

The Government of St. Vincent and the Grenadines



Environmental and Social Management Plan

**FORESTRY BIODIVERSITY AND WATERSHED-DEBRIS
MANAGEMENT SUB-PROJECT**

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Prepared by:
MINISTRY OF AGRICULTURE, FORESTRY, FISHERIES, RURAL TRANSFORMATION,
INDUSTRY & LABOUR - FORESTRY DEPARTMENT
and
VOLCANIC ERUPTION EMERGENCY PROJECT ENVIRONMENTAL AND SOCIAL
FRAMEWORK MANAGEMENT TEAM

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Acronyms and Abbreviations

- GoSVG - Government of Saint Vincent and the Grenadines
- BoSVG - Bank of St. Vincent and the Grenadines
- BRAGSA - Roads, Buildings and General Services Authority
- CWSA - Central Water and Sewerage Authority
- ESCP - Environmental and Social Commitment Plan
- ESMF - Environmental and Social Management Framework
- ESF - Environmental and Social Framework
- ESMP - Environmental and Social Management Plan
- ESS - Environmental and Social Standard
- EU - European Union
- LMP - Labour Management Procedures
- MoA - Ministry of Agriculture, Forestry, Fisheries, Rural Transformation Industry and Labour
- MoFEPIT - Ministry of Finance, Economic Planning, and Information Technology
- MoNM - Ministry of National Mobilization, Social Development, Family, Gender Affairs, Youth, Housing, and Informal Human Settlement
- MoTW - Ministry of Transport, Works, Lands and Surveys, and Physical Planning
- NEMO - National Emergency Management Office
- PIU - Project Implementation Team
- RPF - Resettlement Policy Framework
- SEP - Stakeholder Engagement Plan
- GRM - Grievance Redress Mechanism
- VEPP - Volcanic Eruption Emergency Project
- VINLEC - St. Vincent Electricity Services Limited

1. Introduction

1.1 Objectives of the ESMP

The purpose of the Environmental and Social Management Plan (ESMP) is to ensure that all social and environmental impacts and risks are identified and managed, through the implementation of appropriate social and environmental controls and the monitoring during the execution of works for the Forestry Biodiversity and Watershed - Debris Management sub-project in the northern mountain range of St. Vincent and the Grenadines. It sets out to ensure that the site works comply with relevant environmental legislation and the accepted good practices.

The ESMP will indicate how compliance with the requirements is to be achieved and specify the responsible personnel for achieving and monitoring compliance. The Forestry Department of the Ministry of Agriculture, Forestry, Fisheries, Rural Transformation, Industry & Labour (MAFFRITIL) is expected to use this document as a draft and update, where necessary, it as the sub-project works progresses. These updates should not reduce the scope contained in this draft, which is to be the minimum environmental and social framework management standard to be implemented during the execution of this sub-project.

Environmental, health and safety issues that need to be carefully managed during implementation of the watershed rehabilitation measures include:

- water pollution prevention runoff and its impacts on the downstream environment;
- soil erosion
- Use of machinery and equipment;
- management of solid waste and litter control;
- noise pollution;
- biodiversity displacement;
- emergency planning;
- occupational health and safety on the various sites,

Social issues that need to be carefully managed during these interventions include:

- employment related issues for site workers,
- sexual harassment,
- Cultural Heritage

1.2 Project Overview

The Government of St. Vincent and the Grenadines has received funding from the International Development Association (The World Bank) and the European Commission under the Caribbean Regional Resilience Building Facility Single-Donor Trust Fund for the Volcanic Eruption Emergency Project (VEEP).

The Volcanic Eruption Emergency Project (VEEP) was designed and developed to support the recovery efforts of St. Vincent and the Grenadines after the 2021 eruption of La Soufriere. The VEEP is funded by the International Development Association (World Bank) and the European Commission and is being implemented by the Economic Planning Division (EPD) of the Ministry of Finance, Economic Planning, and Information Technology (MoFEPIT).

Project activities commenced in January 2022 and will continue over five (5) years. The project has three components that aim to;

- provide short-term financial support to those displaced and affected by the eruption,
- enhance the Government's capacity to prepare for and to respond to emergencies and
- assist with "building back better" the critical services in the aftermath of the volcanic eruption.

The Forestry Biodiversity and Watershed Management sub-project works are in an effort to restore the forest resource and the function of the upper watershed on both the Windward and Leeward side of the northern mountain range. These works became necessary after the 2021 eruptions of the La Soufriere Volcano and the subsequent extreme rain events and of tropical storms. These events significantly impacted the forest resource in this area leaving pockets of denuded areas due to fallen trees, defoliation of forest vegetation, overgrowth of lianas and vines, slope instability and soil degradation due to increased erosion. This preventative mechanism aims to protect and rehabilitate the natural forest environment, restoring vegetation, wildlife and water resources.

The works will include forest restoration, management and conservation measures and soil conservation actions and are in alignment with the annual forestry management work plan. These works will be conducted in a manner that ensures environmental soundness and sustainable methods and use of material. The works will be conducted, temporary Field workers, hired from the various targeted communities due to the extensive scale of work sites. These temporary workers will be hired on short term contracts. Field workers, who are experienced in conducting regular forest management duties and other community personnel, will receive a daily wage of XCD 50.00 and Foremen and Chainsaw operators will receive a daily wage of XCD 60.00. Crews will be designated for each of the targeted areas and will comprise of Field Workers and will be supervised by a Foreman. The Forestry Northern Mountain Range Officers will provide oversight for the crews along with Forestry Supervisors. The crews, based on the activities being conducted, may include chainsaw operators for specialized activities.

The Forestry Department will ensure compliance with the World Bank ESF and ESSs through the constant monitoring of the works, will ensure that the activities are conducted according to the plan's guidelines to ensure minimal environmental and social impacts. Compliance oversight will be provided by the VEEP Environmental and Social Specialists.

1.3 Description of the Works for the Forestry Biodiversity and Watershed Management

The degradation of the forest in the northern mountain range has increased with the impacts of major natural disasters and these works will allow the restoration of the forest landscapes and ecosystems. The Forestry Biodiversity and Watershed Management sub-project will be implemented as a sub-component of the Debris management programme that is designed for the effective management and disposal of debris generated as the result of a natural disaster event. This subproject will assist with the restoration of the natural function of the upper watershed and forest reserve that was damaged by the ashfall from the recent volcanic eruption, subsequent meteorological events and exacerbated by indiscriminate farming practices in the North Leeward and North Windward areas.

The Forestry Department has been conducting similar works for more than seventy years, since the development of the Forestry Unit, under their forestry resource management program. These works will be executed through a participatory approach and will be conducted in the northern zones on both the Windward and Leeward side of the island, (From Rabacca Farms to Fancy on the Windward side, and Spring Village-Hermitage to Richmond on the Leeward side with interventions in over 40 areas and cover in excess of five hundred (500) acres (see Table 1 for Work plan). The activities include:

- i. *Soil and Water Conservation* - This involves the construction of Sediment Control Traps, contour drains, and other bio-engineering work on steep slopes and in areas prone to slippage. Additionally, it will involve reforestation in areas with significant gaps in the forest and forest/tree management activities.
- ii. *Forest/Tree Management - Thinning and Pruning/Chain saw Operations:* Removal of overhanging trees on hillsides that may be susceptible to the elements. Bucking and stock piling of fallen trees and branches throughout the forest and along rivers and streams. Crown thinning and pruning to encourage undergrowth, improve tree health and general soil management.
- iii. *Reforestation/Enrichment Plantation-* This includes site preparation, lining out and digging holes for planting the land above Tunnel Plot for reforesting using merchantable species; removal of overhanging trees on hillsides that may be susceptible to the elements; bucking and stock piling of fallen trees and branches throughout the forest and along rivers and streams; crown thinning and pruning to encourage undergrowth, improve tree health and general soil management.
- iv. *Agro-Forestry-* Procurement of Plants (436 acres of farm lands) spacing of (20"x20") 3,100 Seedlings
- v. *Nursery Programme* -The establishment of a flying nursery that aims to address two critical issues in the forestry industry: the cost and difficulty of replenishing planting stock due to mortality and the need to acclimatize plants to field conditions.
- vi. *Consultation and Workshop-*community outreach and education play a vital role in

building capacity towards sustainability and promoting behavioural change towards responsible environmental practices.

- vii. *Signage*-strategic signage will be placed to deter illegal activities and comply with the relevant legislation.

Temporary Forestry Range Workers from the various communities within which the works will be conducted, trained in forest rehabilitation by the Forestry Department, will be hired on short term contracts and the Forestry Department will provide oversight and monitor the works. The works will also be conducted simultaneously at the various sites, over a five (5) month period, in conjunction with the community awareness/education activities.

Work Plan for the various sites

Table 1: SOIL AND WATER CONSERVATION LOCATION

PROGRAM AREA	LOCALITY	SPECIFIC ACTIVITY	RESOURCES	ESTIMATED DURATION
Soil and Water Conservation	Fancy - Saga Gutter	Source, transport and plant planting materials in gully and strategically on farmlands, construct Sediment Control Traps in plantations, assist farmers in the area with soil and water conservation measures to minimize downstream impacts.	Planting materials (vetiver grass, <i>Pandanus</i> , <i>Gliricidia sepium</i> , Musa family plants), chainsaw, oil and gas, scoop, fruit trees,	12 days
	Fancy – Crabhole Dry River	Source, transport and plant planting materials in gullies and strategically in buffer Zones, construct Sediment Control Traps in plantations (Bio-engineering)	Drone device, planting materials, chainsaw, oil and gas, scoop, fruit trees, transportation	15 days
	Kramacou – Wind Blow	Stabilizing work on steep denuded slope. Planting of planting materials	Wild Pine, Black Sage, Vetiver Grass, <i>Gliricidia sepium</i> , scoop	5 days
Soil and Water Conservation	Owia-Coleman Gutter	Source, transport and plant planting materials in gullies, construct Sediment Control Traps in plantations, to minimize downstream impacts.	Planting materials (vetiver grass, <i>Pandanus</i> , <i>Gliricidia sepium</i> , Musa family plants, chainsaw, oil and gas, scoop, fruit trees, transportation	20 days
	Pointe - Bloody Bridge	Reduce the weight of trees on banksides above and below main road, source, transport and plant appropriate planting materials.	Planting materials (vetiver grass, <i>Pandanus</i> , <i>Gliricidia sepium</i> , Musa family plants, chainsaw, oil and gas, scoop, fruit trees, transportation	20 days
Soil and Water Conservation	Pointe – Morris	Planting of grass barrier and construction of Sediment Control Traps in ravine. Stabilizing work in ravine below road.	Planting materials (vetiver grass, <i>Pandanus</i> , <i>Gliricidia septum</i> , Musa family plants, chainsaw, oil and gas, scoop, fruit trees, transportation	20 days

PROGRAM AREA	LOCALITY	SPECIFIC ACTIVITY	RESOURCES	ESTIMATED DURATION
Soil and Water Conservation	Sandy Bay – Edmund Smith	Re-enforce stabilization work in gully. Thinning to encourage understory growth. Collaboration with farmers for stabilization of slope and contours. Agro-forestry method at lower end of slopes.	(Vetiver grass, <i>Pandanus</i> , <i>Gliricidia septum</i> , Musa family plants, chainsaw, oil and gas, scoop	10 days
	Sandy Bay – Bailey	Construction of Sediment Control Traps. Removal of trees.	(Vetiver grass, <i>Pandanus</i> , <i>Gliricidia sepium</i> , Musa family plants, chainsaw, oil and gas, scoop	25 days
	North windward Range	Digging of contour drains to minimize velocity of surface runoff, throughout <i>the North Windward Range</i>	Diggers, Cutlas	105 days
	Dry Rivers – London, Noel, Magum, Overland, Savannah Gutter, Orange Hill	Stabilizing the river banksides using live Sediment Control Traps, contours, grass barriers, Agro-forestry. Collaborate with farmers and encourage Sustainable Agriculture Systems such as zero-grazing on hillside slopes leading to tributaries or main stream from the upper watershed.	Planting materials (vetiver grass, <i>Pandanus</i> , <i>Gliricidia sepium</i> , Musa family plants, chainsaw, oil and gas, scoop,	100 days
Soil and water conservation	North Leeward Mokoshung Big Pasture Richmond	Clearing of rivers and streams from debris	Cutlass, Chainsaws, Gas, oils	15 days
	North Leeward (Mokoshung Tuscany Troumaca)	Clearing/Maintenance of roads/trails leading to plantations & parrot watch points. To facilitate monitoring and management of resources	Cutlass, Chainsaws, gas, oil	30 days
	North Leeward (Mokoshung)	Construction of contour drains	Cutlass, Diggers	15 days
	North Leeward (Mokoshung)	Site preparation, Planting of 300 ft. of vetiver grass	Cutlass, Diggers, Vetiver grass.	8 days
	Cocoa	Planting of Grass barriers	Cutlass, Diggers, Vetiver grass	5 days

