

## Terms of Reference: Student Researcher for Literature Review of Greenhouse Gas Inventory Capability Building Programme

### Background

In 1993, the Republic of Fiji ratified the United Nations Framework Convention on Climate Change (UNFCCC), committing to global efforts to limit temperature increases and address climate impacts. As part of its obligations, Fiji is required to regularly report on its national emissions, climate change commitments, and actions.

The Ministry of Environment and Climate Change (MECC) is currently implementing a Greenhouse Gas (GHG) Inventory Capability Building Programme for the Agricultural Sector. This programme aims to strengthen Fiji's abilities to identify, plan and implement the Paris Agreement's Enhanced Transparency Framework (ETF) and agricultural measures aligned with Fiji's Nationally Determined Contribution (NDC) targets. A key component of this project is the development of a Tier 2 GHG Inventory according to the Intergovernmental Panel for Climate Change guidelines for enteric fermentation from beef cattle and goats, and for swine and poultry manure management.

To support this development, a comprehensive literature review of regional and national research relevant to Fijian livestock emissions is required. This review will help identify existing emission factors, data gaps, and research priorities that are specific to Fiji's agricultural context. The review will also contribute to the ongoing work under the Australian Centre for International Agricultural Research (ACIAR) project on dairy cattle.

### Scope of Work

The student researcher will conduct a comprehensive literature review of regional and national research relevant to Fijian livestock greenhouse gas emissions. This includes:

1. Identifying and reviewing relevant scientific literature, reports, and other publications related to livestock emissions in Fiji and similar regional contexts.
2. Analyzing and synthesizing the collected information to identify key findings, trends, and gaps in current knowledge to inform future research projects.
3. Preparing a manuscript based on the literature review findings.
4. Contributing to the submission of findings to the Intergovernmental Panel on Climate Change (IPCC) Emission Factor Database, if appropriate.

## Deliverables

<b>GHG Inventory Capability Building Programme for the Agricultural Sector Project</b>	
Detailed literature review plan and methodology	20% of the remuneration
Draft literature review report	40 % of the remuneration
Final literature review report and manuscript	40% of the remuneration

## Duration

This research project is expected to be completed within 3 months (65 working days), starting from January 2024. The total remuneration for the student researcher is FJD13,550.13 for the duration of the project.

## Qualifications and Experience

1. A Postgraduate/Master's degree in Environmental Science, Agricultural Science, Chemistry, Biology, Climate Change Studies, Sustainable Development or a closely related field with a focus on climate change and agriculture
2. Demonstrated research skills and experience in conducting literature reviews.
3. Excellent analytical and critical thinking abilities.
4. Strong writing skills in English, with experience in academic writing and proper citation methods.
5. Familiarity with greenhouse gas inventories and agricultural emissions is highly desirable.
6. Proficiency in using academic databases and research tools.
7. Experience with data analysis and interpretation, particularly in environmental or agricultural contexts.
8. Ability to work independently and meet deadlines.
9. Strong organizational skills and attention to detail.
10. Proficiency in using Microsoft Office, particularly Excel for data management.
11. Previous experience or coursework related to climate change policy, UNFCCC reporting, or national GHG inventories would be an advantage.
12. Ability to communicate complex scientific concepts clearly and concisely.

## To apply

1. A cover letter addressed to the Permanent Secretary with subject: "EOI – Student Researcher for Literature Review - Greenhouse Gas Inventory Capability Building Programme" expressing interest and rationale for your suitability for the research project.
2. A brief proposal discussing your approach to conducting the literature review, a timeline, and any relevant experience or skills you would bring to the project.
3. A detailed CV highlighting qualifications and relevant academic or research experience.
4. Academic transcripts.
5. A writing sample demonstrating research and analytical skills.

## Application Process:

Interested students are invited to submit their Expression of Interest (EOI) by 4 pm (Fiji Time), 24 January, 2025.

For the Term of Reference (TOR) inquiries or additional information and submission of EOI, please contact: Ms Ranjila Singh on [ranjila.singh@environment.gov.fj](mailto:ranjila.singh@environment.gov.fj)

MECC is an equal opportunity employer and encourages applications from all qualified individuals.