

SVG Coastal and Marine Ecosystems Management Strengthening Project

Terms of Reference

Environmental Consultant

SVGCMEMS-C-IC-18

1. Background

The SVG Coastal and Marine Ecosystems Management Strengthening Project seeks to address the challenges for coastal and marine management in St. Vincent and the Grenadines, including anthropogenic pressures, institutional fragmentation, policy and regulatory inadequacies, and lack of adaptive capacity through data-driven solutions. The Project will be funded by a GEF Trust Fund grant in the amount of US\$3.65 million and will contribute to the GEF-7 biodiversity focal area—to maintain globally significant biodiversity in landscapes and seascapes—through improved management and protection of the country’s coastal and marine biodiversity. The Project will be implemented in accordance with the World Bank’s Environmental and Social Framework (ESF).

The project includes three key interacting components implemented in parallel:

Component 1 supports institutional strengthening for coastal and marine management across all relevant sectors and will address challenges of institutional fragmentation and policy and regulatory inadequacies primarily through support to better operationalize the National Ocean Coordination Committee (NOCC) and achieve actions under the National Oceans Policy and Strategic Action Plan (NOPSAP). These activities will indirectly affect anthropogenic pressures through more robust and consistent enforcement of policies and monitoring to ensure the sustainable use of coastal and marine resources.

Component 2 will support pilots to demonstrate spatial planning and innovative financing arrangements, environmental mitigation and management, participatory conservation and protection, improved livelihoods, nature-based tourism, and alternative natural resource use. The identified pilot sites include (a) St. Vincent Southeast Landscape/Seascape: Brighton; (b) Grenadines Landscape/Seascape: Union Island and Tobago Cays Marine Park (TCMP); (c) Leeward Coast: Richmond Beach, Chateaubelair Bay; and (d) Colonaire Beach. These pilot sites will be used to test approaches for mitigating anthropogenic pressures on coastal and marine resources, and the lessons learned will inform adaptive capacity through policy measures in Component 1 and data management in Component 3. At each pilot site, the following will be undertaken: (i) technical assessments to identify the current knowledge, capacity, and implementation gaps and good practices for integrated coastal and marine spatial planning appropriate to the unique characteristics of the sites; (ii) capacity building and training including of public-private-community partnerships for promotion of new models for participatory management of inshore areas, sustainable fisheries, and nature-based tourism benefit sharing; and (iii) implement a number of interventions to test approaches to integrated coastal and marine spatial planning with a focus on improving local livelihood opportunities for nature-based tourism and biodiversity conservation.

The interventions/activities that will be implemented through on-the-ground investments at each pilot site are listed in the Annex to this TOR. The activities promote approaches to strengthen the role and participation of women in the relevant coastal and marine productivity sectors. A firm is in the process of being hired to undertake technical assessments and planning of each site to inform the nature and extent of the interventions, although regional or local Non-Governmental Organizations (NGO) will be engaged concurrently to implement pre-selected activities to ensure quick delivery of priority interventions.

Component 3 will support the development of a permanent and publicly accessible knowledge and data repository within a new National Environmental Data and Information Platform (NEDIP), beginning with existing coastal and marine data. Relevant and available biophysical and planning information will be maintained there, as well as information on pilot activities. This component will address the challenges of adaptive capacity by enhancing data, analysis, and monitoring of coastal and marine resources to inform data-driven approaches. The NEDIP will help provide data to guide decision-making and reduce some uncertainties and institutional conflict. It will also serve as a primary mechanism for ensuring accountability for results by facilitating effective monitoring and evaluation of the project and sharing of timely, relevant, and unambiguous information about the Project's monitoring & evaluation findings with the project's beneficiaries and stakeholders.

In addition to the above 3 key components, component 4 'Project Coordination and Management' will support the direct equipment, and operational and incremental staff costs for project coordination and management. The Sustainable Development Unit (SDU) under the Ministry of Tourism, Civil Aviation, Sustainable Development & Culture will be responsible for implementing the project.

2. Objective

The Environmental Consultant is responsible for coordinating and managing the overall environmental aspects of each pilot site under Component 2 of the project, and for providing advice about the lessons learned relevant for delivering Components 1 & 3.

The Environmental Consultant will ensure that the Project (and especially the interventions/activities at the pilot sites) complies with the Project's environmental and social standards and commitments, which include national environmental requirements and the WB ESF, including the following Environmental and Social Standards (ESSs):

- Environmental and Social Standard 1: Assessment and Management of Environmental and Social Risks and Impacts: The main instruments are the Environmental and Social Commitment Plan (ESCP) Environmental and Social Management Framework (ESMF), Environmental and Social Management Plans (ESMPs).
- Environmental and Social Standard 2: Labor and Working Conditions. Elements of Occupational Health and Safety (OSH) will fall under this ESS, for which measures will

be described in the ESMF and ESMPs.

