

REQUEST FOR TENDERS

RFT: 2021/078
File: AP1/1
Date: 1 October, 2021
To: Interested suppliers
From: Rupeni Mario – Project Coordination Unit

Subject: **Study to inform the development of a project concept note on Financing Climate Smart Landscapes for Building Resilient Livelihoods in Agriculture and Forest Ecosystems in East New Britain and New Ireland Provinces, Papua New Guinea**

1. Background

- 1.1. The Secretariat of the Pacific Regional Environment Programme (SPREP) is an intergovernmental organisation charged with promoting cooperation among Pacific islands countries and territories to protect and improve their environment and ensure sustainable development.
- 1.2. SPREP approaches the environmental challenges faced by the Pacific guided by four simple Values. These values guide all aspects of our work:
 - We value the Environment
 - We value our People
 - We value high quality and targeted Service Delivery
 - We value Integrity
- 1.3. The “Financing Climate Smart Landscapes for Building Resilient Livelihoods in Agriculture and Forest Ecosystems in East New Britain and New Ireland Provinces, Papua New Guinea” is a Green Climate Fund (GCF) proposed project with the Secretariat of the Pacific Environment Programme (SPREP) as the accredited entity.
- 1.4. For more information, see: www.sprep.org.

2. Specifications: statement of requirement

- 2.1. SPREP would like to call for tenders from qualified and experienced Firm /Consultant(s) to undertake the study.
- 2.2. Tenderers will need to provide a comprehensive proposal as outlined in the attached Terms of Reference (ToR) (Annex A). It is expected the study will take place in November 2021 – March 2022. The actual timeframe will be firmed up with the successful bidder.

2.3. The information provided are:

- Annex A: Terms of Reference (ToR)
- Annex B: List of Stakeholders and contact details
- Annex C: GCF Investment Criteria
- Annex D: Draft Project Summary

2.4. The successful firm /consultants must supply the services to the extent applicable, in compliance with SPREP's Values and Code of Conduct.

https://www.sprep.org/attachments/Publications/Corporate_Documents/sprep-organisational-values-code-of-conduct.pdf

3. Conditions: information for applicants

3.1. To be considered for this tender, interested suppliers must meet the following conditions:

- Provide a comprehensive proposal (Technical and Financial) responding to the requirements in the attached terms of reference and as outlined in Section 4 below;
- Provide CVs of the personnel who will be undertaking the study and a description of their respective roles in the study;
- Provide three references relevant to this tender submission, including the most recent work completed;
- Complete and sign the Application Form; and
- Sign the **Conflict of Interest form** provided.

4. Submission guidelines

- Tender documentation should demonstrate that the interested supplier satisfies the conditions stated above and is capable of meeting the specifications and timeframes. Documentation must also include supporting examples to address the evaluation criteria.
- Tender documentation should outline the interested supplier's complete proposal:
 - Technical Proposal responding to the requirements, including details to achieve the tasks as outlined in the Terms of Reference.
 - CVs of the proposed personnel highlighting experience relevant to the tender and their respective roles in the study.
 - Financial proposal to outline all costs associated with the undertaking of the study including professional fees, PNG-based travel costs, communications and miscellaneous costs inclusive of all taxes.
- Tender submission must be in United States Dollars (USD).
- Complete the Application Form
- Complete the COI form provided, this is annexed to the Application Form.
- The Proposal must remain valid for 90 days from date of submission.
- Provide three referees relevant to this tender submission, including the most recent work completed.
- Tenderers/Bidders must insist on an acknowledgement of receipt of tenders/proposals/bids.

5. Tender Clarification

- 5.1. Any clarification questions from applicants must be submitted by email to procurement@sprep.org before 18 October 2021. A summary of all questions received with associated response will be posted on the SPREP website www.sprep.org/tender by 20 October 2021.

6. Evaluation criteria

- 6.1. SPREP will select a preferred supplier on the basis of SPREP's evaluation of the extent to which the documentation demonstrates that the tenderer offers the best value for money, and that the tenderer satisfies the following criteria.
- a) **Technical Proposal (80%)**
 - i. Proposed methodology to undertake the study.
 - ii. A plan to undertake the study including an outline of the specific deliverables (reference Payment Schedule in the ToR) and timelines
 - iii. Outline of team members' experience in conducting feasibilities or assessments in accordance with donor requirements.
 - iv. Team composition including roles and experience in meeting at a minimum the qualifications outlined in the ToR.
 - b) **Financial Proposal (20%)**

Financial proposal to outline all costs associated with the undertaking of the study including professional fees, PNG-based travel costs, communications and miscellaneous costs inclusive of all taxes

7. Deadline

- 7.1. **The due date for submission of the tender is: 29 October 2021, midnight (Apia, Samoa local time).**
- 7.2. Late submissions will be returned unopened to the sender
- 7.3. Please send all tenders clearly marked 'RFT 2021/078: "Study to inform the development of a project concept note on *Financing Climate Smart Landscapes for Building Resilient Livelihoods in Agriculture and Forest Ecosystems in East New Britain and New Ireland Provinces, Papua New Guinea*" to one of the following methods:

Mail: SPREP
Attention: Procurement Officer
PO Box 240
Apia, SAMOA

Email: tenders@sprep.org (MOST PREFERRED OPTION)

Fax: 685 20231

Person: Submit by hand in the tenders box at SPREP reception,
Vailima, Samoa.