Table 2: FOREST MANAGEMENT

PROGRAM AREA	LOCALITY	SPECIFIC ACTIVITY	RESOURCES	ESTIMATED DURATION
Forest Management	North Windward Range	Removal of overhanging trees on hillsides that may be susceptible to the elements. Bucking and stock piling of fallen trees and branches throughout the forest and along rivers and streams. Crown thinning and pruning to encourage undergrowth, improve tree health and general soil management. Rehabilitation works, Construction of contour drains Planting of 300 ft. of vetiver grass Enrichment planting	Chain saw, oil, gas, chain, file, safety gears, transportation, Pruning saw	60 days
	North Leeward Range			48 Days

Table 3: REFORESTATION /ENRICHMENT PLANTING

PROGRAM AREA	LOCALITY	SPECIFIC ACTIVITY	RESOURCES	ESTIMATED DURATION
Reforestation/ Enrichment planting	North Winward (Fancy Owia Pointe Sandy Bay)	Site Preparation, digging, staking, line-out, planting, enrichment planting	Cutlasses, scoop, plants, transportation	60 days
	North Winward (Overland, Mountain Rabacca Farms – Turnel Plot Savannah Gutter)			30 days
	North Leeward (Mokoshung)			99 days

Table 4: AGRO-FORESTRY

PROGRAM AREA	LOCALITY	SPECIFIC ACTIVITY	RESOURCES	ESTIMATED DURATION
Agro-forestry	North Windward	Site preparation, collection of planting materials, planting	Diggers, cutlass, plants	30 days
	North Leeward	Fencing of Agro-forestry plot to prevent tethering of animal	Diggers, cutlass, bio-fencing material	4 days

2. Policy, Legislative and Institutional Framework

2.1 Legislation

In Saint Vincent and the Grenadines a number of Government and statutory agencies have responsibility for environmental management in one form or another under various pieces of legislation. The following matrix provides a general overview of the agencies, laws and regulations pertaining to environmental management and disaster mitigation. They cover such areas as the environment, land use, water management (including domestic, commercial, and hazardous waste management), historical and cultural patrimony, public health, and disaster response. The varied environmental management efforts have generally been fragmented and stymied in many cases by a lack of coordinated efforts, absence of empowering legislation or regulations, and financial and technical resources.

Summary of pertinent agencies, the supporting legislations and scope of influence in Saint Vincent and the Grenadines.

Table 5: Legislation and Agencies for environmental management

Agency	Legislation	Scope
Ministry of Agriculture, Rural Transformation and Forestry and Fisheries	Fisheries Act (No.8, 1986), & later amendments (No.32, 1986, and No.25, 1989)	Promotion and management of fisheries and matters pertaining there to.
	Natural Forest Resource Act (1947) Forest Resource Conservation Act (No.47, 1992)	To provide for the conservation, management and proper use of the forest and watersheds, declaration of forest reserves, cooperative forest and conservation areas.
	Wildlife Protection Act (No.16, 1987) & later amendments (1988, 1991) • Wildlife Conservation Act (1991)	The conservation and sustainable management of the Nation's forest, wildlife and national park resources
Ministry of Tourism and Culture	• National Parks Act (No.33, 2002) • National Parks (Amendment) Act (No.13, 2010)	To preserve, manage, protect and develop the natural and cultural heritage of SVG, including the historical and cultural heritage of the Island

Agency	Legislation	Scope
Ministry of Transport, Works, Lands and Surveys, and Physical Planning [PPU]	<i>Town and Country Planning Act</i> (No.45, 1992)	<i>The Town and Country Planning Act</i> (No.45, 1992) guides planning in St. Vincent & the Grenadines. Under this act, the PPU has the legal authority for environmental management in general, including the evaluation of the need for and level of EIA requirements.
Department of Labour	<ul style="list-style-type: none"> • Occupational Safety and Health Act (2017) 	Makes the employer responsible, so far as is reasonably practicable, for the safety, health and welfare at work of all his employees.
Central Water and Sewerage Authority [Ministry of Health Wellness and the Environment]	<ul style="list-style-type: none"> • Central Water and Sewerage Act (No.6, 1978), amended in 1992 • Central Water and Sewerage Authority Act (No.17, 1991) 	Make better provision for the conservation, control, apportionment, and use of water resources of SVG.
Ministry of Health Wellness and the Environment [Solid Waste Management Unit]	<ul style="list-style-type: none"> • Environmental Health Services Act (No.14, 1991) • Environmental Impact Assessment Regulations (Draft, 2009) • Environmental Management Act (Draft, 2009) • Waste Management Act (No.31, 2000) 	Make provision for the conservation and maintenance of the environment in the interest of health generally and in particular in relation to places frequented by the public.

St. Vincent & the Grenadines has legislation in place to address environmental and social development issues within respective jurisdictions. The Town and Country Planning Act (No.45, 1992) was initiated to guide planning in St. Vincent & the Grenadines and falls under the jurisdiction of Ministry of Housing, Informal Human Settlement, Physical Planning, Lands and Surveys. Under the Act, Article 29, an EIA for environmentally sensitive projects or activities is required.

The Physical Planning Unit (PPU) has the legal authority for environmental management in general under this Act, including the evaluation of, the need for and level of EIA required. In St. Vincent & the Grenadines there is no grading system for projects requiring EIA but the scope of the EIA is determined through discussion with the PPU. The PPU functions as the technical/advisory arm of the Physical Planning and Development Board (PPDB), the body that oversees national development. The Act gives the Minister the ultimate and final decision on any planning matter. The Chair, Deputy Chair and Committee member of the PPDB are civil society member with the Town Planner as Secretary. Other members of the PPDB include representatives from the Police, National Properties, Transport and Works (Chief Engineer), Housing and Land Development Corporation, CWSA, VINLEC, Lands and Surveys, Kingstown Town board, the Ministry of Health Wellness and the Environment, Ministry of Agriculture and the Permanent Secretary in the Ministry of Housing.

The PPU is responsible for ensuring Project development occurs within the environmental and social requirements of St. Vincent & the Grenadines. As part of its regular responsibilities, the PPU will review the EIA and development applications as well as oversee all other development control related matters, from inspection, to monitoring and enforcement. The Physical Planning and Development Board (PPDB) has the legal authority for carrying out the purpose and provisions of the Town and Country Planning Act. Within this piece of legislation lies the authority of the Planning Department to "... make provision for the orderly development of land, the assessment of the environmental impacts of development, the grant of permission to develop land and for other powers to regulate the use of land, and for related matters."

As a signatory to the MEAs and SGD, Saint Vincent and the Grenadines has obligations to reduce its greenhouse gas emissions, protect and sustainably manage its biological diversity, prevent land degradation and ensure that livelihood issues are not threatened or compromised. The National Environmental Management Strategy and the National Economic and Social Development Plan 2013-2025 speaks to environmental sustainability; as a consequence, all activities under this component of the VEEP Project must respect and respond to these declarations and pronouncements.

The Forestry Department, as a Division under the MOAFFRITL, is supported by national legislation to support their role and the comply with all relevant legislation and regulations, including environmental legislation, and shall be responsible for ensuring their knowledge of the law in St Vincent and the Grenadines is current before beginning work on site.

The MOAFFRITL, being a state entity, is also required to comply with all regional and international agreement and treaties that the GoSVG ratified/is signatory to.

2.2 World Bank Environmental and Social Framework

Performance standards have been established within the World Bank Environmental and Social Framework (ESF) regarding the evaluation and management of the environmental and social

impacts of the projects they finance. To better manage the environmental and social risks of the projects, the following World Bank Environmental and Social Standards (ESS) in Table 6 will be used to guide these sub-project works.

Table 6: PERFORMANCE STANDARDS TO GUIDE PROJECT

Environmental and Social Standards (ESS)	Description and Objectives
ESS1 - Assessment and Management of Environmental and Social Risks and Impacts	ESS1 sets out responsibilities to assess, manage and monitor environmental and social risks and impacts associated with each project phase.
ESS2 - Labour and Working Conditions	ESS2 describes the importance of creating employment and income for comprehensive financial development and poverty reduction. It promotes safety and health at work, fair treatment and non-discrimination of project workers and the prevention of forced and child labour.
ESS3 - Resource Efficiency and Pollution Prevention and Management	ESS3 refers to resource efficiency, pollution prevention and pollution management requirements, it promotes the sustainable use of resources, including energy, water and raw materials and the avoidance or minimizing of the adverse impacts of pollution from project activities and pesticide use.
ESS4 - Community Health and Safety	ESS4 addresses the health, safety, and security risks and impacts on project-affected communities, with particular attention to people who may be vulnerable.
ESS8 - Cultural Heritage	ESS8 sets out general provisions on risks and impacts on cultural heritage from project activities. To protect cultural heritage from the adverse impacts of project activities and support its preservation. ESS8 also addresses the procedure for chance finds.
ESS10 -Stakeholder Engagement and Information Disclosure	ESS10 emphasises the importance of open and transparent participation between the client and stakeholders throughout the project life-cycle. It ensures that appropriate project information on environmental and social risks and impacts is disclosed to stakeholders in a timely, understandable, accessible and appropriate manner and format. ESS10 also ensures that project-affected parties (PAPs) have accessibility and inclusive means to raise issues and grievances and allow the client to respond to and manage such grievances through the Grievance Redress Mechanism (GRM).

2.3 Regulatory Authorities

The Forestry Department will, on a need's basis, liaison with the representatives of regulatory authorities in St Vincent, in particular, the following:

- **Ministry of Transport, Works, Urban Development and Local Government**
- **Ministry of Health and the Environment, (Public Health Department)**
- **Ministry of Finance, Economic Planning, and Information Technology, (the Volcanic Eruption Emergency Project, (VEEP))**
- **Ministry of Agriculture, Forestry and Fisheries, (Agriculture Department)**
- **Ministry of Transport, Works, Land and Surveys and Physical Planning, (Physical Planning Board)**
- **Ministry of Tourism, Civil Aviation, Sustainable Development and Culture, (Sustainable Development Unit)**
- **Central Water and Sewerage Authority**
- **National Emergency Management Office (NEMO)**

All Forestry Officers will liaise with these authorities for any incidents which:

- **Result or may result in pollution, statutory nuisances, or breaches of legislation, regulation or consents;**
- **Are the subject of complaints from the public.**

These incidents are also to be reported to the relevant regulatory authority or authorities so that appropriate remedial actions can be discussed. Any incidents of an emergency nature are to be reported immediately to the relevant Organisations above and to the World Bank within 48 hours.

3. Environmental and Social Impacts

These Environmental and Social Impacts were identified during the Environmental and Social Screening of the site and the intended works. This assessment was conducted in July 2023¹ (see **Appendix I**).

The E&S Screening assessment was conducted taking into consideration the activities involved during the forest restoration process, highlighted by Site of the structure and highlights the environmental and social impacts (see **Tables 1-4**) of the works for the duration of the subproject activities. These works include:

- Water and Soil Conservation
- Forestry Management
- Reforestation/Enrichment Planting
- Agro-Forestry
- Removal of overhanging trees on hillsides that may be susceptible to the elements.
- Bucking and stock piling of fallen trees and branches throughout the forest and along rivers and streams
- Crown thinning and pruning to encourage undergrowth, improve tree health and general soil management
- Construction of contour drains and sediment traps
- Installing of contours and planting of vetiver grass and grass barriers for embankment stabilisation and soil conservation
- Clearing of trails
- De-vining and removal of widow makers
- Pruning of trees
- Management of tree-lings

The works will be mainly done by hand, no heavy equipment will be used; weed trimmer, cutlasses and chainsaws will be utilised for forestry management activities. The risks associated with the works included in this subproject were rated low to moderate based on the activities and the location of the subproject site.

¹ The Screening Checklists are presented in Appendix I

Table 7: ENVIRONMENTAL IMPACTS

Environmental Impacts	Sites	Details
Contamination of soil	All	There is a low possibility of soil contamination in the areas during the execution of the works. This might be a result of petrochemical spills from the refuelling of equipment into the surrounding environment.
Dust Nuisance	All	There is a very low possibility of dust being a nuisance during the execution of the works. Most of the areas are in the forest where there are no residential buildings. Dust can be an issue for working in the general area of the cutting resulting in health and safety issues.
Increased noise levels	All	There is a low possibility of noise being a nuisance during the execution of the works. This will be temporary and only during work hours when these areas are occupied by workers and their chain saw usage. There are no sensitive wildlife areas in or around the immediate sites.
Air pollution	All	Minimal air pollution from equipment usage and dust from earthworks and falling of trees. The area is open and generally windy and should allow for quick dispersal of fumes and sawdust.
Removal of trees and vegetation loss	All	All activities that remove trees and result in vegetation loss will be conducted strictly in accordance with industry standards for forestry restoration. The removal of trees will be controlled and systematic. There will also be removal of vines, and pruning of trees and removal of dead and damage limbs only where necessary.