- Environmental and Social Standard 3: Resource Efficiency and Pollution Prevention and Management. Measures are part of the ESMF and ESMPs.
- Environmental and Social Standard 4: Community Health and Safety. Most of the measures under this ESS will be part of the Environmental and Social Management Framework (ESMF) and Environmental and Social Management Plans (ESMPs).
- Environmental and Social Standard 6: Biodiversity Conservation and Sustainable Management of Living Natural Resources. Measures are part of the ESMF and ESMPs.
- Environmental and Social Standard 8: Cultural Heritage. Measures to address these potential impacts will be defined in the ESMF and ESMPs. The Environmental Consultant will play the lead role in managing the application of the following Environmental and Social Standard (ESS).
- Environmental and Social Standard 10: Stakeholder Engagement and Information Disclosure. The main instrument is the Stakeholder Engagement Plan (SEP).
- Processes and measures for achieving compliance with the ESSs are described in the Project's ESMF, SEP, LMP, RPF and ESCP, and the Environmental Consultant will be jointly responsible with the Social/Participatory Consultant for implementing the project in accordance with these documents.

3. Duties and Responsibilities:

The Environmental Consultant will be responsible for ensuring that the environmental requirements are met during the implementation of the Project, and especially that any adverse impacts are efficiently identified and effectively avoided and/or mitigated in a timely manner for Component 2.

Duties/responsibilities of the Environmental Consultant include, but are not limited to:

General

- Coordinate the implementation, monitoring and reporting of E&S compliance with the Social/Participatory Consultant.
- Ensure implementation of the Environmental and Social Commitment Plan (ESCP) of St. Vincent and the Grenadines and the E&S instruments ESMF, SEP, LMP, RPF, including the Grievance Redress Mechanism (GRM) as described in the SEP, and the one dedicated to Project workers as described in the LMP (in coordination with the Social/Participatory Consultant). In coordination with the Social/Participatory Consultant, monitor the

implementation of the ESCP, ESMF, SEP and LMP, (including any subsequent documentation they require, such as ESMPs) during the assessment, planning and implementation of Component 2 interventions.

- Review periodically and update as necessary the E&S instruments (including the ESMF) to ensure they remain pertinent and appropriate to guide the Project's compliance with environmental standards and commitments.
- Review and ensure that relevant environmental requirements are duly incorporated into the procurement documents to meet the Project's environmental standards and commitments during works. Ensure that Bidders and appointed contractors are aware of the environmental requirements.
- Undertake site inspections, audits, and other supervisory activities as necessary to ensure that the consultants and contractors comply with the environmental requirements/ESHS specifications of their respective contracts while carrying out the works, and provide regular reports (with recommendations as necessary for improving works compliance) to the supervising agent and/or Project Director/Coordinator.
- Provide contributions to the regular semi-annual and annual progress reports on the Projects' implementation as required by the Government and the World Bank.
- Perform other duties in line with the scope of the project leading to compliance with environmental and social aspects and related instruments, including with respect to Components 1 and 3 of the Project.

Site specific actions for pilot sites:

- Obtain and collate existing environmental data for each pilot site, and undertake field surveys to map and record current features of environmental interest. Analyze the information and prepare a baseline description of the water quality, biodiversity (including habitat mapping), sources of potential pollution, harm or otherwise damaging activities/land uses.
- Identify any missing or deficient baseline information needed to inform the design and implementation of interventions, and for the basis of future monitoring of the improvements/impacts that the interventions will bring and design a monitoring program that would obtain this data, and identify appropriate mechanisms for how this can be efficiently and sustainably put in place.
- For each site-specific subprojects/interventions/activities, carry out screening applying the exclusion list to the potential sub-projects in line with the procedures in the ESMF.
- Determine the scope of environmental work needed for the activity to proceed in accordance with the Project's environmental commitments (i.e., identify the magnitude, sensitivity and risk category of the works, and based on this the controls that are needed).
- Lead the preparation, consultation, adoption, disclosure of site-specific environmental and social impact assessments (ESIAs) and Environmental and Social Management Plans (ESMPs) in coordination with other PIU staff and relevant stakeholders.
- Ensure that the necessary environmental consents, authorizations and permits required by the National environmental regulatory requirements are obtained and complied with during the implementation of interventions at the pilot sites.

Responsibilities related to LMP

In coordination with the Social/Participatory Consultant and the Gender Officer:

- Support the implementation of the labor management procedures set forth in the LMP.
- Ensure that all project workers, including those of the PIU, sign a Code of Conduct as part of their contracts, including provisions on sexual exploitation and abuse, sexual harassment and violence against children.
- Support the implementation, monitoring and reporting of the GRM of the LMP.

Stakeholder Engagement

In coordination with the Social/Participatory Consultant and the Gender Officer:

- Ensure the implementation of the stakeholder process set forth in the Stakeholder Engagement Plan (SEP).
- Share Project information and support consultations with the relevant Project affected parties and other interested parties to ensure that issues are addressed in a timely manner and that project beneficiaries are kept abreast of developments, in line with the stakeholder engagement process identified in the SEP.
- Ensure that stakeholders' feedback is integrated into ESMPs and other site-specific documents, as needed.
- Support the implementation, monitoring and reporting of the GRM of the SEP.