Note: Submissions made to the incorrect portal will not be considered by SPREP. If SPREP is made aware of the error in submission prior to the deadline, the applicant will be advised to resubmit their application to the correct portal. However, if SPREP is not made aware of the error in submission until after the deadline, then the application is considered late and will be returned unopened to the sender.

SPREP reserves the right to reject any or all tenders and the lowest or any tender will not necessarily be accepted.

For any complaints regarding the Secretariat's tenders please refer to the Complaints section on the SPREP website <http://www.sprep.org/accountability/complaints>



Annex A: Terms of Reference

STUDY TO INFORM THE DEVELOPMENT OF A PROJECT CONCEPT NOTE

Proposed Project

Financing Climate Smart Landscapes for Building Resilient Livelihoods in Agriculture and Forest Ecosystems in East New Britain and New Ireland Provinces, Papua New Guinea



SPREP PROE

Contents

1.	Introduction	7
1.1.	Proposed Project Background	7
1.2.	Purpose of the Study	7
1.3.	Expertise Sought	7
1.4.	Stakeholders for the Study	7
2.	Scope of the Study	8
2.1.	Scoping	8
2.2.	Economic and Financial Assessment	8
2.3.	Feasibility Assessment	8
2.4.	Review of Project Concept Note	9
3.	Methodology	10
4.	Deliverables / Expected Outputs	10
5.	Qualifications of the Firm/Consultant(s)	10
6.	Schedule of the Assignment	11
7.	Payment Schedule	11
8.	Management Arrangements for the Review	11

INTRODUCTION

1.1. Proposed Project Background

The proposed project, *Financing Climate Smart Landscapes for Building Resilient Livelihoods in Agriculture and Forest Ecosystems in East New Britain and New Ireland Provinces, Papua New Guinea*, will promote climate-smart landscapes in vulnerable island communities. The project aims to:

- (i) Enhance agricultural extension and promote climate smart field schools;
- (ii) Recognise and apply traditional ecological knowledge;
- (iii) Increase awareness of climate change impacts and potential options for food security;
- (iv) Increase use of drought resistant agricultural and agroforestry systems including Crop models and commodities; and
- (v) Promote and implement soil conservation measures to reduce erosion/ runoff during increased rainfall to reduce impact on downstream marine ecosystems.

The project will champion more productive and resilient agriculture and agroforestry based on sound management of natural resources, including land, water, soil, and biodiversity. Climate change threatens the sustainability of current uses of the island landscapes from ridge to reef, which in turn undermines food security and reliance on traditional coping mechanisms of the affected communities.

A draft project concept note has been developed with initial comments from the GCF. A copy of the draft concept note will be made available to the successful bidder and can be used as a basis for the revised submission.

1.2. Purpose of the Study

The study is intended to inform the development of a concept note and resubmitted to the Green Climate Fund (GCF) as well as the subsequent preparation of a full funding proposal. The minimum required information for these purposes is outlined in the scope of this terms of reference (ToR).

1.3. Expertise Sought

SPREP as the accredited entity for the proposed project will recruit consulting services to conduct a feasibility study to inform the development of a concept note to be submitted to the GCF and to underpin the subsequent development of a full funding proposal.

The firm/consultant(s) must have a strong knowledge of, and experience on, climate-related feasibility studies and financial /economic analysis in the area of climate smart landscapes and developing concept notes for major climate change funds (e.g., GCF, Adaptation Fund (AF), and Global Environment Facility (GEF)). The firm /consultant(s) must also have a good understanding of climate change, climate smart landscape systems, economics, finance and regulation, and the government processes in PNG.

1.4. Stakeholders for the Study

A list of stakeholders with contact details are provided in Annex B.

2. SCOPE OF THE STUDY

The scope will cover all activities to inform the development of the concept note for the proposed project, *Financing Climate Smart Landscapes for Building Resilient Livelihoods in Agriculture and Forest Ecosystems in East New Britain and New Ireland Provinces, Papua New Guinea*.

Under the guidance of the SPREP Project Coordination Unit (PCU), the firm/consultant(s) will deliver the tasks below:

2.1. Scoping

Collect and compile relevant documents and data (e.g., national and provincial government plans and policies, climate risk assessments, demographic and socioeconomic information, previous project evaluations, other ongoing or proposed project documents such as the UNDP/GEF Small Grants on land use, biodiversity and conservation and World Bank PNG Agriculture Commercialisation and Diversification Project) that will inform the feasibility of the proposed project.