Environmental Impacts	Sites	Details
Liquid waste	All	There is the possibility of the need to transport fuel to the sites to refuel chainsaw equipment at the sites.
Solid waste	All	The project may produce solid waste from workers food/ drink containers.
Fire hazard	All	There is the low probability of a fire risk at the sites with the use of mechanised fuel operated equipment.
Soil Erosion and Slippage	All	There is a low possibility of soil erosion. This may also be in short term and in small amounts while vegetation takes hold.

Table 8: Social Impact

Social Impacts		Details	Impact level
Transparency in selecting workers	Hiring of workers	The Forestry Department will select from their trained range workers and a public call will be made for expressions of interest for those interested in employment for this activity.	Low
Safety of persons traversing in the area	All	Persons using the route through these areas to access their farmlands may be impacted by the work, but alternative routes can be taken outside of the areas where work is being conducted.	Low
Employment related issues	All	Workers employed temporarily by the Forestry Department to conduct these works may have issues with their payment, other employment related grievances/concerns.	Moderate
Employment of children	All	The Forestry Department will ensure that all persons employed for these interventions and any associated works are over the 18 years of age. No children will be allowed on the work sites.	Low
Risk to Cultural Heritage and Chance Finds	All	If any valuable or invaluable articles such as fabrics, coins artifacts, structures, or other archaeological relics are discovered, the excavation will be stopped and The National Trust will be notified.	Low
Chance Finds Human remains	All	There is the possibility, due to the remoteness of these sites, that human remains may be found.	Low
Sexual Misconduct and Harassment	All	Workers will be informed regarding appropriate behaviour and consequences of misconduct.	Low

Table 9: Health and Safety Impacts

Health and Safety Impacts		Details
Fall from height	Pruning and Trimming of Tress	Falls from height may occur if there is the need to climb trees for the pruning. There will be no climbing of tree, all pruning will be conducted with pruning saws.
Slips, trips and falls	All	Access to the site can be a sometimes long and difficult trek through mountainous terrain. Workers may be required to hike up and down steep slope along high ridges at high altitudes. There is the possibility of slips, trips and falls based on the site and state of the ground based on the weather conditions which can result in bruises, sprains and in extreme cases fractures and broken bones.
Moving objects	All	Work sites will have constant movement of people with planting and clearing equipment, working close to chainsaw equipment.
Excessive noise	Pruning and trimming of trees	Noise levels on the construction site can prove a significant safety risk to workers. Repetitive and excessive noise levels of 85 dBA and above can cause significant hearing impairment, which can lead to deafness. The prime sources of risk are chain saw and other power tools.
Manual Handling	All	The lifting, carrying and handling of heavy objects can lead to severe injuries, including Musculoskeletal disorder (MSDS). MSDS is common among construction workers and often affects their back or limb joints, muscles and tissues. The injury can cause mild to intense pain with a risk of permanent disability. The prime sources of this risk are the repetitive heavy lifting of logs and large tree branches and poor lifting posture.
Falling cut branches and windowmakers (detached/broken tree top limbs)	All	Moderate- High probability of falling branches causing injury and even in extreme cases death to workers.
Exposure to airborne dust particulates	All	Chainsaw usage will create fine material dust which can affect respiration and lung function. Exposure to excessive dust particulates can result in serious health conditions and lasting health implications for workers, including life-threatening illnesses such as asthma, silicosis and bronchitis. The primary sources of this risk are tree cutting.
Risk to the Community	All	There is no active community close to the sites at present that may be impacted. Low possibility of farmers accessing work areas.

4. Environmental and Social Mitigation Plan

This Environmental and Social Mitigation Plan was developed based on the results of the Environmental and Social Screening conducted in July, 2023 (see **Appendix I for the screening checklist**). It assesses the sub-project activities and allows the provision of effective environmental and social protection for the duration of the sub-project activities.

This Environmental and Social Mitigation Plan will attempt to capture all Environmental and Social issues that surround the aforementioned activity and propose mitigation measures to manage these impacts on the environment and its stakeholder.

It will also outline the method for recording and reporting Environmental and Social issues and the monitoring process to ensure compliance with the mitigation and eliminate adverse environmental and social impacts of the activities of this sub-project, offset them or reduce them to acceptable levels (see **Table 4**).

Table 10: ENVIRONMENTAL AND SOCIAL MITIGATION PLAN

Potential Environmental Impacts	Activities	Mitigation Measure	Responsibility for Implementation	Monitored By
Contamination of soil	<p>Refuelling and movement of chainsaws</p> <p>Transporting of fuel container to and from the site</p>	<ul style="list-style-type: none"> - Measures, such as drip trays and no spill fuel cans will be taken during the refuelling of any equipment during the daily operations to prevent spillage and pollution of the environment. - All containers carrying fuel will be covered at all times. - On site, the average fuel container is 5 gallons and the average chainsaw tank is 20 ounces (0.15 gallons) and 1 gallon of oil maintain operations of the chainsaw. In the event of spillage, the quantities will be significantly small to allow its degradation in the natural environment. - Fuel shall be placed in a leak-proof container to prevent spillage and leaching. 	<p>Forestry Staff</p> <p>Contract Workers</p>	<p>Forestry Rangers</p> <p>VEEP ESF Team</p>
Dust Nuisance		<ul style="list-style-type: none"> - Provision of PPE, in particular respirators and dust 	Forestry Staff	Forestry Rangers

Potential Environmental Impacts	Activities	Mitigation Measure	Responsibility for Implementation	Monitored By
	Felling and cutting of trees and logs Contouring, installing of soil retention measures	mask (N95 or similar) and the implementation of their correct usage will reduce the health and safety implications of dust nuisance when cutting trees. - The area is open and generally windy and should allow for quick dispersal of dust.	Contract Workers	VEEP ESF Team
Increase noise levels	Felling of trees/use of chainsaws	- Provision PPE, in particular ear muff and hearing protection devices and implementation of their correct usage will reduce the health and safety implications of increase noise levels.	Forestry Staff Contract Workers	Forestry Rangers VEEP ESF Team
Air pollution	Exhaust from chainsaw usage Dust from cutting of trees	- The area is open and generally windy and should allow for quick dispersal of fumes and dust. - Provision PPE, in particular respirators and implementation of their correct usage will reduce the health and safety implications of air pollution. - There will be no open burning of any kind on the site.	Forestry Staff Contract Workers	Forestry Rangers VEEP ESF Team
Removal of trees and vegetation loss	Forest Thinning De-vining	- There will be no unnecessary cutting of trees and clearing of natural vegetation. - There will be no use of herbicides or other chemicals. - There must be minimal impact on flora and fauna in the area. - All recognized natural habitats; wetlands and protected areas in the immediate vicinity of the activity must be protected from damage or exploitation. - Trees will be replanted in areas designated for reforestation.	Forestry Staff Contract Workers	Forestry Rangers VEEP ESF Team

Potential Environmental Impacts	Activities	Mitigation Measure	Responsibility for Implementation	Monitored By
Solid and liquid waste (General)	All interventions	<ul style="list-style-type: none"> - The workers shall abide by all relevant waste management and public health laws. - All waste will be collected and disposed of regularly and at the approved landfills by licensed collectors. - Whenever feasible the Forestry Department will reuse and recycle appropriate and viable materials (except asbestos or other hazardous material). - Brush and wood from trees felled will be used to construct sediment traps or given to farmers to be repurposed. <p>Upon completion, all wastes must be immediately removed from the area.</p>	Forestry Staff Contract Workers	Forestry Rangers VEEP ESF Team
Natural Disaster (Meteorological Event)	All interventions	<ul style="list-style-type: none"> - In the event of an extreme weather event, the Forestry Department will postpone watershed activities until the all clear is given by the relevant authorities. The Forestry Department are also involved in the damage assessment activities that occur after disaster events. - Additional measures could include implementation of the Emergency Response Plan and advance warning to workers. 	Forestry Staff Contract Workers	Forestry Rangers VEEP ESF Team
Fire hazard	Chainsaw usage	<ul style="list-style-type: none"> - Fuel on the work sites should be in relatively small amounts and are to be contained in the approved container, properly marked, handled and stored in the appropriate manner. - Only no-spill fuel containers will be used for storage of fuel and refuelling of chainsaws. - Forestry Department Workers will implement fire extinguishing techniques in the event of a fire. 	Forestry Staff Contract Workers	Forestry Rangers VEEP ESF Team

Potential Environmental Impacts	Activities	Mitigation Measure	Responsibility for Implementation	Monitored By
Soil Erosion and Slippage	Contouring, installing of soil retention measures	<ul style="list-style-type: none"> - The Forestry Department Rangers must ensure that appropriate erosion control measures such as silt fences/traps are installed when and where necessary. - Proper site drainage measures must be implemented, including drainage at the tops of slopes, around slopes, and beneath roadways. - The use of retaining structures and planting with deep-rooted grasses to retain soil during will be implemented as part of the watershed restoration activities. - The use of bio-engineering methods will be implemented as part of the watershed restoration activities to reduce erosion and land slippage. - The Forestry Department will ensure that the angle of the slope is kept within the limits of soil type. All slopes and excavated areas must be monitored for movement. 	<p>Forestry Staff</p> <p>Contract Workers</p>	<p>Forestry Rangers</p> <p>VEEP ESF Team</p>

Table 11: SOCIAL IMPACT AND MITIGATION

Potential Social Impacts	Activities	Mitigation Measure	Responsibility for Implementation	Monitored By
Safety of persons traversing in the area	All interventions	<ul style="list-style-type: none"> - Farmers and persons using the areas to access lands in and around the sites will not be hindered as the area is open and alternative accesses are readily available in the event work is being conducted along the path to their lands. There will be no hoarding or blockage required for these works. - Area should be structured to allow safe passage of humans and animals 	<p>Forestry Staff</p> <p>Contract Workers</p>	<p>Forestry Rangers</p> <p>VEEP ESF Team</p>

Potential Social Impacts	Activities	Mitigation Measure	Responsibility for Implementation	Monitored By
		<ul style="list-style-type: none"> - Implement access restriction at construction areas and access routes by specifying restricted zones, install fencing or barriers where necessary - Grievance mechanism should be actively and efficiently operated 		
Labour and working conditions	All interventions	<ul style="list-style-type: none"> - The GRM included in the LMP will be promoted to the workers conducting this activity. - A fair and transparent employment procedure should be adopted. - Equitable treatment of employees, non-discrimination and equal opportunity (Presently 137 males and 53 females have repressed interest). - The workers, the community and anyone the project affects must be allowed to register issues or grievances (including anonymous grievances) brought about by the project and seek redress without any hindrance or discrimination. - Workers must have access to a grievance mechanism for project workers. - Project stakeholders will be informed of the GRM and will also have access to the project-level grievance mechanism. - Gender issues and women participation and wage will be monitored by the VEEP E&S Team to ensure no discrepancy in wages of male and female workers for the similar works. 	VEEP ESF Team	VEEP ESF Team
Employment of Children	All Interventions	<ul style="list-style-type: none"> - Forestry Department will ensure that everyone employed with this subproject is over 18 years of age. - Record of all employee 	Forestry Staff	VEEP ESF Team
Employment related issues	All Interventions	<ul style="list-style-type: none"> - Workers will have access to the GRM and will be educated on its use. 	Forestry Staff	VEEP ESF Team

Potential Social Impacts	Activities	Mitigation Measure	Responsibility for Implementation	Monitored By
Sexual Misconduct and harassment	All Interventions	<ul style="list-style-type: none"> - All workers are required to sign a code of conduct (See Appendix III). - There is a zero tolerance of inappropriate behaviour 	VEEP ESF Team	VEEP ESF Team
Chance Finds	Reforestation and contouring activities	<ul style="list-style-type: none"> - The Foreman shall STOP immediately all work and cordon off the area upon discovery thereof and before removal, acquaint the Forestry Range Officers, VEEP Project Coordinator via the E&S Team, of such discovery and do not allow anybody access to the area, unless cleared by the National Trust. - Following the review of the relevant find, necessary arrangements will be implemented, such as determining the boundaries of the area, measures to be taken for its protection will be controlled by the National Trust - Information on cultural heritage discovered will be made public. 	Forestry Staff Contract Workers	Forestry Staff VEEP ESF Team
Chance Finds Human remains	All Interventions	<ul style="list-style-type: none"> - Contact nearest Police Station in the area of operation and VEEP Safeguard Team Immediately. - Contact National Trust Immediately and follow change finds process. Workers will also be briefed on this process. - Stop all work and cordon off the area and do not allow access ANYONE to the area, unless cleared by the Royal Saint Vincent and the Grenadines Police Force 	Forestry Staff Contract Workers	Forestry Staff VEEP ESF Team RSVGPF