4. Outputs/deliverables

1. Monthly reports: table that briefly describes the works undertaken by the consultant to discharge the duties during the month, together with a forward look as to the works to be undertaken in the coming month. Key environmental issues or aspects including those that may present a risk to achieving compliance with environmental commitments or delivering the works to program should be flagged, together with the recommendations for managing the risks.
2. Input to biannual reports that consolidate the E&S performance of the Project and as inputs to the project's biannual report. The environmental inputs for the biannual report will include but not limited to, the implementation of the ESCP, ESMF, SEP, LMP, and the ESMPs to be developed under Component 2 of the project, as well as stakeholder engagement activities.
3. Environmental Impact Monitoring and Evaluation Plan, including indicators and institutional arrangements, for monitoring the environmental impacts/outcomes of the project.
4. Environmental and Social Management Plans (ESMPs) for the relevant project activities.
5. Outreach and stakeholder engagement plan on the specific ESMPs.

5. Duration of Services:

The consultancy will be parttime which will require the consultant to work within the pilot sites. The contract duration would be two (2) years, then renewable based on performance. The consultant is expected to work at a maximum of ten (10) work days per month.

6. Qualification and Experience:

- At least a Bachelor's Degree in Environmental Science, Environmental Engineering, Environmental Studies, Environmental Management, Natural Resources Management, or any other related discipline.
- At least two (2) year of experience of integrating environmental issues and considerations into the design and implementation of projects, preferably in a Caribbean context.
- Familiarity with SVG Laws, regulations and institutional arrangement for EHS
- Experience in working with different stakeholders to lead discussions on environmental matters.
- Ability to work in teams and communicate effectively; and demonstrated resourcefulness and initiative
- Fluency in English with excellent oral and writing communication skills as well as report writing.
- Experience working with multilateral or bilateral donors (e.g. World Bank, Caribbean Development Bank, European Union etc.) and knowledge the World Bank's Environmental and Social Framework would be considered an advantage.

7. Reporting Requirements

The Environmental Consultant will work under the overall management of the Director of the Sustainable Development Unit and will report directly to the Project Coordinator. The Environmental Consultant is expected to work collaboratively and closely with all other team members, including the Social/Participatory Consultant, the Environmental and Social Specialist/s in the PSIPMU, as well as with other stakeholders.

8. Applications

Applications should be submitted in English Language with CV, including nationality, date of birth, work experience, educational qualifications, summary of professional skills and/or expertise they will bring to the role, language proficiency, list of professional publications, contact information (including email addresses) of three references, and other relevant information, should be addressed to: Mr. Ricardo Frederick, Director of Economic Planning, Administrative Building, St. Vincent and the Grenadines VC0100 email: cenplan@gmail.com.

Details: Applications must be submitted by:

Annex: Matrix of proposed interventions at the four project sites

| ACTIVITY | LEADING AGENCY | PARTNERS | ACTIONS |
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| Turtle Protection and Combat illegal turtle egg poaching | Fishery Division (FD) | a. Conservation fund (based in Kingstown) b. Union Island Environmental Alliance c. National Parks | 1. Provide items to be procured 2. Update monitoring template 3. Digitalize tracking system (from excel to online/app based) 4. Outreach/training with police station and management agencies 5. TOR for two NGOs 6. TOR for training expert 7. Digital tagging of turtles (identify partners to work with and develop TOR for it) |
| Destruction of critical habitat for birds, fish, and other marine organisms | Fishery Division (FD) | a. National Parks b. Fishery Division | 1. Support the consultation of zoning led by FD with other partners. 2. Procurement: signages, brochure, 3. Training plan (including transportation, accommodation, and consultation) |
| Sea Moss farming | Fishery Division (FD) | | 1. TOR for consulting services to assist with product development and diversification, including value addition and conduct training and capacity development to improve shelf life of sea moss byproducts 2. Procure a mill to pulverize sea moss for Mayreau Explorers |
| Reduce gravel mining through alternative livelihood initiatives | Fishery Division (FD) | a. SDU | 1. Ecotourism development plan (bird watching, camping, kayaking, tree planting) 2. Procurement list submitted (equipment for processing sea moss and tri tri fishing). |
| Overfishing | Fishery Division (FD) | a. SDU | 1. Propose tangible plan to replace FAD activity 2. TOR for lab test capacity improving (consultant support and procurement) 3. Sustainable fishing training plan |
| Illegal sand mining | Economic Planning (EP) | a. SDU b. Forestry | 1. Finish the design of the project in Richmond 2. Coordination meeting |