2.2. Economic and Financial Assessment

Assess the economic and financial efficiency and viability of the proposed project by ensuring that financial and human resources are allocated efficiently and that the project will bring long term, sustainable benefits to the participating provinces. The assessment will include:

1. Analysis of the provincial and national economic context – analyse the development context, relevant sector policies and strategies and how the proposed project fits into this context, Also, analyse the potential evolution of the national and provincial economy and the likely impact on the proposed project and government budget position, etc.
2. Description of how the proposed project will contribute to addressing the economic and social development needs of the participating provinces and the affected population
3. Identification of the rationale for public financing (i.e., GCF involvement through grant, government co-financing and where practicable private sector participation)
4. Identification of the most efficient and effective development and technological options (e.g., a summary of agriculture and agroforestry models) available for addressing the identified problem
5. Estimation of the economic cost-benefit ratio associated with the proposed project and for each project component
6. Assessment of the project sustainability, how the proposed project can catalyse impact beyond a one-off investment, potential for replication and scaling up in other parts of PNG, and expected co-benefits (e.g., economic, social, environmental and gender empowerment)
7. Assessment of the ability of key partners to operate and maintain the project assets /equipment and long-term management and financing plan including an operations and maintenance (O&M) plan

2.3. Feasibility Assessment

Specific tasks include:

1. Identify and analyse all the necessary information and documents (collated in 2.1 and 2.2) to fully understand the national and provincial context, challenges, priorities and capacities with regard to climate smart landscapes
2. Analysis of existing and planned initiatives that will help to inform the proposed concept note
 - Provide an overview of frameworks (national and provincial) related to climate finance and climate smart landscapes
 - Mapping key stakeholders in the sector(s) /focus area of the proposed project at the national and provincial levels
 - Identify collaboration opportunities with the proposed project and possible sources of co-financing
 - Conduct: (i) an analysis of national and provincial environmental and social management frameworks (policy, legislation, regulation) and gender policy; (ii) analysis of technical feasibility of proposed infrastructures that may be associated with the proposed project and assessment of alternatives as appropriate; (iii) analysis of project execution and institutional arrangements at the national and provincial levels; (iv) provide the project economic efficiency and financial viability based on the findings from 2.2 Economic and Financial Assessment, and (vi) provide details on project compliance with GCF investment criteria (reference Annex C)
3. Conduct a market analysis to identify key commodities and models for subsistence and for future income generation, e.g., what is a crop that villagers can include in agroforestry systems, this would also have linkages to the private sector firm in the Annex B that buys from cooperatives.

2.4. Review of Project Concept Note

Based on the outcomes of the feasibility assessment including the extensive consultations, review the existing contents of the draft concept note. The revised concept note is to ensure that the following are also addressed. Annex D provides a summary of the proposed project. The draft project concept note will be made available to the successful bidder.

- The project scope to adequately respond to, *demonstrate value-added agroforestry and sustainable production systems and encourage and equitably empower women and girls to make informed decisions, drawing on the traditional wisdom and expertise.*
- Expand and clearly present project activities and baselines to consider a “ridge to reef” approach.
- A small grants mechanism for farmers to upscale /participate in the project approaches is proposed as a component. Outline parameters on how such a fund can be sustained, replicated and or expanded across PNG.
- There is a dedicated component for the demonstration of climate smart landscapes with “demo-farms”, climate field schools and development of a climate smart landscape framework proposed, amongst others. The review to outline how best to establish these (e.g., by size, the ecotypes, who should these demo farms be linked to, who are the owners, etc.), what are the gaps and provide additional details to address the GCF comments in the draft concept note.
- Clearly identify the project components and activities to be included and prepare a spreadsheet covering all the likely costs.

3. Methodology

The firm/consultant(s) is required to propose the methodology to be used to carry out the study in their proposal. The proposed methodology should sufficiently address the scope and questions outlined within this ToR, specifying the specific issues, questions, methods of data and information collection and analysis that will be undertaken. It should encompass a combination of both qualitative and quantitative methods. It should also allow for wide consultation with all key stakeholders.

4. Deliverables / Expected Outputs

The key outputs of the study are:

- a) **Inception Report** detailing the following:
 - i. A comprehensive description of the understanding of the ToR and indicating any major inconsistency or deficiency in the ToR and proposed amendments
 - ii. An updated detailed methodology for the study based on initial consultations
 - iii. A complete work plan for the entire study period. The firm/consultant(s) shall develop and submit a detailed schedule for the assignment and distribute the days accordingly among the different tasks
 - iv. Draft template containing the Table of Contents for the Study Report
 - v. Tentative list of relevant documents and data /information (collated from 2.1 and 2.2 of the scope of the study) with a summary of their contents

This report will be presented and discussed with the SPREP Project Coordination Unit.