Table 12: Potential Health and Safety Impacts and mitigations

Potential Health and Safety Impacts	Activities	Mitigation Measure	Responsibility for Implementation	Monitored By
Occupational Health and Safety Issues	All Interventions	<ul style="list-style-type: none"> - Workers will be certified in chainsaw usage to ensure proper handling of the equipment and to minimise injury, and to ensure that an Occupational Health and Safety Plan is in place to guide work activities and provide a safe environment for workers. - Workers will receive training in Occupational Health and Safety by the Forestry Department before the works have begun to ensure that all workers operate within a safe environment. - All relevant Labour and Occupational Health and Safety regulations must be adhered to, to ensure worker safety. - Workers must be provided with necessary equipment as well as protective gear as per their specific tasks such as hard hats, overalls, gloves, goggles, boots, etc. - The Forestry Department must ensure that there are basic medical facilities on-site and a first aid kit and staff trained in basic first aid. - Appropriate sharing of information within the workers on site must be done to inform workers of key rules and regulations to follow. 	Forestry Staff VEEP ESF Team	Forestry Rangers VEEP ESF Team
Fall from height	Felling of Tress Pruning Removal of Vines and	<ul style="list-style-type: none"> - The Forestry Department must assess the risk from work at height and organize and plan the work so it is carried out safely. There will be no climbing of trees during this activity. 	Forestry Staff	Forestry Rangers VEEP ESF Team

Potential Health and Safety Impacts	Activities	Mitigation Measure	Responsibility for Implementation	Monitored By
	Widow makers	<p>Trimming/Pruning will be conducted using pruning saws.</p> <ul style="list-style-type: none"> - PPE such as helmets, safety glasses, and gloves, will be provided and used by workers in the areas where this risk is present. - Areas where there activities are being conducted will be marked off with caution tape. The Temporary Field workers will be/have been trained by the Forestry Department staff in the necessary safety techniques to be implemented during such tasks. 		
Slips, trips and falls	<p>Accessing worksites</p> <p>All interventions</p>	<ul style="list-style-type: none"> - The Forestry Department Staff must manage the worksites and ensure that the access pathways and work site are clear and pathways kept free of hazards as much as is reasonably possible to allow for workers to move safely around the access paths and work sites. - Workers are familiar with the terrain as they are farmers and workers in the area. - Forestry Officers are trained in basic first aid and a suitable first air kit will be present at all the sites during the works Forestry Officers will implement the necessary emergency response in the event that an injury occurs. 	Forestry Staff	<p>Forestry Rangers</p> <p>VEEP ESF Team</p>
Moving objects	All interventions	<ul style="list-style-type: none"> - The workers should wear protective clothing such as high-vis jackets to be clearly seen, the proper protective shoes and helmets to protect them against impact from moving/falling objects. - Workers should be trained to be vigilant and aware of their surroundings and to avoid hazards. 	<p>Forestry Staff</p> <p>Contract Workers</p>	<p>Forestry Rangers</p> <p>VEEP ESF Team</p>

Potential Health and Safety Impacts	Activities	Mitigation Measure	Responsibility for Implementation	Monitored By
Excessive noise	Chain saw usage	<ul style="list-style-type: none"> - The workers will be provided with the appropriate PPE in the form of soundproof headphones to reduce the intensity of sound waves. - Forestry Supervisory Staff must ensure that PPE is properly worn when working in a high-noise level environment. - Safe use of chainsaw awareness 	Forestry Staff	Forestry Rangers VEEP ESF Team
Manual Handling	Cutting and movement of logs Movement of tree-lings	<ul style="list-style-type: none"> - The risk of manual handling would be reduced by training workers to carry safely to ensure sharing the knowledge on the proper assessment can be conducted and the posture required to carry out the tasks in the working environment. 	Forestry Staff	Forestry Rangers VEEP ESF Team
Exposure to airborne dust particulates	Chain saw usage Contouring, installing of soil retention measures	<ul style="list-style-type: none"> - Workers should be provided with and wear masks(N95 or similar) and properly clean before removing them. - Workers should take the necessary breaks during tasks that are associated with exposure to airborne and dust particles to reduce health and safety implications. 	Forestry Staff	Forestry Rangers VEEP ESF Team
Tools, Machines and hazardous Chemicals	Reforestation and Forest Tree management	<ul style="list-style-type: none"> - Use tools only for work for which they have been designed or developed, operated ONLY by workers who have been assessed as competent and/or undertaken the necessary training 	Forestry Department	Forestry Rangers VEEP EFS team

Potential Health and Safety Impacts	Activities	Mitigation Measure	Responsibility for Implementation	Monitored By
		<ul style="list-style-type: none"> - A list should be keep on the operational status of all machinery(date of service, condition) 		
Safe use of Chainsaws	<p>Felling of Trees</p> <p>Cutting of logs</p> <p>Pruning</p>	<ul style="list-style-type: none"> - Operators of chainsaws can demonstrate competency/training in the safe use of chainsaws to 1.5 times guide bar length. - Operators of chainsaws will be equipped with (and use) all the necessary gear; Chaps, Kevlar trousers and gloves; arborist's helmet with integral mesh face guard and ear defenders, gloves and arborist's boots. - Areas within which tree felling operations are to be undertaken will be marked clearly with caution tape so that members of the public cannot access danger zones easily. - Forestry Officers are trained in basic first aid and a suitable first air kit will be present at all the sites during the works - Forestry Officers will implement the necessary emergency response in the event that an injury occurs. - The chain saws purchased should have all the essential safety features: chain brake, throttle lock, right hand guard, chain catcher, and spark arrestor. - The saws should be in proper condition and maintained as needed to ensure safe operation. 	Forestry Department	<p>Forestry Rangers</p> <p>VEEP team ESF</p>

5. Environment and Social Monitoring Plan

The Environment and Social Monitoring Plan (ESMP) identifies monitoring objectives and specifies the type of monitoring, with linkages to the impacts assessed in the environmental and social assessment and the mitigation measures described in the ESMP. Specifically, the monitoring section of the ESMP provides (a) a specific description, and technical details, of monitoring measures, including the parameters to be measured, methods to be used, sampling locations, frequency of measurements, detection limits (where appropriate), and definition of thresholds that will signal the need for corrective actions; and (b) monitoring and reporting procedures to (i) ensure early detection of conditions that necessitate particular mitigation measures, and (ii) furnish information on the progress and results of mitigation.

5.1 Supervision, Monitoring and Reporting

Good site management includes the regular briefing of workers on H&S matters through tool box talks, the recording of all environmental management procedures and the maintenance of an Environmental and Social Management Register. Environmental monitoring must be undertaken by the Site Foreman in the same way, and through the same systems, as record keeping for health and safety matters. As these works will not accommodate a site office, the day to day on-site environmental monitoring will take the form of a site diary maintained by the Site Foreman, with oversight provided by the designated Forestry Range Officer for the area. The environmental and social files (inclusive of Health and Safety; incidents and accidents) will be maintained by the Forest Range Officer and will include:

- (i) A register of environmental effects, including records of measurable aspects of the site's environmental performance, relative to appropriate standards. To assist in recording, an Environmental Inspection Checklist would be prepared by the VEEP PIU prior to construction works starting (see **Appendix II**), for use by the Forestry Department. This is to be completed at least once per week and will form the basis of the file on environmental effects.
- (ii) A log of grievances from the GRM and workers GRM (see Appendix IV).
- (iii) A log of environmental incidents and complaints, including any unexpected events (e.g. contaminated materials being found), pollution occurrences (and what preventive/remedial action was taken) and public complaints (e.g. relating to noise or dust).
- (iv) A register of any health and safety incidents or accidents. Any significant event (that may result in at least two days lost work) must be reported to the PIU and Bank, using the form in Appendix V.
- (v) Photographs to demonstrate that working procedures and equipment comply with the requirements of the Environmental and Social Management Plan.

Any actions to be taken as a result of these checks and reports are to be recorded on a

Corrective Action Request Proforma (**Appendix II, Section C**).

Independent records are to be maintained by the Forestry Department Supervisory Staff. Records are to be made available upon request to representatives of the VEEP E&S Team

Environmental and Social monitoring and reporting is the responsibility of the Forestry Department, in accordance with the details contained in the relevant sections. Inspection of the Environmental and Social monitoring tools and reports will be the responsibility of the VEEP Environmental and Social Team and will include coordinating the results of the monitoring and reporting.

Environmental and Social Compliance Reports, will be provided to include a summary of the Forestry Departments environmental, social, health and safety performance based on the weekly, environmental and social monitoring activity findings, accidents and incident reports and complaints and grievances logged, are to be submitted to the client and the client's representative on a monthly basis.

5.2 Environmental and Social Monitoring and Inspection

The purpose of Environmental and Social (E&S)_Inspections and review of the E&S register/file is to provide an independent check that appropriate environmental and social management is taking place, in accordance with statutory requirements, licences and the Environmental and Social Management Framework (ESMF) prepared for the project. The E&S Inspection will also review the results of monitoring undertaken during construction, to identify the need for any additional environmental management or mitigation measures to be implemented.

The scope of the E&S Inspection will cover all the environmental issues relating to Forestry Watershed rehabilitation interventions which are addressed by the environmental component of the Environmental and Social Management Plan. The Inspection will be undertaken by the VEEP Environmental and Social Team.

The E&S Inspection will comprise a series of visits at intervals of approximately one week during activity.

The findings of the E&S Inspection will be presented at the monthly progress meetings, certifying compliance with the required standards, and highlighting any important findings, identifying any areas of non-compliance, including remedial actions to be undertaken.

This will be recorded in the form of an interim report that will be produced after each monthly visit, setting out any important findings, and highlighting any actions which site management is to take before the next visit of the Inspector. Any actions to be taken will be recorded on a Corrective Action Request proforma.

The project's monitoring and reporting tools are shown in Appendix II.

6. Project Management and Institutional Arrangements

6.1 ESMP Implementation Roles and Responsibilities

The Forestry Department will be responsible for ensuring compliance with all relevant legislation and with environmental controls and mitigation measures as well as the management of social issues as it pertains to those set out in Tables 9, 10 and 11 of the Potential Environmental, Social and Health and Safety Impacts and Mitigative Measures for Works.

The Forestry Department will be responsible for liaising with the various stakeholder agencies consultant and for emergency planning and will identify the principal person among its site staff who has overall responsibility for both ensuring and recording compliance with the Environmental and Social Management Plan and a deputy who will act in that capacity when the principal person is not on site. Crews will be designated for each of the targeted areas and will comprise of Field Workers and will be supervised by a Foreman. The Forestry Northern Mountain Range Officers will provide oversight for the crews along with Forestry Supervisors. The crews, based on the activities being conducted, may include chainsaw operators for specialised activities. It is proposed that the Forestry Northern Range Officers will be designated as the site's Environmental and Social Manager and the Foreman, designated as the deputy. The Forestry Supervising Officer and Forest Ranger is to also ensure that all the staff members are adequately trained and familiar with the relevant parts of this ESMP. The Site Foreman will ensure that daily operation of the crews is in compliance with what is required under this ESMP and the mission of the Forestry Department.

Compliance, of the works, with the Environmental and Social Management Plan will be supervised by an officer of the Government of St Vincent and the Grenadines (the VEEP Environmental and Social Team). The certified site operation records will be held at the Forestry Department Headquarters and will be made available for inspection by representatives of the Stakeholder agencies, and the public.

6.2 Cultural Heritage - Procedures for Chance Finds

All archaeological evidence should be documented in accordance with national law and the Chance Find Procedures in Appendix VI. Where excavation is carried out, this should be conducted by cultural heritage experts, in accordance with national law and the Chance Find Procedure, with the results provided to the appropriate cultural heritage authorities.

A chance find is any unanticipated discovery or recognition of cultural heritage. The possibility of chance finds may occur during the contouring and planting activities of this sub-project's works. Such finds include, for example, the discovery of a single artefact, an artefact indicating the presence of a buried archaeological site, human remains, fossilized plant or animal remains or animal tracks, or a natural object or soil feature that appears to indicate the presence of archaeological material.

When artefacts or sites of cultural heritage are encountered by chance during work activities, the sub-project must include a chance finds procedure. The steps in case of chance finds to be followed are:

- Stop all work in sensitive areas, and cordon off the area and do not allow anybody access to the area, unless cleared by the National Trust Department.
- Based on discussions with the competent authorities identify further action
- Actions at the site may require competent professionals who may need to be contacted and brought in, as needed.

All sub-project workers must receive sensitization training on the Chance Find Procedures (see **Appendix VI, outline of Chance Find Procedures**).

6.3 Covid-19 and other Communicable /Infectious Disease Considerations

There is still a risk of Forestry Range Workers being exposed to COVID-19 and other infectious diseases, proper measures in accordance with national public health guidelines, and public health good practices should be applied.

