFERENCE

National Consultant/expert for the Initiative for Climate Action Transparency (ICAT)

Project Name: *Expansion of the National GHG Inventory Management System and Data institutionalization for NDC tracking and policymaking*

1. Background

The project will focus on building Fiji's capacity in:

- implementing the IPCC good practices in activity data collection for livestock category;

- Addressing HFC emissions from using of the ODS substitutes in Fiji in compliance with the 2006 IPCC methodology and good practice

- Rising awareness of the mitigation potential associated with the use of biogas facilities in the waste sector, and measuring the performance of the targeted climate policies and actions in the agriculture sectorThe specific project goals are:

- Further improving the capacity of Fiji in the agriculture inventory sector addressing the core issue with the activity data collection in the agriculture sector identified in Phase I of the project and enabling robust activity data collection for livestock for the government Extension Officers.

- Extending the methodology for the national systems, previously used for the agriculture sector, to the biggest source category of the IPPU sector – Ozone depleting substances to enable the framework for sectoral data collection, processing and reporting as well as provide the robust data and information base for policymaking;

- Building capacity to calculate emissions from key ODS emission sources (refrigeration and air conditioning) using 2006 IPCC methodology to promote the growth of domestic climate MRV expertise in the sector.
- Enhancing mitigation efforts of Fiji in relation to municipal and industrial waste treatment and utilization through estimating the GHG impact of the currently running and known new biogas projects, and estimating the GHG mitigation potential of such projects in Fiji in consistency with the waste sector data in the national GHG inventory

2. Objective of the assignment

This position will provide technical support to the project on behalf of Fiji encompassing expansion of the National GHG Inventory Management System and Data institutionalization for NDC tracking and policymaking for the prioritized sectors and categories (agriculture, ODS, and solid waste disposal).

3. Scope of Work
    i. Contributing author to:
        a. Livestock data collection templates for the GHG inventory for the agriculture sector.
        b. Livestock survey draft and the instruction manual to the survey.

    c. Data flow diagram from collection to compilation for the ODS subsector (RAC category) and the National guidance for estimating HFC emissions from the consumption Ozone depleting substances and their blends in refrigeration and air conditioning (RAC) category.

    d. A report on the GHG mitigation potential of the biogas projects for Fiji.

  ii. Production of the Fiji national GHG inventory for two subsectors of the agriculture sector (under the GHGMI/GRA guidance).

    a. RAC category (HFCs) and the baseline for the Kigali Amendment to the Montreal Protocol.

    b. Solid waste disposal on land category.

  iii. Perform analysis of the mitigation potential of the biogas projects for solid waste disposal on land.

  iv. Identify required data sets and the relevant institutional arrangements to enable the relevant data collection and processing in the future for:

    a. Refrigeration and air conditioning.

    b. Solid Waste disposal on land.

    c. Biogas projects.

  v. Provide feedback to key project reports and outputs as per the project plan.

  vi. Participate in the interim discussions and liaise with the project technical resource team from Greenhouse Gas Management Institute.

  vii. Undertake training as per the project plan.

4. Output/Reporting Requirements/Deliverables

Deliverable 1 – Fiji's inventory for the two prioritized subsectors (under the GHGMI/GRA guidance)

- RAC category (HFCs) and the baseline for the Kigali Amendment to the Montreal Protocol.

- Solid waste disposal on land category using the best available data using tier 1 methodology from the 2006 IPCC Guidelines.

Deliverable 2 – Best available data sets for calculating GHG inventory for the following subsectors:
- Refrigeration and air conditioning.
- Solid Waste disposal on land.
- Biogas projects.

Deliverable 3 – Data flow diagram from collection to compilation for the Fiji ODS subsector (RAC category) and the National guidance for estimating HFC emissions from the consumption Ozone depleting substances and their blends in refrigeration and air conditioning (RAC) category.

Deliverable 4 – Data collection templates for the Livestock.

Deliverable 5 – Instruction manual for livestock survey.

Deliverable 6 – Livestock survey draft.

Deliverable 7 – A report on the GHG mitigation potential of the biogas projects for Fiji.

Deliverable 8 – Contribute to the project technical workshops on:

- Agriculture survey for extension Officers.

- ODS – Refrigeration and air conditioning.

- Mitigation potential of the biogas projects for solid waste disposal on land.

Deliverable 9 – Contribute to the project lessons learnt workshop.

Deliverable 10 – Feedback to the final project report.

5. Reporting

All reports must be in English, prepared in accordance with the ICAT general requirements, and submitted in electronic formats along with complete sets of raw data, research materials and related information.

During the fulfillment of the assignment, the consultant/expert will ensure regular communication with the National Consultant/project coordinator and GHGMI project team as required, and will ensure a timely delivery of the expected outputs. The consultant/expert will report to the Fiji National Consultant/project coordinator under the general guidance and supervision of the ICAT project manager (GHGMI).

6. Qualifications/ Experience/ Expertise
- Advanced degree (Masters or Ph.D.) in a relevant field, such as Science, Environmental Policy, Engineering, Development Economics, Environmental economics, Environmental technology, or any related qualification.
- At least 3 years of technical experience in the agriculture sector.
- Strong interest and familiarity with projects or research associated with HFCs consumption and emissions and strong interest in their inventory and data institutionalization.
- Excellent team player.
- Exceptional analytical and quantitative skills, alongside strong synthesis skills.
- Strong interest in climate change mitigation in the waste sector.
- Ability to apply sufficient analytical and technical skills to acquire relevant information/knowledge from a variety of sources which are often difficult to access, in support of delivery of good quality output.
- Strong MS Excel skills, intermediate Word and PowerPoint skills.
- Excellent written and spoken communications skill in English is required.

7. Duration of Contract
The overall duration of the assignment is spread over a period of 10 months from the date of contract signature.
- Start date: February 2024