- b) A **draft Study Report** documenting findings and recommendations as outlined in 2.2-2.4 of the scope of the study including facilitating a session to discuss the contents of the draft report with the SPREP Project Coordination Unit.
- c) **Final Study Report:** This report shall be submitted within 10 working days of receiving comments on a draft report. The final report should respond in detail to the key focus areas described above. It should include all relevant data and information, and recommendations to inform the development of a concept note for the proposed project. The report shall be written in English.
- d) A **revised Concept Note** addressing the GCF comments including those specified in 2.4, above.

5. Qualifications of the Firm/Consultant(s)

The firm/consultant(s) will consist of at least one member of the team (Team Leader) to have minimum 10 years of experience related to international development / climate change projects /climate smart landscape related areas. At least one member of the team must be based in PNG and can travel to the East New Britain and New Ireland provinces to lead the in-country stakeholder consultations and engagement.

- Prior experience in developing projects of a similar nature and scope;



- Experience in conducting feasibility studies to inform project development including demonstrated experience in report writing and familiarity with climate financing;
- At least a masters degree in climate change adaptation or resilience, environmental science or natural resource management, agriculture, agroforestry or food systems;
- The Team Leader will have expertise in one of the technical areas and demonstrated experience in project development;
- The role of the Team Leader will be guiding, managing and leading the team to address the scope of the study;
- Excellent English communication skills. It would be an advantage for the PNG-based team member(s) to be fluent /familiar with the local dialect.

6. Schedule of the Assignment

The study will be carried out over 60 working days and is scheduled to take place in the period between November 2021 and March 2022.

7. Payment Schedule

The firm/consultant(s) shall be paid agreed consultancy fees upon completion of the following milestones:

- 20% after submission and presentation of the inception report
- 30% after submission and presentation of the draft study report
- 20% after SPREP approval of the final study report
- 30% after SPREP approval of the revised project concept note

8. Management Arrangements for the Review

The SPREP Project Coordination Unit will provide the overall management and coordination role of the study.

Annex B: List and Contacts of Stakeholders for the Study

1. Ministry /Department of Agriculture, National and Provincial levels including Training Institutions and Extension Service

National Government		
<p>Department for Community Development & Religion P.O Box 7354 Boroko N.C.D Sambra Investment House, Kumul Avenue, Waigani, National Capital District, Papua New Guinea Email us at: info@dfcdr.gov.pg Telephone: + (675) 301 0200</p>	<p>Climate Change Development Authority (CCDA) Ruel Yamuna, Managing Director Dynasty Tower, Savannah Heights, Waigani Drive' P.O. Box 4017, Boroko, NCD, Port Moresby. Ruel.yamuna@ccda.gov.pg or ryamuna959@gmail.com</p>	<p>Department of Agriculture and Livestock P.O. Box 2033, Port Moresby, National Capital District, Papua New Guinea. Phone : (675) 300 7825 Central Government Building, Level 2B, Kumul Avenue, Waigain, National Capital District http://www.agriculture.gov.pg/</p>
<p>CEPA (Conservation and Protection Authority) Papua New Guinea (headquarters) · Port Moresby · Level 1, Bemobile Building, WAIGANI Dr. Port Moresby</p>	<p>PNG National Disaster Centre Level 01, Kitpeng Building- Waigani Drive P.O Box 4970, BOROKO National Capital District Papua New Guinea Phone: (675) 301 4700/4711 Fax: (675) 301 4747 Email: info@pngndc.gov.pg or webmaster@pngndc.gov.pg</p>	<p>DHERST (Department of Higher Education and Research) P.O Box 5117 Boroko 111 National Capital District PAPUA NEW GUINEA (675) 301 2049 info@dherst.gov.pg (675) 325 8386/8406 Dr. Jan Czuba, Director General</p>
<p>NFA (National Fisheries Authority) National Fisheries Authority Kina Haus, 11th Flr, Douglas St P.O. Box 2016 Port Moresby National Capital District, Papua New Guinea Ph: (675) 309 0444 / 309 0461 Fax: (675) 320 206</p>	<p>The Institute of Sustainable Marine Resources National Fisheries College P.O. Box 239, Kavieng New Ireland Province, Papua New Guinea Email: Ph: (675) 984 2187 / 984 1249 Fax: (675) 984 2343</p>	<p>National Fisheries College P.O Box 239, Kavieng, New Ireland Province, PNG Ph: (675) 9482187</p>
<p>University of Natural Resource & Environment (UNRE) Vudal /Vunapalading Road Private Mail Bag Kokopo, ENBP, PNG Contact: Professor Dan Orchardton Dan Orchardton Email: orchertonandsudario@gmail.com</p>	<p>Vunamami Farmers Training Centre Warongoi Rd, PO Box 137, Kokopo. City, Rabaul. ENB, PNG Phone: (675) 982 3149</p>	<p>Rabaul Eco- Tech Training Centre, Kokopo ENBP Mr. Francis Toleba OISCA International 17-5 Izumi 2-chome, Suginami-ku, Tokyo 168-0063 Japan TEL +81-3-3322-5161 FAX +81-3-3324-7111 EMAIL oisca@oisca.org</p>