6.4 Emergency Response

It is the responsibility of the Forestry Supervising Officer to conduct a risk assessment and develop an on-site emergency response plan, which outlines contact information for the relevant emergency response authorities along with the necessary means for communication, which is accessible on the site. These authorities include but are not limited to:

- The Royal St. Vincent and the Grenadines Police Force, inclusive of the Traffic Department, Fire Services and Coast Guard Units
- Georgetown SMART Hospital
- The Milton Cato Memorial Hospital Emergency Unit
- The St. Vincent and the Grenadines Electricity Services (VINLEC).
- Central Water and Sewerage Authority (CWSA)
- National Emergency Management Organization (NEMO)

The sub-project emergency plan should include muster point (s), emergency routes; this plan should be communicated to all site personnel prior to the commencement of works at each site. In addition, the site should have signs and information on the basic actions to be taken during emergency - gathering points, emergency exits, contact phone numbers and information, location of relevant hospital/medical point. This set of measures should also cover First Aid information

All Forestry Range Workers should know the persons responsible for implementing the emergency response and their roles. The emergency response personnel's contact information should also be available to all employees.

There should be monthly workers meetings where the emergency response procedures are discussed.

6.5 Health and Safety

Occupational Safety and Health (OSH), also called Occupational Health and Safety (OHS), concerns workers' safety, health, and welfare. Safety is defined as "the well-being of employees whilst at work or carrying out work duties". The sub-project employee is defined as "anyone employed by activities of the sub-project including employees of the Forestry Department, contracted Forest Range Workers and sub-contractors on a full-time or a part-time basis providing support services.

The primary purpose of the Occupational Health and Safety measures is the safety and health of all the sub-project employees at work, the protection of the environment, and the conservation of resources associated with the sub-project. The measures also establish and define the authority for the OHS and associated safety systems. These measures should be enforced on all activities of the sub-project and Forestry Officers, contract workers and sub-contractors of the project through contractual arrangements as appropriate.

The obligations of the sub-project under the OSH policy include the following:

- Compliance with all national and international OSH legislation that applies to the participating country governments and the World Bank;
- Compliance with the Environmental and Social Standards of the World Bank;
- Establishment of safety systems, processes and performance;
- Continuous improvement of Safety Systems;
- Management and mitigation of adverse environmental and social impacts;
- Prevention of use of faulty equipment or sub-standard equipment.
- Establishment of the Grievance Redress Mechanism (GRM) for workers.

The sub-project should commit to safety considerations in conducting all its activities implement systems, processes, policies, and services that comply with national and international legal requirements, including industry standards and best practices concerning safety.

The Forestry Department shall provide a safe working environment for all employees of the department and contract workers, involved in the Watershed Management sub-project field works as far as is reasonably practicable, by:

- the provision and maintenance of plants and systems of work that are safe and without risks to health;

- arrangements for ensuring the safe handling, storage and transport of equipment and machinery;
- the provision of adequate and suitable protective clothing or devices of an approved standard to employees who, in the course of employment, are likely to be exposed to the risk of head, eye, ear, hand or foot injury, injury from air contaminant or any other bodily injury and the provision of adequate instructions in the use of such protective clothing or devices;
- the provision of information, instruction, training and supervision as is necessary to ensure the safety and health at work of employees;
- the provision and maintenance of access to and egress from the work site that is safe and without risks;
- ensuring that when hazardous chemicals are transferred into other containers or equipment, the contents are indicated in a manner which will make known to employees their identity, any hazards associated with their use, and any safety precautions to be observed;
- ensuring that information is provided on the handling and disposal of hazardous chemicals which are no longer required and containers which have been emptied but may contain residues of hazardous chemicals so that the risk to safety and health and the environment is eliminated or minimised; and
- Provision of on-site clean water, shade, and sanitary facilities.

Employees should be responsible, subject to their roles, for maintaining a safe environment, including assessing risks and actions to mitigate, minimise and manage risks to the safety of the work environment.

It is the duty of every employee –

- to take reasonable care for the safety and health of himself and of other persons who may be affected by their acts or omissions at work;
- to correctly use the personal protective clothing or devices provided for their use.

Employees at all levels have the authority to stop any activity they consider dangerous to themselves or other workers, the public or the environment.

Risk Assessment

The Forestry Department should conduct a risk assessment of the site and job activities to develop their occupational health and safety management plan and the emergency response plan and minimise the risk of injury by conducting various job activities related to the project. This should be done prior to engaging in any task, and updated periodically based on any accidents, incidents, or complaints.

Worker Orientation

The Forestry Department must provide new, inexperienced, transferred and returning department employees with an orientation at the start of the sub-project works. Health and safety orientation should be essential to the Forestry Department's health and safety management system. Orientation provides employees with the necessary safety information about their job and tasks, informs them of specific details about workplace hazards, and provides an opportunity to learn about the task for execution and their colleagues, ask questions, clarify new or confusing information, the code of conduct, the Grievance Redress Mechanism (GRM) and worker's rights to use the GRM.

Toolbox Safety Talk

The Forestry Department is required to conduct Safety Talks at least twice (2) times per week to reinforce key safety procedures and involve workers in a discussion of safety and health procedures and project requirements. The Forestry Supervising Officer must provide the Client with a copy of the Toolbox Safety Talk Plan. Each toolbox safety talk should be documented by having attendees sign an attendance roster, and these records should be provided when requested for safety inspections and audits. **(See Appendix II – Toolbox Safety Talk Attendance Form)**

Incident/Accident Reporting

All incidents or accidents, regardless of size or impact, related to the sub-project which has, or is likely to have, a significant adverse effect on the environment, communities, the public or workers including, inter alia, cases of sexual exploitation and abuse (SEA), sexual harassment (SH), accidents that result in death, serious or multiple injuries, cases of COVID-19, dengue and tuberculosis among sub-project workers must be reported immediately to the Director of the Forestry Department and the Client.

The Forestry Department must clearly communicate the importance of incident/accident reporting to employees. Incident/accident reporting policies and procedures must be developed and reviewed periodically to ensure the workplace effectively supports the management's health and safety goal of providing employees with a healthy and safe working environment. **(See Appendix V – Incident / Accident Reporting Form)**

Personal Protective Equipment (PPE) Guidelines

Foot Protection

Forestry Range Workers must wear safety boots and safety shoes to reduce the impact of a potential compression or puncture injury. The Forestry Department must set protective footwear standards for department Staff and contract workers working in subproject site areas or any associated works and situations with a likelihood or potential for anything to fall and injure the foot. Footwear standards must also be considered for occupations where there is potential for employees to slip and fall easily, such as on wet surfaces or unstable grounds. Forestry Range Workers required to work with feet submerged in water must be equipped with water-resistant boots.

Eye and Face Protection

The following tasks would require eye and face protection:

- Working around or with flying objects or in dusty (airborne particles) conditions such as chain saw operation, drilling, woodworking, chipping.

Head Protection

Head protection is designed to reduce the impact and potential of penetration to Forestry Range Workers working in situations where injury may occur because of falling or flying objects.

Hand Protection

When purchasing hand protection, the Forestry Department must consider not only the type of work the employee is doing, but also the conditions in which the employee is working. Traditionally, gloves are used to prevent cuts, abrasions, burns and chemical exposures. Consideration must also be made for employees working in hot temperatures or doing tasks requiring fine dexterity. Before purchasing gloves, the Forestry Department must confirm that the size and type of hand protection is adequate, identified as suitable for the task, and meets the employees' needs.

Hearing Protection

In areas or in working conditions where an employee is exposed to excessive noise (over 80 dBA) or where an employee is exposed to continuous, intermittent or impact noise, a hearing conservation procedure must be developed and implemented. It must include monitoring and measuring noise levels, mandatory use of proper and adequate hearing protection where noise levels exceed 85 dBA).

Respiratory Protection

In areas and for tasks where employees may be exposed to airborne contaminants that cannot be controlled by ventilation, the Forestry Department must provide adequate respiratory equipment and establish a code of practice for the equipment selection, care, use, maintenance and fitting. In addition, precautions, including mandatory use of respiratory protection, must be taken to protect employees working in conditions that may cause respiratory diseases such as Chronic Obstructive Pulmonary Disease (COPD), pneumoconiosis, inhalation fevers or respiratory irritation.

Skin Protection

Employees must wear or use protective equipment to protect from any hazard that may harm their skin. Employees are obligated to use gloves, boots, body coverings, eye protection, barrier cream or any other equipment to protect them from hazards that may injure the skin, where exposures to conditions may cause skin irritation or occupational dermatitis.

6.6 Labour Management Requirements

Given the sub-project's scope involving post-eruption recovery and rebuilding, no major labour-related risks are expected. However, the Environmental and Social Standards (ESS), specifically ESS2- Labor and Working Conditions and the project's Labour Management Procedures (LMP) provisions will apply, where appropriate, to fill gaps between GoSVG laws and World Bank standards. The project will engage all types of workers and national/expatriate consultants as per the labour provisions outlined in the Labour Management Procedures (LMP) and ESMP. Mitigation measures should be established by incorporating standardised clauses in the contract documents so that the Forestry Department are aware of the project's environmental and social obligations.

The LMP based on ESS2 covers the management of worker relations including, workers' specific Grievance Redress Mechanism, terms and conditions of employment, non-discrimination and equal opportunity, protection of the workforce, and prohibition. The OHS measures should follow ESS2, ESMF and ESMP concerning documentation and reporting of occupational accidents, diseases, and incidents; emergency prevention, preparedness and response, and remedies adverse impacts such as occupational injuries, deaths, disability, and diseases.

The Occupational Health and Safety (OHS) standards should be maintained with regards to workers' safety, health, and welfare of people at work. The PSIPMU will ensure compliance with the clauses regarding non-tolerance of Gender Based Violence (GBV), sexual harassment and exploitation and abuse and sexual harassment (SEA/SH), and discrimination. Project workers should be employed based on equal opportunity, and there should be no discrimination related to compensation, working conditions and terms of employment. All project workers should be given and receive training on the Code of Conduct (see Appendix III) as well as any OHS measures required under ESS2. These measures should be applied and enforced on all activities of the project, and the Forestry Department and its sub-contractors through contractual agreements as appropriate.

The obligations of the Forestry Department under the OHS policy include the following:

- Compliance with all national and international OHS standards that apply to GoSVG and the World Bank.
- Compliance with the World Bank ESF.
- Prevention of injuries and ill health of all project workers.
- Establishment of safety systems, processes and performance.
- Continuous review and improvements of the safety system.
- Management and mitigations of adverse environmental and social impact.
- Prevention of use of faulty equipment or substandard equipment.

The standards for labour and working conditions are defined in the SVG National Legal Framework. The project workers should be paid regularly as required by national laws and labour management procedures. In case of any gaps between the national legislation and ESS2, the ESS2 should apply. Any deductions from the payment of wages should be made as allowed by national laws or labour management procedures and project workers must be informed of the conditions under which such deductions would be made. Project workers should be provided

with adequate periods of rest per week, annual holidays, sick, maternity and family leave, as required by national laws and labour management procedures.

Age of Employment and the Verification Process

The Employment of Women, Young Persons, and Children Act (Part II/Article 8, 1938) prohibits the employment of children under the age of 14 years in any public or private industrial undertaking. On this project and all other VEEP sub-projects, underage children shall not be allowed to work. An adolescent who has completed 14 years of age (but below 18) shall be allowed with proof of age and fitness certificate from a designated official of the government. Adolescents over 14 years, but under 18 years will not be engaged to carry out work that is likely to be hazardous to or interfere with their education or that is harmful to their health or development.

All employees must be asked to produce a valid identification document (ID). The project should establish a record of all employees. A separate list of project workers 18 or under must be maintained to comply with ESS2 standards. If underage workers are found working on the project the following actions will be undertaken:

- Termination of the contract and services agreement immediately as per the Labour Act;
- Schedule a meeting with the child and seek to determine the reasons for seeking employment;
- Refer the child to other support services including social services and the Ministry of Education;
- Leverage the services of Non-government and Community Based Organizations to assist the child.

Direct Workers- Workers from within the project community

It is foreseen that men and women from the communities close to the project would gain employment based on their skillset and the need for workers on the project. In this case, ESS2 will apply. Specifically, paragraphs 9-15 (Working Conditions) and paragraphs 24-30 (Occupational Health and Safety). In addition, the project will assess any risk of child or forced labour within the community labour consistent with paragraphs 17-20 of ESS2. The VEEP Social and Environmental Specialist(s) will supervise that the working conditions and employment guidelines meet the standards and guidelines of the World Bank through the project LMP. Field workers will be paid a daily wage of XCD \$50.00 and Foremen and Chainsaw Operators will be paid a daily wage of XCD 60.00.