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| Shoreline vegetation loss | Forestry Division (FoD) | a. National Parks | <ol style="list-style-type: none"> 1. determine what kind of species to be procured for replantation. 2. Direct Contract NGOs to implement. 3. Drone mapping TOR for vegetation coverage |
| Agriculture runoff | Agriculture Division (AD) | <ol style="list-style-type: none"> a. National Parks b. Fishery Division | <ol style="list-style-type: none"> 1. Submit their proposal with budget to help with demonstration farms with biopesticide and biofertilizer to promote low-chemical farming. |
| Solid waste disposal | Solid Waste Authority | <ol style="list-style-type: none"> a. National Parks b. Fishery Division c. Bureau of Standard | <ol style="list-style-type: none"> 1. FD develop plans to test water with collaboration of Bureau of Standard 2. Solid Waste authority to help with solid waste management plan and procure list (trash bin, signage, etc) 3. Assessment to recommend a sustainable waste management solution for the Island of Mayreau 4. Develop a framework, protocol, sustainable system for solid waste from Yachts. 5. Improve telecommunication system (two-way radio) If needed, submit specification |
| Zoning maps /plans to reduce user conflicts | SDU | <ol style="list-style-type: none"> a. National Parks b. Fishery Division c. Forest Division | <ol style="list-style-type: none"> 1. TOR for geospatial mapping (can be built on TNC MSP) 2. Implement the SVG Tourism Development plan 3. Prepare a TOR for NGO to help with sand mining reduction |
| Communication Campaigns | SDU | <ol style="list-style-type: none"> a. National Parks b. Fishery Division | <ol style="list-style-type: none"> 1. Communication plan approved Organize geckos protection social media materials development 2. Organize photo contest, art contest, festival, school materials, social media coverage. 3. Janeel will follow up with TNC on the biodiversity mapping 4. Communication campaign plans on marine pollution reduction 5. Communication campaigns plans and signage to reduce sand mining |

More detailed description by pilot site

Pilot Site 1: St. Vincent Southeast Landscape/Seascape: Milligan Cay and Brighton, Diamond, and Stubbs Beaches

| A | B | C | | | D | E | F |
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| Key Threats | Proposed Project Interventions | Agency's Priorities | | | Gaps | Short/medium term activities identified | Prioritization (with Rank 1 to be undertaken immediately through sector agencies) |
| | | Forestry | Fisheries | National Parks | | | |
| <p>Illegal poaching of turtle eggs and turtles reported as well as illegal sand mining putting extra pressure on turtle habitat as a major threat in all three (, Brighton, and) beaches.</p> | <p>Biodiversity monitoring and awareness program: (a) Implement a scientifically designed participatory biodiversity monitoring of the beaches and (b) develop a turtle conservation, monitoring, and awareness program involving the schools and community groups.</p> <p>Alternative livelihood support. Strengthen small local enterprises and create alternative livelihoods opportunities for locals in the community (small-scale agriculture, fishing, and small enterprises based on block</p> | <p>Improve and implement a policy, legal and institutional framework for the management and conservation of the forest ecosystems, especially protected species and areas.</p> <p>Improvement to the monitoring of population numbers for endemic species and</p> | <p>To improve management of four (4) protected species in Saint Vincent and the Grenadines and further inform policy decisions.</p> <ul style="list-style-type: none"> - Cetaceans - Sea Turtle - Coral - Sea Urchins <p>To build capacity of four hundred (400) persons involved in the fishing industry through workshops, meetings, training courses and general technical</p> | | <ul style="list-style-type: none"> -Lack of awareness on value for turtle conservation -Lack of capacity and equipment for turtle monitoring -Lack of standardized methods and templates for turtle monitoring -Lack of citizens support for information gathering and reporting of illicit activities <p>Limited opportunities for local communities to</p> | <p>Build composite program for turtle conservation including: -</p> <ul style="list-style-type: none"> (i) community capacity and engagement for conservation turtle monitoring (community monitors) (ii) Training in turtle monitoring and turtle biology (iii) develop standardized monitoring/record keeping templates and training community monitors in use of these (iv) improve awareness on turtle (v) Providing equipment for turtle monitoring hand counters, note pads, etc.). (vi) citizen science program for improving enforcement and vigilance | <p>Priority rank 1</p> <ul style="list-style-type: none"> i) Conservation Fund (based in Kingstown) is an NGO working closely with the National Parks and Fishery Division. (ii) Union Island Environmental Alliance can be one partner too. <p>Fishery division will lead this and streamline the activities and will provide a list of items to be procured.</p> |