2. Commodity Boards and Agencies (Private Sector) – Non Deforestation Supply Chains?

Oil Palm Industry Corporation PO Box 3216, Boroko National Capital District Papua New Guinea Phone: (675) 323 1511 / 323 1562 Fax: (675) 323 1573	PNG Rubber Board Level 3, Central Government Office, Kumul Avenue, Waigani Department of Agriculture & Livestock P O Box 2033, Port Moresby National Capital District Phone: (675) 300 7898	Cocoa Board of PNG Kokopo Town Section 34, Allotment 11, Balivo Street P O Box 532, ENBP Ph: (675) 9829083 Fax: (675) 9828712
Coffee Industry Corporation Ltd P.O. Box 137, Goroka, Papua New Guinea PHONE NUMBER (675) 732 2466	FPDA (Fresh Produce Development Authority) P O Box 958, Goroka 441 Eastern Highlands Province, PNG; Phone: (675) 532 3356; Fax: (675) 532 3357; Email: info@fpda.com.pg	Papua New Guinea National Agricultural Research Institute (NARI) P.O. Box 4415, Lae Morobe Province, PNG PAOFA, Janet NARI Southern Regional Centre, Laloki, P.O. Box 1828, Port Moresby

4. Communities and Women's Groups (in East New Britain and New Ireland)

East New Britain Women & Youth in Agriculture Cooperative Societies Association (or ENBWYIACSA). Mrs Kitani Sylvia Kurika (Executive Manager) N.A.R.I Island Regional Centre, North Coast Road, Keravat, ENBP	East New Britain Social Action Committee (ENBSEK) Linda Passingan 982 9279 enbsek@datec.com.pg	Matrak Cooperative Society Limited Sineina David Chairperson Vaulai Itinge Director (675) 7311 3861 Ruby Terarup, Manager
PNG Women Empowerment (PNGWE) Helen Mangula Founder (675) 7088 8002	Provincial Council of Women - East New Britain Province Alice Pawa, President (675) 982 5512	New Ireland Provincial Council of Women. Hedwig Yip, President Phone: (675) 7071 4596

5. Private Sector and Nonprofit within the focus areas of the project

NGIP Agmark, Head Office P O Box 1921 Rabaul, E.N.B.P, Papua New Guinea Phone: (675) 982 9055 Fax: (675) 982 9056 E-mail: enquiries@agmark.com.pg	(Forests for Certain, Forests for Life) FORCERT Head office, Section 30, Lot 75 Police Barracks Road PO Box 772, Kimbe, West New Britain, Province 621 Papua New Guinea https://forcertpng.org/our-organisation/	3A Composites PNG Ltd. Sec 72, Lot 9/10 Takubar, P.O. Box 1929, Kokopo 611, ENB PNG
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6. Church and other Ecumenical Organizations

<p>Caritas Papua New Guinea – Rabaul Catholic Archdiocese Fr. John Wagira – Diocesan Caritas Coordinator, Rabaul Catholic Archdiocese P O Box 357, Kokopo, ENBP Telephone: (675) 982 8344/69 Fax: (675) 982 8404 Mob: (675) 7357 6259 Email: fpanfilo@online.net.pg or wagirajohn@gmail.com</p>	<p>Seventh Day Adventist Church PO Box 41, Kavieng, New Ireland Province Ph: (675) 9403 748 Mobile: (675) 7224 2331</p>	<p>Christian Family Life Ph: (675) 982 8709</p> <p>Health Secretary Ph: (675) 982 8053</p> <p>Vunapope Hospital Ph: (675) 983 8355</p>
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6. Non-Governmental Organizations