All workers engaged in the implementation of project activities will attend an orientation session and training sessions during the implementation of the project, to become fully familiar with all environmental and social safety procedures and regulations applicable to the project, all workers will sign a Code of Conduct. The Forestry Division will provide a register of all worker and keep a record of this information in the environmental and social file for the project.

Primary Supply Workers

In the event that the Forestry Department utilizes the service of a contractor, the contractors or subcontract to supply the materials and equipment will be guided by the ESMF and the LMP, and VEEP conditions and specifications on ESHS aspects to its subcontracting agreements, including to prevent the use of child labour, forced labour, and serious safety issues which may arise in relation to primary suppliers, and consistent with ESS2.

Grievance Redress Mechanism (GRM) for Labour

As part of the Labour Management Procedure (LMP), grievances that relate to project workers will be handled by a separate grievance redress mechanism from that of other project-related grievances. The grievance redress mechanism (GRM) will provide all direct workers and contracted workers (and, where relevant, their organizations) with channels to raise workplace concerns. Such workers, including corksers from the project site environ, will be informed of the grievance redress mechanism at the time of recruitment and the measures put in place to protect them against reprisal for its use. Measures will be put in place to make the grievance redress mechanism easily accessible to all such project workers. Workers from the project site environ can access the GM via local NGOs, project officers, or the Environmental and Social Team. The GRM for labour allows for the submission of anonymous complaints.

The Grievance Redress Mechanism (GRM) in the LMP also makes clear procedures for the handling of Sexual Exploitation and Abuse (SEA) and Sexual Harassment (SH) grievances. Complaints can be made in person, in writing, verbally over the phone, by fax, email or any other media. Concerns can be raised anonymously and/or to a person other than an immediate supervisor.

The Project Coordinator (PC) and the Social Focal Point assigned to the project will be designated as the key officers in charge of labour grievances resolution. Contact information to submit grievances is shown in **Table 13**.

Table 13: Contact information for submitting Labour related grievance

Name	Title	Telephone	Email address	Physical location
Marcelle Edwards-John	Deputy Director of Planning	457-1746	medwards-john@svgcpd.com cenplan@svgcpd.com	Administrative Building, Kingstown
Roxanne John	Project Coordinator	457-1746	rjohn@svgcpd.com cenplan@svgcpd.com	Administrative Building, Kingstown
DeAnna Ralph	Social Focal Point	494-3000	dralph@svgcpd.com cenplan@svgcpd.com	Administrative Building, Kingstown

The form used to labour register grievances is shown in **Appendix IV**, a separate log from that of other project-related grievances must be kept for labour grievances. Grievances must be treated with the utmost confidentiality and if they are registered on the project site should be forwarded immediately to the Project Coordinator, who receives all grievances.

For the processing and classification of labour-related grievances see VEEP LMP. through which grievances can be submitted is the same procedure as shown in **Section 7.1** of this document

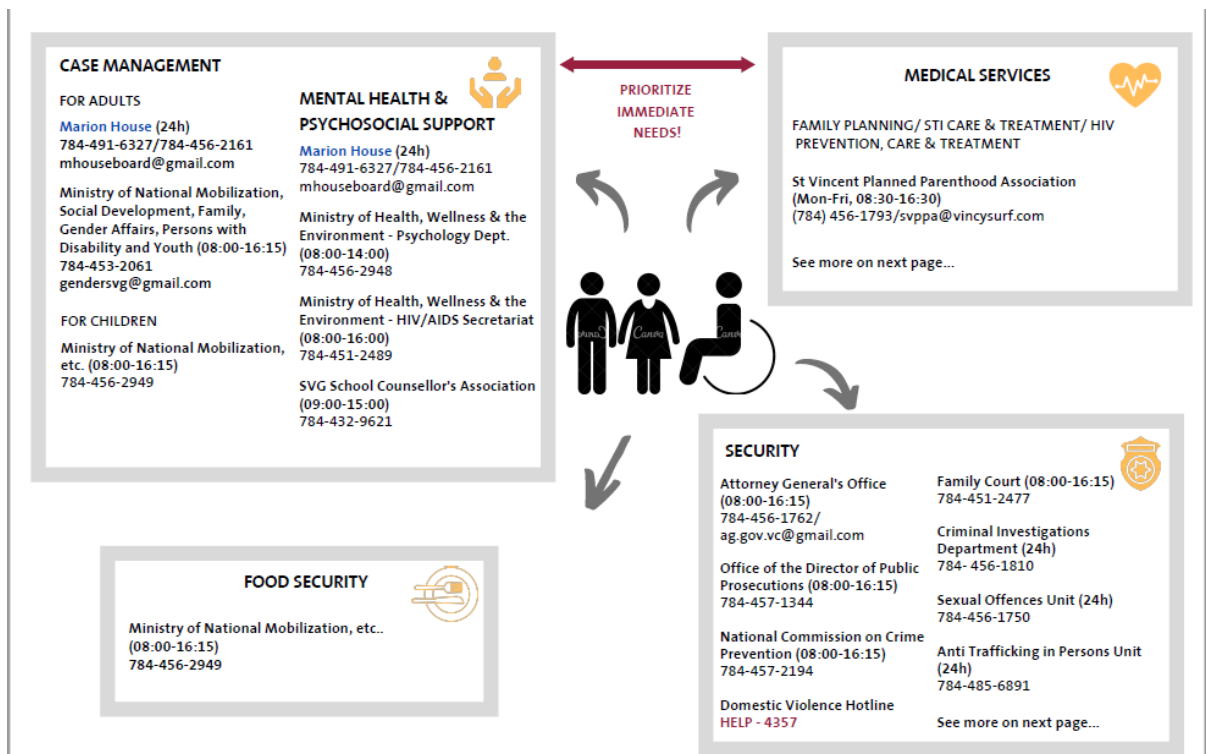
Addressing Gender-Based Violence (GBV)

The VEEP PIU specifies below the individual responsible for dealing with any GBV issues should they arise. The manifestation of GBV includes, but is not limited to:

- Physical violence (such as slapping, kicking, hitting, or the use of weapons);
- Emotional abuse (such as systematic humiliation, controlling behaviour, degrading treatment, insults, and threats);
- Sexual violence, which includes any form of non-consensual sexual contact, including rape;
- sending inappropriate videos or pictures with co-workers
- making sexual or lewd comments
- inappropriate and unwanted sexual advances or gestures
- making comments about body parts, clothing, or appearance in a sexual manner
- inappropriately making physical contact with another person
- asking a co-worker about their sexual orientation/history, etc
- making comments about someone's gender identity or sexual orientation
- being offered an employment benefit in exchange for a sexual favour
- Economic abuse and the denial of resources, services, and opportunities (such as restricting access to financial, health, educational, or other resources to control or subjugate a person);

The following is a list of GBV service providers;

- (i) Marion House
- (ii) Gender Affairs Department
- (i) Please see GBV Referral Pathway – SVG shown below



Source: GBV Referral Pathway- St. Vincent and the Grenadines

If any GBV-related incident occurs, it will be reported through the GRM, as appropriate and keeping the survivor information confidential. The Project Manager and the Social Specialist should assist GBV survivors by referring them to GBV Services Provider(s) for support immediately after receiving a complaint directly from a survivor.

Specifically, the GRM will only record the following information related to the GBV complaint:

- The nature of the complaint (what the complainant says in their own words without direct questioning);
- If, to the best of their knowledge, the perpetrator was associated with the Project; and,
- If possible, the age and sex of the survivor.

Any cases of GBV brought through the GRM will be documented but remain closed/sealed to maintain the survivor's confidentiality. Here, the GRM will primarily serve to:

- Refer complainants to the GBV Services Provider; and
- Record the resolution of the complaint

The GRM will immediately notify the Implementing Agency and the World Bank of any GBV complaints **WITH THE SURVIVOR'S CONSENT**.

7. Stakeholder Engagement

All public consultation for this sub-projected will be conducted by the Forestry Department in collaboration with the VEEP Social Specialist. Information leaflets with an outline of the sub-project along with contact information for further details, concerns or grievances will be provided in the communities closest to the various project sites. The VEEP Communications Officer will spearhead the communications and awareness and the undertaking will be supported by the entire VEEP Implementation Unit Team

The specific stakeholders identified for this sub project are: members in the North windward and North leeward communities including

Farmers:

Non farmer forest users:

The workers

Please see VEEP SEP for further consultation methodologies.

The following approach shall be taken for stakeholder consultations:

- i) ***Notification for consultation with stakeholders***
 - Targeted invitations to identified stakeholders, which also include crop farmers in the area, livestock farmers and those who would benefit from the project and users of the facilities.
 - Record meetings (minutes and/or audio recording) and photograph them.

- ii) ***Methodology of communication***
 - Consideration for literacy levels, persons with disabilities and any other aspects, particularly as they relate to vulnerable groups;
 - Oral communication is most effective, making direct calls can also be used (in case fixed-line or mobile phone communication is available);
 - Provide a safe space when consulting with LGBTI people and groups.
 - Selected day and time for project updates; and
 - Updates on social media platforms (Facebook and Instagram) and VEEP Website.
 - Select a communication liaison officer who provides all relevant details, including date, time, location/venue and contact persons.

iii) ***Grievance/project concerns /suggestions/comments***

- Provide a box at the project site to receive grievances. This can be used by any member of the affected community, project workers and the general public to provide written feedback on the contents of the presented materials.
- Grievances received should be forwarded to the Project Coordinator immediately.
- Provide a register to note all grievances and suggestions – transferred to an Excel file.
- Where necessary, a project representative or an appointed consultant should be made available to receive and record any verbal feedback in case some stakeholders experience difficulty with providing comments in written form.
- Grievances can also be received via telephone or email (see the section on Grievance Redress)

iv) ***Beneficiary feedback***

At the end of the public meeting evaluation forms would be provided to be completed by participants. The objective is to capture individual feedback from persons who may have refrained from expressing their views or concerns in public.

7.1 Grievance Redress Mechanism

A grievance refers to an issue, concern, problem, or claim, whether actual or perceived, that affects the physical, social and economic conditions of all workers in their workplace. They can occur at different stages of the project cycle.

- Inception – complaints about the perceived work conditions
- Implementation – complaints about wages, work-related injuries, discrimination, Violence
- Close – non-fulfilment of contractual agreement

ESS10 [Stakeholder Engagement and Information disclosure] requires that a Grievance Redress Mechanism (GRM) be created to address all concerns of the Project Affected Parties (PAP). The VEEP SEP has been created and disclosed.

The GRM aims to quickly address all relevant grievances to minimise or eliminate the negative impacts of the Project on affected persons. In satisfying its aim, the GRM will ensure that grievances are identified early and that the redress mechanisms are appropriate and expeditious, ultimately preventing escalation or unmanageable circumstances. The GRM can also help to minimise or eliminate conflicts with the potential to compromise the project development objective

The GRM provides the residents of Saint Vincent the Grenadines an opportunity to voice complaints or concerns and clarify and resolve misconceptions about the project activities. It provides a simple, transparent and timely manner to express their opinion or grievance related to project activities execution.

Processing of Grievance

1. Receive Grievance

The Project Coordinator should receive all grievances. Through the consultation process, stakeholders will be informed of various avenues through which the mechanism can be accessed.

Mode of receiving grievances

Complaints can be made in person, anonymously, in writing, verbally over the phone, by fax, email or any other media.

Sample Notification to the public on mediums through which grievances can be submitted

Email:	cenplan@svgcpd.com or wbgrievances@gov.vc
Telephone:	784-457-1746 what's app 784-494-3000
By letter:	The Project Grievance Officer - Volcanic Eruption Emergency Project Ministry of Finance, Economic Planning and Information Technology Bay Street Kingstown

The information contained in the sample notification will be placed at strategic points of each project site where employees or beneficiaries of the VEEP are operating.

2. Acknowledge the Grievance

All grievances will be acknowledged by telephone or in writing by the Project Coordinator within 48 hours of receipt. The complainant will be informed of the approximate timeline for addressing the complaint if it cannot be immediately addressed. The Project Coordinator will work with the E&S team to ensure the speedy resolution of the grievance. If the complaint cannot be resolved at this level, it is taken to the next level.

3. Register/Log

After receiving and recording the grievance on the Grievance Registration Form, it will be registered in the Grievance Redressal Registration. [Separate registration must be done for labour project grievances]. (See Appendix IV for the Grievance Registration Form)

Table 14: General GRM Contact Information

Name	Title	Phone	Email	Physical Address
Roxanne John	Project Coordinator	457-1746	rjohn@svgcpd.com cenplan@svgcpd.com	Financial Complex Bay Street Kingstown
Nyasha Hamilton	Environmental Focal Point	457-1746	nhamilton@svgcpd.com cenplan@svgcpd.com	Financial Complex Bay Street Kingstown
De-Anna Ralph	Social Focal point	457-1746	dralph@svgcpd.com cenplan@svgcpd.com	Financial Complex Bay Street Kingstown

4. Screen

The Project Coordinator reviews the complaint, classifies it, and assigns a grievance officer. The complaint will be forwarded to the E&S Team responsible for investigating the claim and liaising with both the aggrieved party and the project technical team to reach a mutually acceptable resolution. The complainant will be given a specific timeline for resolving the claim. Meetings with the grievant/complainant will be held, if necessary, in an attempt to resolve the matter. All meetings must be recorded.