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| | making, gastronomical, and other services). | their habitats. Increase the contribution of Forest and Forest resources to livelihoods specifically in rural communities . | guidance from fisheries officials. | | enhance livelihood opportunities to reduce illegal activities | (iii) Build NGOs/CSOs capacity in the following areas: -Project management -Financial Management including procurement -Project proposal writing Focusing on eco-tourism or environmentally sustainable businesses. | Monitoring template has been updated. It has been used by different partners. Fishery division uses a spreadsheet to track activities. FD distributes brochures, outreach to police station. FD will do more training with police station and management agencies (FD, parks). Training will need a consultant to help. TOR, target audience, budget, equipment, etc. NGO provide community monitoring, community awareness. FD focuses on standardized template, etc. |
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| | | | | | | | <p>Three options for procurement: either direct contract to these two NGOs, or competitive selection, or only support operation cost. Collaboration partnership agreement can be signed.</p> <p><u>ACTION:</u> TOR will be developed by FD by early April, 2024.</p> <p>FD will discuss and propose activities in connection with activity 1.</p> <p>The target number of people will be revised as it is not realistic.</p> <p>Sustainable Grenadines is an NGO to potentially be Direct Contracted.</p> |
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| | | | | | | | <p>ACTION: TOR (for Alternative livelihood support aspect) will be done by SDU by the end of march, 2024.</p> <p>Improved telecommunication system (two-way radio)</p> |
| Overextraction and illegal sand mining resulting in removal of the beach vegetation causing beach recession and erosion destroying the beach habitat at and Brighton beach. | Zoning/mapping/planning . Develop a landscape/seascape management plan including mapping and zoning for control of mining, solid waste disposal, and protection of turtle nesting sites. | Improvement of forest management plans for improved watershed management to sustain water production and protect natural resources. | To collect biophysical data along beaches and coastlines & river assessment. Water quality testing, beach profiling, habitat mapping with the aid of drones) | | -Lack of zoning of coastal areas for various activities to help reduce conflict -limited signage and information availability (iii) Lack of citizens support for information gathering and reporting of illicit activities | | <p>Priority Rank 1</p> <p>PSIPMU has a project in Diamond site. They plan to do fencing, footpath, washroom, gazebos, seating area, parking area, and walking area, which will prevent/reduce sand mining. Tourism has in-house capacity to do the vegetation and the firm to be recruited can help further.</p> <p>ACTION: PSIPMU will finish the design by the</p> |

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| | | | | | | | end of Mar and beginning of April PSIPMU will organize a meeting to decide who will do what. |
| Illegal sand mining putting extra pressure on turtle habitat | Alternative livelihood support. Strengthen small local enterprises and create alternative livelihoods opportunities for locals in the community (small-scale agriculture, fishing, and small enterprises based on block making, gastronomical, and other services). | Increase the contribution of Forest and Forest resources to livelihoods specifically in rural communities . | To build capacity of four hundred (400) persons involved in the fishing industry through workshops, meetings, training courses and general technical guidance from fisheries officials. | | Limited opportunities for local communities to enhance livelihood opportunities to reduce illegal activities | Livelihood assessment to identify and support livelihood activities associated with turtle watching | <p>Priority rank 2 Some of them will be covered by the 1st one. Others can be more tailored.</p> <p>FD will discuss and propose activities in connection with activity 1.</p> <p>The target number of people will be revised as it is not realistic.</p> <p>Sustainable Grenadines is an NGO to potentially be Direct Contracted.</p> <p>ACTION: TOR will be done by SDU by the end of march, 2024.</p> |

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| Shoreline and vegetation loss. | Eco-engineering for shoreline protection. Assess the feasibility of stabilization and mangrove and shore vegetation restoration (co-financing for investments) | Protection of the national forest for sustaining ecosystem services | | | -Grazing and erosion destroying coastal vegetation causing loss of habitat and ecological functions | -Protection and restoration of mangrove and coastal vegetation. | Priority rank 2 Forestry will help determine what kind of species to be procured. Direct Contract NGOs to lead. Seeding can be procured. |
| Inadequate solid waste disposal. | Reducing marine pollution. Assess the sources of pollution at the Brighton and Diamond beaches and develop a solid waste management plan to protect marine resources (investment in pollution reduction to be undertaken with co-financing). | Improvement to the monitoring of population numbers for endemic species and their habitats. | Development and production of fifty (50) fisheries related public awareness initiatives/material highlighting critical issues impacting the fishing industry. | | -Lack of suitable measures for waste management -Limited awareness and community support -Open access dumping of waste | Management of wastes (solid, liquid) through: (i) Technical support for developing strategy/plan for sustainable waste management (including identification of best and practical options); (ii) Signage to improve waste management (iii) provision of garbage bins. | Priority rank 2 National parks /FD will do some test of the water. Southern Grenadines has the issue of solid waste from yachts and Brighton has the issue of the leaching for the landfill. Involve solid waste authority to help with this activity. |

Pilot Site 2: Grenadines Landscape: Union Island and Tobago Cays Marine Park/Mayreau

| A | B | C | D | E | F |
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| Key Threats | | Agency's Priorities | Gaps | | |