<p>Business Enterprise Support Team Inc (BEST Inc) PO Box 726, Madang, Madang Province Tel: (675) 852 2040 Fax: (675) 852 1195</p>	<p>Anglicare Stop AIDS PNG PO Box 6491, Boroko National Capital District Tel: (675) 325 1855 Fax: (675) 325 1103</p>	<p>Business and Professional Women's Association (BPW) PO Box 276, Boroko National Capital District Tel: (675) 325 3166 Fax: (675) 325 4439 Email: kavianais@datec.net.pg</p>
<p>ChildFund Papua New Guinea PO Box 671, Gordons National Capital District Tel: (675) 323 2544 Fax: (675) 323 2562 Email: admin@childfund.org.pg</p>	<p>Global Green Growth Institute (GGGI) Contact: Dr. Achala Abeysinghe Country Representative Email: achala.abeyasinghe@gggi.org</p>	<p>PNG Biomass Michael Hanson, CEO For general enquiries: info@pngbiomass.com feedback@pngbiomass.com PNG Biomass PO Box 173, Lae, Morobe 411 Papua New Guinea</p>
<p>Conservation Resource Centre / UNDP PO Box 165, Waigani, National Capital District Tel: (675) 325 4900 Fax: (675) 325 9192 Email: crc@datec.com.pg</p>	<p>Country Women's Association (CWA) PO Box 154, Madang Madang Province Tel: (675) 852 2216 Fax: (675) 852 2506</p>	<p>East New Britain Council of Women PO Box 713, Rabaul, East New Britain Province Tel: (675) 982 8853</p>
<p>Habitat for Humanity PO Box 3804, Lae, Morobe Province Tel: (675) 472 0113 Fax: (675) 472 3513 E-mail: hfhpng@online.pg</p>	<p>Foundation for Rural Development (FORD) PO Box 719, Mt Hagen, Western Highlands Province Tel: 542 3524 Fax: 542 1815 E-mail: melpapro@online.net.pg ford@online.net.pg</p>	<p>Greenpeace PO Box 136 National Capital District Tel: (675) 326 0560 Fax: (675) 326 0560</p>
<p>Save the Children Fund P.O. Box 667, Goroka, Eastern Highlands Province Tel: (675) 532 1825; 532 1522 Fax: (675) 532 2737 E-mail: cpm@daltron.com.pg</p>	<p>World Wide Fund for Nature PO Box 8280, Boroko, National Capital District Tel: (675) 323-9855 Fax: (675) 323 9855</p>	<p>YWCA of Papua New Guinea (National Office) PO Box 5884, Boroko, National Capital District Tel: (675) 325 2181 Fax: (675) 325 6158 E-mail: ywcapng@datec.com.pg</p>
<p>UNDP Andrew Rylance</p>	<p>Sander Van den Ende svdende@sipef.com</p>	

7. Banks / Financial Institutions in PNG that provide assistance to Farmers

<p>Bank of Papua New Guinea Port Moresby T: (675) 322 7200 F: (675) 321 1617 P O Box 121 Port Moresby 111 National Capital District</p>	<p>National Development Bank Head Office Ph: (675) 3247500; Fax: (675) 325 9817 P.O. Box 686, Waigani, NCD rbanke@devbank.com.pg</p> <p>Kokopo Ph: (675) 982 8544/48 Fax: (675) 982 8542 P.O. Box 277, Kokopo, ENBP kokopo@devbank.com.pg</p>	<p>Kina Bank Peter Torot Street, Tabubar Kokopo, P.O. Box 419, Kokopo, East New Britain Province FAX: (675) 982 9001</p>
<p>East New Britain Savings and Loan Society 439 KOKOPO Papua New Guinea Phone: (675) 982 8950 Fax: (675) 982 805</p>		

8. List of Projects with similar focus area(s) in PNG

- Community Empowerment on Climate Change for Farming Communities in the Inland Baining Rural Area. UNDP GEF SGP with support from USAID
- Climate Ready Project. To be implemented by UNRE through Kairak IATP and UNRE SECC.
- Follow up phase of World Bank Productive in Partnership Project which will be call Papua New Guinea Agriculture Commercialization and Diversification Project. The project has been approved by the World Bank board and will focus also on small livestock and spices.
- Strengthening Food Production Capacity and the resilience to drought of vulnerable communities supported by the European Union in partnership with National Agriculture Research Institute.
- ACIAR Project: SSS/2018/137: Gender Equitable Agricultural Extension Through Institutions and Youth Engagement in Papua New Guinea. ENBWYIA and UNRE through KVRTC are currently involved in this research project.
- Reviving the Integrated Agriculture Training Program in Lihir 2017 to 2022. Currently underway with set up of demonstration farms/blocks. Focus is on reviving the Agriculture Industry in Lihir, New Ireland Province. Partnership between UNRE and Nimimar Local Level Government.



Annex D: Green Climate Fund Investment Criteria

Annex D: Summary of the proposed Project

Description

The proposed project will respond to the challenges through promoting climate-smart landscapes (CSL) by focusing on: (i) enhancing agricultural extension and farmer field schools; (ii) increasing research on climate smart landscapes; (iii) recognising and applying traditional ecological knowledge; (iv) increasing awareness of climate change and potential options; (v) increasing use of drought resistant agricultural and agroforestry systems; (vi) promoting soil conservation measures to accommodate increased rainfall; and, (vii) enhancing access to finance through small grants, (Figure 4). The project most importantly, will champion more productive and resilient agriculture based on sound management of natural resources, including land, water, soil, and biodiversity.