5. Investigate

The grievance officer will investigate the complaint. This investigation will include but is not limited to meetings with the complainant, site visits, meetings and/or interviews with project staff and collection of relevant documentation and other forms of evidence. For meetings, the deliberations and decisions will be recorded on the Meeting Record Form. Community representatives or representatives of the complainant will be allowed to sit in on these meetings.

Under the VEEP, some components are being operated by quasi-government organisations such as CWSA and BRAGSA. PSIPMU will monitor all grievances received under the Project.

6. Classification of Grievance

- Level 1 When an answer can be provided immediately and/or the E&S team is already working on a resolution.
- Level 2 One-off event, a member of the Team & Project Coordinator, can provide a resolution
- Level 3 If the complaint is repeated or if it's a high-profile grievance that, if not resolved promptly, may represent significant risks to the environment or community, the Grievance Redress Committee will address it. Additionally, the Grievance

Redress Committee would address any complaint that indicates a breach of law or applicable policy/regulation.

Level 4 The Court of Law - Violations of rights, Gender-Based Violence (GBV), all grievances that the Grievance Redress Committee cannot resolve.

7. Resolution

The resolution at the first tier should generally be completed within fifteen (15) working days of receiving the grievance and notified to the concerned party through the Disclosure Form.

If the grievance is not being resolved within this period, it can be referred to the Grievance Redressal System's next level. However, once it is determined that progress is being made towards a resolution, the grievance will be retained at this first level. The complainant will be informed of this decision, and an estimated time for the resolution of the matter will be given either verbally or in writing. If the issue cannot be resolved within twenty-five (25) working days, it will be transferred to the next level. Once a resolution has been agreed upon and accepted, the complainant's acceptance will be obtained on the Disclosure Form. If the proposed resolution is not accepted, the grievance will be escalated to level 2.

The complainant will be informed in writing of the measures taken to address the grievance by the Project Manager or the Social Specialist if the complaint is against the Project Manager.

Actions To Be Taken When Processing a Grievance

- (i) If the complainant does not receive a response or is not satisfied with the outcome within the agreed time, they can lodge their grievance directly to the Grievance Redress Committee (GRC).
- (ii) All grievances concerning non-fulfilment of contracts, levels of compensation, or seizure of assets without compensation shall be made in writing and addressed to the GRC. Copies of the complaint shall be sent to the Project Coordinator. The GRC should issue a response within thirty (30) business days following communication from the aggrieved.
- (iii) Grievances that the Grievance Redress Committee cannot resolve shall be submitted to the Hon. Attorney General and the executing agencies. Should grievances remain unresolved at this level, they can be referred to the Court of Law.
- (iv) The Social Specialist should monitor and follow up on these grievances to enable timely attention.
- (v) If unresolved, either party may seek redress in the country's Courts. Parties involved will be advised that they can directly contact the Ministry of Finance and Economic Planning.

Notification About GRM

The following stakeholders will be notified of the GRM as specified herein.

(a) Contractors /Consultants /Project Coordinator /Project Personnel

At an inception meeting with the consultant, the Social Officer will explain the operation of the GRM, the other Environmental and Social Standards of the World Bank, and an awareness of the handling and monitoring of GBV.

(b) General public

During the project launch, notification about the project development should be given in collaboration with the Communication Specialist:-

- I. On the radio via the public service information
- II. Flyer distribution in the project area of influence, and,

(c) Workers

On the signpost at the project site, on project posters or communication documentation or wherever project activities are being realised, a notification will be displayed with the information whereby grievances can be submitted.

7.2 Disclosure of ESMP

A variety of methods as described in the methods and tools of engagement will be utilised to disclose information. The disclosure of the ESMP will follow the standard practice of all World Bank Project materials (ESMF, SEP, RFP or RAP) released for disclosure are accompanied by making available the registers of comments and suggestions from the public that are subsequently documented by the project implementation unit in a formal manner. The ESMP will be released in the public domain and will be available for stakeholder review.

Electronic copies of ESMP will be placed on the Government of Saint Vincent and the Grenadines website www.gov.vc. and the VEEP Website <http://veep.gov.vc/veep/>. The website will be equipped with an online feedback feature that will enable readers to leave their comments concerning the disclosed materials and information on where to direct all grievances.

A printed copy of the ESMP would be kept on the project site for public consultation and inquiry.

Appendix I -Environmental and Social Screening Checklists and Risk Assessment Sheets.

2.1 Forestry Biodiversity and Watershed - Debris Management sub-project – Coco Pasture Plantation

Section A. Project Details				
Sl. no	Components	Details		
1	Subproject description	Coco Pasture Plantation- Reforestation and Agro-Forestry (agro-silvopastoral system)		
2	Details of Alignment / Components (main components including construction activities) of subproject	Planting of fruit trees, local/native species, vetiver grass to reduce, digging of contour drains to reduce the velocity of surface runoff		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Area located in Fancy. Presently, area is an open pasture that was used as farmland in the past.		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/ Quantity	Unit	Details
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				

Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents, associated activities; mention distance to these features in meters/kilometres)		•	
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Area is sensitive; it is located within the watershed.
ii)	Cultural Heritage site, Protected monuments		•	
iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•	
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•	
v)	Any Natural Habitat areas, areas with natural features?		•	
vi)	Any other Sensitive Environmental Components?		•	
vii)	Any Residences, schools, hospitals, sensitive receptors?		•	
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•	
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•	
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•	
xi)	Details of Surface water quality at intake point		•	
xii)	Any areas affected by other disasters?	•		This area is also affected by hurricanes and other extreme rain events, drought, high wind events.
2	Is the site in Critical / Over Exploited condition?		•	
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events.

4	Describe the soil and vegetation on site			General sandy-loam soil. Grassland
5	Is the site area and condition suitable for proposed development?	•		Restoration and environmental protection measures being implemented.
6	Describe existing pollution or degradation in the site(s)			N/A
7	Any other remark on baseline condition?		•	

Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?	•				
vii)	Will the project involve any quarrying/ mining etc.?	•				
viii)	Will the project / any of its components	•				

	contaminate or pollute the Land?					
Section E. Impacts on Water Environment						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water sources (Quantity or Quality):					
i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources		•	High	Watershed restoration	High
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				
Section F. Impacts on Biodiversity and Host Communities						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					

i)	Will the project necessitates cutting of? Trees / Loss of Vegetation	•				
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				
iii)	Potential risk of habitat fragmentation due to the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)	•				
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities		•	Low	Noise from the planting activity may temporarily disturb habitats in the environs	Low
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?	•				
Section G. Impacts due to Storage and Wastes: Pollution and Hazards						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials	•				

	like Chlorine, Diesel, Petroleum products; any other?					
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?	•				
iii)	Will the project cause or increase air pollution or odour nuisance?	•				
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?	•				
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of waterbodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Moderate	Workers are at risk of injury from multiple sources and to varying degrees. Workers will be trained and high vigilance will be exercised at all times during the work day	Low to Moderate
viii)	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project				None	

	that could influence the ambient environment					
Section H. Suggested Environmental Enhancement Measures						
Sl. no	Components	Yes	No	Details		
14	Has the subproject design considered the					
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•			
ii)	Considered waste minimization or waste reuse/recycle options	•		Green waste produced is composted or reused for other restoration works such as silt traps and check dams.		
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures	•		Watershed restoration measures being implemented		
iv)	Considerations for extreme events, drought, flood, other natural disasters		•	Works will help in the event of droughts in the recharge of the aquifer and during extreme rainfall events to reduce surface water runoff, erosion and soil degradation.		
vi)	NOC for water withdrawal from surface water source			N/A		
vii)	Mining Permit (for dredging)			NA		
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.			NA		
ix)	Others (Mention)					
Section I. Land Use, Resettlement, and/or Land Acquisition						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				

2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				
5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				
11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify					
Section K. Welfare, Employment, and Gender						
Sl.no	Components	Yes	No	Details		
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		Temporary workers will be hired from the areas around the sites.		
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•				

14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation	•				
Section L. Historical, Archaeological, or Cultural Heritage Sites						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				
16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				
Section M. Tribal Population/Indigenous People						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				
Section N. Beneficiaries						
Sl. no	Components	Approx. no.		Details		
20	Population proposed to be benefitted by the proposed project	110,418 persons		The entire population of St. Vincent and the Grenadines would benefit from the services provided when this project is completed when there is any threat of volcanic activity. (Source: Statistical Office of St Vincent and the Grenadines)		

21	No. of Females proposed to be benefitted by the proposed project	54,241 females	The entire female population. (Source: Statistical Office of St Vincent and the
22	Vulnerable households /population to be benefitted	48.2 percent	
23	No. of Families to be benefitted	36,829	According to the national census 36,829 households are registered with an average of 3.0 persons per household (2012 CENSUS)

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	
Reviewed & accepted by	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by	PMU	DeAnna Ralph
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

2.2 Forestry Biodiversity and Watershed - Debris Management sub-project – Cole Man’s Gutter

Section A. Project Details				
Sl. no	Components	Details		
1	Subproject description	Cole Man’s Gutter - Agro-forestry, Soil and Water Conservation		
2	Details of Alignment / Components (main components including construction activities) of subproject	Planting of fruit trees, vetiver grass and local/native forest species, construction of check dams, digging of contour drains		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Located in Owia. Land privately owned and is use for agriculture.		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/	Unit	Details
		Quantity		
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				
Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents, associated			

	activities; mention distance to these features in meters/kilometres)			
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Vulnerable area, subject to soil erosion and soul degradation.
ii)	Cultural Heritage site, Protected monuments		•	
iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•	
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•	
v)	Any Natural Habitat areas, areas with natural features?		•	
vi)	Any other Sensitive Environmental Components?		•	
vii)	Any Residences, schools, hospitals, sensitive receptors?		•	
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•	
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•	
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•	
xi)	Details of Surface water quality at intake point		•	
xii)	Any areas affected by other disasters?		•	
2	Is the site in Critical / Over Exploited condition?		•	
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		This area is also affected by hurricanes and other extreme rain events, drought, high wind events.
4	Describe the soil and vegetation on site			Sandy-loam soil. Vegetation is mixed forest species, agriculture crops, pasture
5	Is the site area and condition suitable for proposed development?	•		Works are to mitigate the impacts of the farming practices in the area.
6	Describe existing pollution or degradation in the site(s)			N/A
7	Any other remark on baseline condition?			Soil, debris and other materials are deposited on

				the main road thus, creating problem such as access to and from communities. This affects economic progress, education and general services nationwide
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Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?	•				
vii)	Will the project involve any quarrying/ mining etc?	•				
viii)	Will the project / any of its component contaminate or pollute the Land?	•				

Section E. Impacts on Water Environment

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water sources (Quantity or Quality):					
i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources	•				
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				
Section F. Impacts on Biodiversity and Host Communities						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					

i)	Will the project necessitates cutting of? Trees / Loss of Vegetation	•				
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				
iii)	Potential risk of habitat fragmentation due to the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)	•				
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities	•				
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?	•				
Section G. Impacts due to Storage and Wastes: Pollution and Hazards						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel,		•	Low	Oil and gas to be used in chainsaw operation in low quantities.	Low

	Petroleum products; any other?					
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?	•				
iii)	Will the project cause or increase air pollution or odour nuisance?	•				
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?	•				
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of waterbodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities	•		Moderate	Workers are at risk of injury from multiple sources and to varying degrees. Workers will be trained and high vigilance will be exercised at all times during the work day.	Low to Moderate
viii)	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project				None	

	that could influence the ambient environment					
Section H. Suggested Environmental Enhancement Measures						
Sl. no	Components	Yes	No	Details		
13	Has the subproject design considered the					
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•	N/A		
ii)	Considered waste minimization or waste reuse/recycle options	•		Minimal green waste will be produced and will be reused for other restoration works such as silt traps.		
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures		•			
iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will assist in reducing soil loss and stabilise embankment to reduce land slippage during heavy rain events		
vi)	NOC for water withdrawal from surface water source		•	N/A		
vii)	Mining Permit (for dredging)		•	N/A		
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.		•	N/A		
ix)	Others (Mention)					
Section I. Land Use, Resettlement, and/or Land Acquisition						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				

2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				
5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				
11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify					
Section K. Welfare, Employment, and Gender						
Sl.no	Components	Yes	No	Details		
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		Temporary workers will be hired from the areas around the sites.		
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•				