| | Proposed Interventions | Forestry | Fisheries | National Parks | | Short/medium term activities identified | Prioritization (with Rank 1 to be undertaken immediately through sector agencies) |
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| Destruction of critical habitat for birds, fish, and other marine organisms and opportunities for nature-based tourism and improved livelihoods | Zoning/mapping/planning: (a) Mapping and landscape/seascape planning and zoning for conservation, nature-based tourism, salt mining, fishing, and so on and (b) sustainable master plan for Ashton lagoon to address engineering aspects, mangrove and coral rehabilitation, fishing, nature-based tourism, and navigation sites. | Improve and implement a policy, legal and institutional framework for the management and conservation of the forest ecosystems, especially protected species and areas. Improvement to the monitoring of population numbers for endemic species and their habitats. | To improve management of four (4) protected species in Saint Vincent and the Grenadines and further inform policy decisions. - Cetaceans - Sea Turtle - Coral - Sea Urchins | | -Limited awareness of conservation needs -Inadequacy of communication measures To collect biophysical data along beaches and coastlines & river assessment. Water quality testing, beach profiling, habitat mapping with the aid of drones) | Improved communication and awareness through: (i) Design and printing of brochure/zoning maps (TCMP already done zoning maps) (ii) improved signage (zoning map, 6 signs with information of the different islands within the TCMP) | Priority rank 1 (include Assistance with redesign of the TCMP website) Support the consultation of zoning led by FD with other partners. Procurement: signages, brochure, Accommodation and transportation to be submitted by Mar 25, 2024. TBD on the mapping/survey Communications proposed to launch a competition for the design of printed communication material (t-shirt designs, logos etc. |

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| | | | | | | | NB. Details to be fleshed out) |
| Illegal trade in wildlife, particularly the geckos and other endemics. | Biodiversity monitoring and awareness program. Biodiversity monitoring, including geckos | Improvement of forest management plans for improved watershed management to sustain water production and protect natural resources. Improvement to the monitoring of population numbers for endemic species and their habitats. | To collect biophysical data along beaches and coastlines & river assessment. Water quality testing, beach profiling, habitat mapping with the aid of drones) | Increase stakeholder awareness and in engagement to foster advocacy and stewardship for the conservation of biodiversity, parks and protected areas. | -Limited recognition of the value and uniqueness of SVGs biodiversity -Limited awareness and communication -Limited engagement of communities in fostering stewardship | -Establish monitoring program to monitor status of key species -Improved awareness program for key stakeholders, including TCMP visitors -Active engagement of boat crews, tourism service providers and other key stakeholders in conservation stewards | Priority rank 2 Gecko illegal trade has been addressed in GEF 6. Surveillance has been improved. It should be taken out. Further education/awareness can be done mascot, animation, gecko fest? to further sensitize/educate boat crew/locals, service providers etc. GEF could support communication campaign, organize geckos protection social media materials development. Janeel will follow up with TNC on |

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| | | | | | | | the biodiversity mapping. |
| Potential impacts from uncontrolled and unmanaged tourism | <p>Nature-based tourism. Nature-based tourism promotion based on environmentally friendly guidelines for hotels, boating, recreational activities, mooring, and so on</p> <p>Alternative livelihood support. Mainly focusing on sea moss cultivation. Others that could be considered are aquaponics and sustainable ecological home gardens—vegetable gardens and so on</p> | Increase the contribution of ForestS and Forest resources to livelihoods specifically in rural communities. | To build capacity of four hundred (400) (number to be revised) persons involved in the fishing industry through workshops, meetings, training courses and general technical guidance from fisheries officials. | Facilitate and Promote public-private partnerships to increase revenue that can be utilized for effective management including social and economic benefits. | <p>Limited market opportunities.</p> <p>Limited value-added opportunities</p> <p>Capacity building for NGOs</p> <p>Create other livelihood synergies</p> <p>Lack of proper management system on Mayreau</p> <p>Water insecurity on Mayreau</p> | . (ix) Conduct an assessment to recommend a sustainable waste management solution for the Island of Mayreau | <p>Priority rank 2</p> <p>TOR for this</p> |

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| Sewage pollution from yachts and other wastes. | Reducing marine pollution | Protection of the national forest for sustaining ecosystem services | Development and production of fifty (50) fisheries related public awareness initiatives/material highlighting critical issues impacting the fishing industry. | | Limited patrol and enforcement in park including communication systems. | Develop system for control of solid waste from Yachts. Develop a framework and protocol for managing and enforcement for grey water and effluent on yachts visiting the TCMP. | Priority rank 1 (include Consultancy to develop a management plan for effluent in the Marine Park, SWMU to assist.) TOR for TA? Solid Waste |

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| | | | | | | <p>Consultancy to identify and develop a sustainable solid waste management for yachts.</p> <p>Patrol boat for improved enforcement with financing through World Bank investment project or co-financing</p> <p>Improve telecommunication system (two-way radio)</p> | <p>Proposal for boat is tentative. Dependent on approval of financing under WB investment project.</p> <p>Improve telecommunication (Two-way communication)</p> |
| | <p>Eco-engineering for shoreline protection: (a) Complete breakwater revetment at Ashton lagoon (with co-financing); (b) swale and mangrove peninsula construction to improve mangrove flushing (co-financing); and (c) water circulation gaps opened in marine pier structure to improve circulation in lagoon (potential co-financing)</p> | | | | <p>Already competed through finance for other sources.</p> | | |