An integrated ecosystem-based management (EBM) approach will be used in combination with Participatory Action Research (PAR) and Collaborative Planning and Learning (CPL) to involve a wide range of different stakeholders and blend traditional ecological knowledge with science. Local knowledge is needed to help frame and prioritise the communities' challenges as well as to inform socio-culturally appropriate action, thus ensuring local ownership and longer-term sustainability of community responses.

The project will demonstrate value-added agroforestry and sustainable production systems and encourage and equitably empower women and girls to make informed decisions, drawing on the traditional wisdom and expertise. Findings from the landscape assessments and demo-farms will also have wider, generic, implications for Pacific Island nations adapting to a changing climate.

Components

The proposed project has three components with strategic focus as below.

Components	Strategic Focus
Component 1: Mapping potential landscapes, Science and Indigenous Knowledge	<p>Conduct research on science-based and local /traditional knowledge of ecotypes and their human uses in ENB and NIP landscapes, as well as their vulnerability to climate change.</p> <p>Ethically and respectfully engage local knowledge providers in parallel with government extension specialists to increase awareness and build adaptive capacity of farmers in the project area.</p> <p>Develop a comprehensive understanding of traditional ecological knowledge, coping strategies and adaptation practices at the farm and landscape levels for extreme weather events and climate change impacts in each vulnerable ecotype.</p>
Component 2: Development of Best Practice and	Identify and implement a network of CSL "demo-farms" (i.e., climate smart field schools) that combine drought resistant

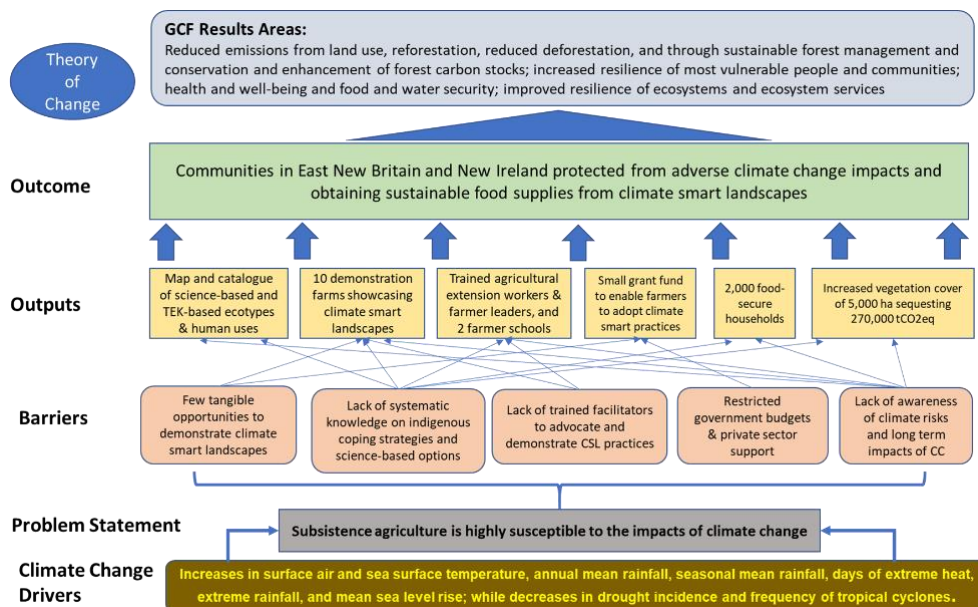
Demonstration Models for Climate Smart Landscape Management	agriculture (including non-timber and food systems) and mixed agroforestry systems, to improve livelihoods, management of natural resources and lower GHG emissions (<i>note possible link /learnings from Lestari Project in Indonesia by USAID</i>)
Component 3: Mobilization of Finance at Scale – Small Grant Funding for Adoption of Climate Smart Alternatives	Assist farmers in to access small grants to implement the climate smart agriculture practices proven and disseminated through farmer climate field schools and the demo-farms, to create climate smart landscapes throughout the two provinces, and to other similar locations in PNG

Fund-level Impacts and Outcomes, and Project Results: This outline how the project results align to the GCF impacts and outcomes framework.

GCF Key Result Areas (KRA)	
Fund-level Impacts, Outcomes and Indicators	Project-level Results
GCF KRA: Forestry and land use	
<p>Impacts Reduced emissions from land use, reforestation, reduced deforestation, and through sustainable forest management and conservation and enhancement of forest carbon stocks</p> <p>Outcomes Improved management of land or forest areas contributing to emissions reductions</p> <p>Indicator</p> <ul style="list-style-type: none"> • Tonnes of carbon dioxide equivalent (tCO₂ eq) reduced or avoided (including increased removals) - forest and land use • Hectares of land or forests under improved and effective management that contributes to CO₂ emission reductions 	<ul style="list-style-type: none"> • Increased vegetation coverage across the key landscapes in ENB and NIP, especially through expansion of agroforestry. The increased land cover of 5,000 ha is expected to sequester 270,000 tCO₂eq. • Farmers in the selected landscapes will be trained in improved land management and encouraged to adopt agroforestry systems that will increase tree cover and carbon sequestration across the landscape. • Establishment of (at least) 10 demo-farms on selected farms in two Provinces (ENB and NIP). • Demonstration farms results used to develop a CSL framework for adoption by the provincial governments as part of their land use planning efforts • Increased network of “demo-farms” that showcase locally adopted sustainable agroforestry systems • Conduct of Climate Smart Field Schools in ENB and NIP
GCF KRA: Most vulnerable people and communities	
<p>Impacts Increased resilience and enhanced livelihoods of the most vulnerable people, communities and regions</p>	<ul style="list-style-type: none"> • The project is expected to assist 1,500 beneficiaries directly, through investment in climate smart adaptation measures proven in the demo-farms, plus 5,000 indirect beneficiaries.

<p>Outcomes</p> <ul style="list-style-type: none"> Strengthened institutional and regulatory systems for climate-responsive planning and development Increased generation and use of climate information in decision-making <p>Indicator</p> <ul style="list-style-type: none"> Total Number of direct and indirect beneficiaries; Number of beneficiaries relative to total population Number of males and females benefiting from the adoption of diversified, climate resilient livelihood options (including fisheries, agriculture, tourism, etc.) 	<ul style="list-style-type: none"> Selection and engagement of, at minimum six local knowledge providers that will increase awareness and build adaptive capacity for farmers in ENB and NIP. The agricultural extension service in the two provinces will be strengthened through their involvement in the climate farm field schools. Farmers in selected landscapes will have received locally relevant and translated materials and learnt about climate change at the landscape level. Landscape-level criteria and indicators developed to guide adaptation choices Geo-spatial mapping of CSL's and creation of at least six "oral maps" Catalogue of science-based and traditional ecological knowledge (TEK)-based ecotypes and their human-uses in ENB and NIP Community-based vulnerability assessments to climate change to identify the most vulnerable communities Through the outreach and information dissemination activities, other parts of PNG and other Pacific islands will be able to adopt the demonstrated CSL approach
<p>GCF KRA: Health and well-being, and food and water security</p>	
<p>Impacts Increased resilience of health and well-being, and food and water security</p> <p>Outcomes Strengthened adaptive capacity and reduced exposure to climate risks</p> <p>Indicator Number of food secure households (in areas/periods at risk of climate change impacts)</p>	<ul style="list-style-type: none"> One of the main objectives is to improve food security in the time of extreme weather events. This has important impacts on health and well-being of the affected communities in ENB and NIP. Through awareness raising and the adoption of climate smart agriculture and agroforestry the selected communities will have improved adaptive capacities. The final numbers of food secure households targeted by the project will be determined during the PPF phase but are expected to be at least 2,000. Emphasis will be placed on empowering females who are the major influences on family health and well-being
<p>GCF KRA: Ecosystem and ecosystem services</p>	
<p>Impacts Improved resilience of ecosystems and ecosystem services</p>	<ul style="list-style-type: none"> Through the climate smart landscape approach, multiple ecosystems and

<p>Outcomes Strengthened awareness of climate threats and risk-reduction processes</p> <p>Indicator Coverage/scale of ecosystems protected and strengthened in response to climate variability and change</p>	<p>ecosystem services will be improved by the project.</p> <ul style="list-style-type: none"> • All stakeholders in the project areas will have increased awareness of climate risks and the appropriate responses available, at the farm level and across the landscape. • The ecosystems in each landscape type targeted by the project will see improved responses to climate variability and change. • Production and dissemination of at least 10 production manuals related to the 10 demo-farms • Development of guidance manual(s) for policymakers and practitioners.
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Draft Theory of Change

The project **rationale** is that subsistence agriculture in ENB and NIP is increasingly vulnerable to the impacts of climate change, which acts like a slow onset disaster. Farmers and resource managers in the area recognize that change is taking place, but they don't always make the link to climate change, as in their perception the weather always changes. Because they are not aware of climate change as the driving force, they also have insufficient knowledge of the climate smart alternatives that would begin to address these changes.



The project responses with **key outputs**, include: (i) a clear understanding and map of indigenous knowledge and climate change strategies in the event of extreme weather events; (ii) at least 10 demonstration farms showcasing the essential elements of climate smart landscapes; (iii) at least 100 trained extension workers or farmer leaders who are capable of continuing to disseminate the practices and advantages of climate smart landscapes beyond the life of the project; and (iv) establishment of a small grants window to provide grant funding to farmers willing to adopt some of the climate smart practices demonstrated by the project. The combination of indigenous and western knowledge, farmer-led demonstration, trained facilitators, and farmer access to grant financing will enable multiple landscapes in ENB and NIP to become climate smart, an achievement that can be replicated throughout similar situations in PNG and in other Pacific island countries.