Pilot Site 3: Leeward Coast: Richmond Beach, Chateaubelair Bay, Petit Bordel Bay, and Troumaca Bay

| A | B | C | | | D | E | F |
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| Key Threats | Proposed Interventions | Agency's Priorities | | | Gaps | Short/medium term activities identified | Prioritization (with Rank 1 to be undertaken immediately through sector agencies) |
| | | Forestry | Fisheries | National Parks | | | |
| Agriculture runoff, erosion, and some pollution along the coastal area affect reefs. | Eco-engineering for shoreline protection. Coral and mangrove and coastal vegetation restoration (potential co-financing), promoting low-chemical farming | Improve and implement a policy, legal and institutional framework for the management and conservation of the forest ecosystems, especially protected species and areas. | To improve management of four (4) protected species in Saint Vincent and the Grenadines and further inform policy decisions. - Cetaceans - Sea Turtle - Coral - Sea Urchins To collect biophysical data along beaches and coastlines & river assessment. Water quality testing, beach profiling, habitat mapping with the aid of drones) | | Vegetation gaps along the coastline, some destroyed by recent volcano eruption | Protection and restoration of West Indian Almond and costal vegetation. Develop awareness programs around marine pollution. Establishment of a demonstration farm(s) | Priority rank 2 Agriculture will submit their proposal with budget by Mar 8, 2024 to help with biopesticide and biofertilizer. Garbage collection bins and signage to be provided at site. |
| Garbage disposal is contributing to marine pollution along | Reducing marine pollution. Promoting low-chemical farming | Improvement of forest management plans for improved | To collect biophysical data along beaches and coastlines & river assessment. | | -Lack of awareness and commitments | To be managed under the ecotourism plan/initiative (see below). | See below |

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| the bay due to indiscriminate disposal of solid waste. | | watershed management to sustain water production and protect natural resources. | Water quality testing, beach profiling, habitat mapping with the aid of drones) | | to waste management. | | |
| Pig farms along the river inadequately dispose of their wastewater into the river which empties into the bay. | Reducing marine pollution. Promoting low-chemical farming | Protection of the national forest for sustaining ecosystem services | To collect biophysical data along beaches and coastlines & river assessment. Water quality testing, beach profiling, habitat mapping with the aid of drones) | | -Lack of awareness, capacity and enforcement for management of pig farm waste | Develop awareness programs around marine pollution. Train farmers in SMART agriculture | Priority rank 2 |
| Reduce gravel mining through alternative livelihood initiatives | Alternative livelihood support: (a) Development of agro-processing facilities and (b) livelihood opportunities, including sea moss farming, SMART agriculture ⁴³ , fish storage, processing, and packaging | Increase the contribution of Forest and Forest resources to livelihoods specifically in rural communities. | To build capacity of four hundred (400) persons involved in the fishing industry through workshops, meetings, training courses and general technical guidance from fisheries officials. | Facilitate and Promote public-private partnership ventures to increase revenue that can be utilized for effective management including social and economic benefits. | - Lack of management of gravel mining | Seamoss farming Eco-tourism initiatives (bird watching, camping, kyaking, tree planting) | Priority rank 2 FD will lead Sea moss farming. Ecotourism (bird watching, camping, kayaking, tree planting) Procurement: equipment for processing. |

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| | | | | | | <p>Activity: Fisheries Lab accreditation proposal can be considered here</p> <p>Fisheries will submit another proposal to replace the FADs etc. As these activities are covered under the UBEC project.</p> | <p>Priority rank 1 FD will prepare proposals.</p> <p>Water monitoring lab (equipment and capacity building) to get credited.</p> <p>Since FAD will be taken out, FD will think through what other activities to be supported, such as FMP implementation</p> |
| <p>Tourist boom can cause environmental impacts if not properly planned and managed.</p> | <p>Zoning/mapping/planning: (a) Mapping and landscape/seascape planning and zoning of Richmond beach for conservation, location of nature-based tourism activities, mining, diving, snorkeling, and so on and</p> | <p>Improve and implement a policy, legal and institutional framework for the management and conservation of the forest ecosystems, especially protected species and areas.</p> | | <p>Declaration and effective management of other protected areas such as Ashton Lagoon-Palm Island, Leeward Coast and Petite St. Vincent.</p> | <p>-No strategy or plan to promote tourism -Lack of knowledge and capacity for promotion of ecotourism -Lack of diversified opportunities for tourism</p> | <p>-Consultancy to develop a ecotourism plan to determine range of activities for the area. -Develop zoning maps /plans to reduce user conflicts, in particular with gravel and sand mining -Mobilization and training of communities for</p> | <p>Priority rank 1</p> <p>Garbage collection bins and signage to be provided at site.</p> <p>Priority 2, can benefit from feasibility study under UBEC as well as training</p> |

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| | | | | | | sustainable tourism activities: -Camping -Picnicking -Hiking -Kayaking -Trekking -Volcano visitation -local culture promotion, etc. - Tri Tri watching (tourists can learn the art) - bird watching -Ensure that tourism integrates marine, coastal and terrestrial opportunities that engage diverse community groups | |
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Pilot Site 4: Colonarie Beach

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| Key Threats | Proposed Interventions | Agency's Priorities | | | Gaps | Short/medium term activities identified | Prioritization (with Rank 1 to be undertaken immediately through sector agencies) |
| | | Forestry | Fisheries | National Parks | | | |

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| Unregulated sand mining | Zoning/mapping/planning: (a) Mapping and landscape/seascape planning and zoning for conservation, mining, recreation, and so on and (b) declaration of turtle sanctuary | Improve and implement a policy, legal and institutional framework for the management and conservation of the forest ecosystems, especially protected species and areas. Improvement to the monitoring of population numbers for endemic species and their habitats. | | Improve interpretation and signage at parks and websites and social media platform. protected areas. | -Lack of zoning -Limited community engagement | Develop zoning plans. Increase surveillance by increase the staff /volunteers monitoring the beach (sea turtle monitors). Improve signage. Hired firm & NGO can cover this activity. not priority 1 | Priority rank 2 Communication specialist will work with partners to develop signage and other communication materials. Hire a firm/NGO SDU will prepare the TOR. Communication plan has been developed and the proposal has been prepared, pending PSIPMU. National Parks will declare the turtle sanctuary. Check the timeline. Garbage collection bins provided at site. |
| Turtle poaching and destruction | Alternative livelihood support. Promoting alternative livelihood activities (local crafts, small-scale agriculture, and so on) to reduce turtle | Increase the contribution of Forest and Forest resources to livelihoods | To build capacity of four hundred (400)(number to be revised) persons involved in the fishing | | -Lack of awareness on value for turtle conservation | Train additional staff in turtle monitoring and turtle biology (Data recording protocol, monitoring | Priority rank 1 Refer to comments under pilot site 1. |

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| of turtle nesting | <p>poaching and other unsustainable activities.</p> <p>Biodiversity monitoring and awareness program. Participatory turtle conservation, monitoring, and awareness program</p> <p>Nature-based tourism. Tourism based on turtle conservation.</p> | <p>specifically in rural communities.</p> <p>Improvement to the monitoring of population numbers for endemic species and their habitats.</p> | <p>industry through workshops, meetings, training courses and general technical guidance from fisheries officials.</p> <p>To improve management of four (4) protected species in Saint Vincent and the Grenadines and further inform policy decisions.</p> <ul style="list-style-type: none"> - Cetaceans - Sea Turtle - Coral - Sea Urchins | | <p>-Lack of capacity and equipment for turtle monitoring</p> <p>-Lack of standardized methods and templates for turtle monitoring</p> <p>-Lack of citizens support for information gathering and reporting of illicit activities</p> | <p>techniques/templates and equipment).</p> <p>Train youths to involve them in turtle conservation (turtle biology, turtle handling, nest protection and monitoring.</p> <p>Increase number of turtle monitors (only one currently working on beach)</p> <p>Develop livelihood associated with turtle monitoring/watching.</p> <p>Declaration of proposed turtle sanctuary. Find out from national parks what is required/needed for this activity</p> | <p>Can explore Digital tagging turtles</p> <p>FD will develop budget plans on this</p> <p>Communication:</p> <p>Photo contest</p> <p>Art contest</p> <p>Turtle tagging, monitoring, adoption</p> <p>Maybe partner with FL Marine Turtle Center</p> <p>The police youth group was identified as a group to work with under this activity</p> <p>Garbage collection bins and signage to be provided at site.</p> |
| Loss of beach vegetation and Beach erosion due | <p>Eco-engineering for shoreline protection: (a) Assessment and introduction of ecosystem engineering approach for beach erosion control</p> | <p>.Protection of the national forest for sustaining</p> | <p>To collect biophysical data along beaches and coastlines & river assessment. Water quality</p> | | <p>-Vegetation gaps along part of the coast</p> <p>-Erosion and sediment</p> | <p>-Protection and restoration of indigenous coastal forest species.</p> <p>-Riverbank stabilization in the</p> | <p>Priority rank 2</p> <p>Forestry div has drone mapping capabilities</p> |

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| to wave actions | (physical investments supported through co-financing) and (b) vegetation shoreline stabilization (potential co-financing) | ecosystem services | testing, beach profiling, habitat mapping with the aid of drones) | | flow from watershed | upper watershed area (co-financing). | ACTION: Forest Division has to develop plan/budget on this by mid March Garbage collection bins and signage to be provided at site. |
| Pollution and waste disposal. | Reducing marine pollution. Garbage collection and management program and reduction of chemical farming | Protection of the national forest for sustaining ecosystem services | Development and production of fifty (50) fisheries related public awareness initiatives/material highlighting critical issues impacting the fishing industry. | Undertake effective management and conservation of parks and protected areas through resource mobilization, implementation of new regulations, declaration of PAs and monitoring mechanisms. | Awareness programs Beach cleanups Garbage collection pins | . | Priority rank 2 Garbage collection bins and signage to be provided at site. This activity will benefit under the UBEC project and the 5C's project. Can be excluded. |