14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation	•				
Section L. Historical, Archaeological, or Cultural Heritage Sites						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				
16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				
Section M. Tribal Population/Indigenous People						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				
Section N. Beneficiaries						
Sl. no	Components	Approx. no.		Details		
20	Population proposed to be benefitted by the proposed project					
21	No. of Females proposed to be benefitted by the proposed project					

22	Vulnerable households /population to be benefitted		
23	No. of Families to be benefitted		

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	
Reviewed & accepted by	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;

2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

2.3 Forestry Biodiversity and Watershed - Debris Management sub-project – Crab Hole

Section A. Project Details		
Sl.	Components	Details

no				
1	Subproject description	Crab Hole - Thinning and Pruning Operation, Vine Cutting and Liberation, Construction of check dams.		
2	Details of Alignment / Components (main components including construction activities) of subproject	Thinning and pruning operation, vine cutting and liberation, reforestation, construction of check dams		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Located in Fancy and includes plantations such as Chacha, Chacha extension, Vas Plot, Hill Top, CoCo Plot. Presently plantation forest for soil and water conservation. Past land use farmlands.		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/ Quantity	Unit	Details
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				
Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents, associated activities; mention distance to these features in meters/kilometres)			
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Area is sensitive; it is located within the watershed.
ii)	Cultural Heritage site, Protected monuments		•	

iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•	
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•	
v)	Any Natural Habitat areas, areas with natural features?		•	
vi)	Any other Sensitive Environmental Components?		•	
vii)	Any Residences, schools, hospitals, sensitive receptors?		•	
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•	
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•	
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•	
xi)	Details of Surface water quality at intake point		•	
xii)	Any areas affected by other disasters?		•	This area is also affected by hurricanes and other extreme rain events, drought, high wind events.
2	Is the site in Critical / Over Exploited condition?		•	
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events.
4	Describe the soil and vegetation on site			Sandy loam soil. The area is secondary forest, herbs and shrubs
5	Is the site area and condition suitable for proposed development?	•		Soil conservation and environmental protection measures to be implemented.
6	Describe existing pollution or degradation in the site(s)			N/A
7	Any other remark on baseline condition?		•	

Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?	•				
vii)	Will the project involve any quarrying/ mining etc?	•				
viii)	Will the project / any of its component contaminate or pollute the Land?	•				
Section E. Impacts on Water Environment						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water					

	sources (Quantity or Quality):					
i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources	•				
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				
Section F. Impacts on Biodiversity and Host Communities						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					
i)	Will the project necessitates cutting of? Trees / Loss of Vegetation		•	Low to Moderate	To improve plantation health and encourage ground cover for soil and water conservation.	Low to Moderate
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of	•				

	toxic gases, accident risks					
iii)	Potential risk of habitat fragmentation due to the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)		•	Low to Moderate	Minimal thinning and pruning. Work activities may disturb habitats in the work site.	Low
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities		•	Low	Temporary noise disturbance from workers in the area may disturb habitats in the environs.	Low
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?		•			
Section G. Impacts due to Storage and Wastes: Pollution and Hazards						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?		•	Low	Oil and gas to be used in chainsaw operation in low quantities.	Low

ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?	•	Low	Tree cuttings and dust from chain saw usage. Will not be in sufficient amounts to be considered a nuisance. Branches will be reused for other rehabilitation work such as silt traps.	Low
iii)	Will the project cause or increase air pollution or odour nuisance?	•			
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?	•	Low	Chainsaws are loud equipment but, based on the assessments, minimal work is to be done where chainsaws are concerned. Surveying data collected on parrots indicates that there are no parrots living in the areas. Information on other wildlife is unknown	Low
v)	Will the project generate or increase visual blight or light pollution?	•			

vi)	Will the project cause water pollution (Of waterbodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Moderate	Workers are at risk of injury from multiple sources and to varying degrees. Workers will be trained and high vigilance will be exercised at all times during the work day	Low to Moderate
viii)	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project that could influence the ambient environment				None	
Section H. Suggested Environmental Enhancement Measures						
Sl. no	Components	Yes	No	Details		
13	Has the subproject design considered the					
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•			
ii)	Considered waste minimization or waste reuse/recycle options	•		Waste materials would be used in the construction of check dams and excess to allow for alternative livelihood		
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures	•		Watershed restoration measures being implemented.		

iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will help in the event of droughts in the recharge of the aquifer and during extreme rainfall events to reduce surface water runoff, erosion and soil
vi)	NOC for water withdrawal from surface water source		•	
vii)	Mining Permit (for dredging)		•	
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.		•	
ix)	Others (Mention)			None

Section I. Land Use, Resettlement, and/or Land Acquisition

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				
2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				
5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				

7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				
Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?	•				
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				
11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				

11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify	•				

Section K. Welfare, Employment, and Gender

Sl.no	Components	Yes	No	Details
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		Temporary workers will be hired from the areas around the sites.
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•		
14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation	•		

Section L. Historical, Archaeological, or Cultural Heritage Sites

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				
16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				

18	Graves or sacred locations require excavations near the same?	•				
Section M. Tribal Population/Indigenous People						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				
Section N. Beneficiaries						
Sl. no	Components	Approx. no.		Details		
20	Population proposed to be benefitted by the proposed project			The entire community of Fancy will benefit through forest ecosystem services. Employment and livelihood opportunities to some households.		
21	No. of Females proposed to be benefitted by the proposed project					
22	Vulnerable households /population to be benefitted					
23	No. of Families to be benefitted					

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

Status	Agency / Official	Name, Signature with Date and Seal
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department

	Environmental Expert in charge	Sharika Mandeville
--	--------------------------------	--------------------

Checked and Categorized as (low, moderate, substantial, high) by		
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	
Reviewed & accepted by		
Reviewed & accepted by	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

Status	Agency / Official	Name, Signature with Date and Seal
Prepared by	Social Specialist	

	Social Expert / in – charge	DeAnna
Checked and Categorized as (low, moderate, substantial, high)	PMU	
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

2.4 Forestry Biodiversity and Watershed - Debris Management sub-project – Dry River

Section A. Project Details				
Sl. no	Components	Details		
1	Subproject description	Dry River- Vine cutting and liberation, Thinning and Pruning, Construction of check dams.		
2	Details of Alignment / Components (main components including construction activities) of subproject	Thinning and pruning operation, Vine cutting and Liberation, reforestation, construction of check dams, planting grass barriers		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Located in Fancy and includes plantations such as Underwood, Saga 1 and 2, Phamojah 1 and 2, Delroy 1 and 2, Judy, Grubb, Met. Presently plantation forest for soil and water conservation. Past land use was farmlands		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/	Unit	Details
		Quantity		
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A

(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?				N/A
Section C. Baseline Environmental Conditions					
Sl. no	Environmental Aspects	Yes	No	Details	
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents, associated activities; mention distance to these features in meters/kilometres)				
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Area is sensitive; it is located within the watershed.	
ii)	Cultural Heritage site, Protected monuments		•		
iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.	•		Located in the Upper watershed area of the North Windward Mountain Range.	
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•		
v)	Any Natural Habitat areas, areas with natural features?		•		
vi)	Any other Sensitive Environmental Components?		•		
vii)	Any Residences, schools, hospitals, sensitive receptors?		•		
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•		
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•		
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•		
xi)	Details of Surface water quality at intake point		•		
xii)	Any areas affected by other disasters?	•		This area is also affected by hurricanes and other extreme rain events, drought, high wind events	

2	Is the site in Critical / Over Exploited condition?		•	
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events.
4	Describe the soil and vegetation on site			Generally loamy soil. Steep slopes. Forested area
5	Is the site area and condition suitable for proposed development?	•		Restoration and environmental protection measures being implemented.
6	Describe existing pollution or degradation in the site(s)		•	
7	Any other remark on baseline condition?		•	

Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the		•	Moderate-High	Physical changes will be on the positive end with improvement in plantations' vegetative	Moderate

	topography) due to earth filling, excavation, earthwork or any other activity?				cover and improvement in plantations' health	
vii)	Will the project involve any quarrying/ mining etc?	•				
viii)	Will the project / any of its component contaminate or pollute the Land?	•				

Section E. Impacts on Water Environment

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water sources (Quantity or Quality):					
i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources		•	High	Watershed restoration	High
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				

Section F. Impacts on Biodiversity and Host Communities

Sl. no	Impacts		Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					
i)	Will the project necessitates cutting of? Trees / Loss of Vegetation		•	High	Materials would be used to construct check dams and create a form of livelihood for the community.	High
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				
iii)	Potential risk of habitat fragmentation due to the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)	•				
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities	•		High	Noise disturbance will be temporary. Noise resulting from the use of chain saws and machetes may disturb habitats in the environs.	High
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?	•				
Section G. Impacts due to Storage and Wastes: Pollution and Hazards						
Sl. no	Impacts		Yes/ May create	Expected Risk Rating	Details	Risk Rating

11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?		•	Low	Oil and gas to be used in chainsaw operation in low quantities.	Low
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?	•				
iii)	Will the project cause or increase air pollution or odour nuisance?	•				
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?		•	Low	Noise nuisance will be temporary. Chainsaws are loud but, based on the assessments, minimal work is to be done where chainsaws are concerned. Surveying data collected on parrots indicates that there are no parrots living in the areas. Information on other	Low

					wildlife is unknown	
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of waterbodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Low to Moderate	Use of chain saw and machete may pose risk of injury. Hiking to access the site may include risk of falls and slips that may result in personal injury to the workers. Workers will be trained and high vigilance will be exercised at all times during the work day	Moderate
viii)	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project that could influence the ambient environment				None	
Section H. Suggested Environmental Enhancement Measures						
Sl. no	Components	Yes	No	Details		
13	Has the subproject design considered the					

i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•	
ii)	Considered waste minimization or waste reuse/recycle options	•		Waste materials would be used in the construction of check dams and supply to locals as an alternative
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures	•		Watershed restoration measures being implemented.
iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will help in the event of droughts in the recharge of the aquifer and during extreme rainfall events to
vi)	NOC for water withdrawal from surface water source		•	N\A
vii)	Mining Permit (for dredging)		•	N\A
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.			N\A
ix)	Others (Mention)			

Section I. Land Use, Resettlement, and/or Land Acquisition

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				
2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				

4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				
5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in construction workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				

11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				
11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify					

Section K. Welfare, Employment, and Gender

Sl.no	Components	Yes	No	Details
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		Temporary workers will be hired from the areas around the sites.
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•		
14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation process?	•		

Section L. Historical, Archaeological, or Cultural Heritage Sites

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
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15	Historical heritage site(s) require excavation near the same?	•				
16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				

Section M. Tribal Population/Indigenous People

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				

Section N. Beneficiaries

Sl. no	Components	Approx. no.	Details
20	Population proposed to be benefitted by the proposed project		
21	No. of Females proposed to be benefitted by the proposed project	4 - Directly The entire female population will benefit indirectly	
22	Vulnerable households /population to be benefitted		
23	No. of Families to be benefitted		

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	

Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP
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Status	Agency / Official	Name, Signature with Date and Seal
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	
Reviewed & accepted by	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
-------------------------	--

Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> <i>Detailed</i> ESIA and ESMP <input type="checkbox"/> <i>ESA</i> <input type="checkbox"/> <i>RAP</i> <input checked="" type="checkbox"/> <i>Site-specific</i> ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

2.5 Forestry Biodiversity and Watershed - Debris Management sub-project – Old Well

Section A. Project Details		
Sl. no	Components	Details
1	Subproject description	Old Well - Strip planting of vetiver grass and fruit trees, digging contours for soil and water conservation and Agro-forestry (Incorporating agriculture crops and or ruminants with forest species)
2	Details of Alignment / Components (main components including construction activities) of subproject	Strip planting (Planting in uniform lines across the land space at different elevations on the slope leaving the other areas vegetated) of vetiver grass and fruit trees, digging contours
3	Location of the Sub-project Sites &	Located Old Sandy Bay. Presently privately owned for farming.

	Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)			
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/ Quantity	Unit	Details
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				
Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents, associated activities; mention distance to these features in meters/kilometres)			
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Area is sensitive; it is located within the watershed.
ii)	Cultural Heritage site, Protected monuments		•	
iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•	
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•	
v)	Any Natural Habitat areas, areas with natural features?		•	
vi)	Any other Sensitive Environmental Components?		•	

vii)	Any Residences, schools, hospitals, sensitive receptors?	•		The site is next to two private residences
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•	
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•	
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•	
xi)	Details of Surface water quality at intake point			N/A
xii)	Any areas affected by other disasters?	•		Heavy winds, torrential rains, seismic activity, drought.
2	Is the site in Critical / Over Exploited condition?	•		Continuous monocrop planting (arrowroot) and harvesting practices leave soil exposed and loose which makes land prone to soil erosion
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events.
4	Describe the soil and vegetation on site			Sandy-Loam soil with high sand content. Mainly root and tree crops (Fruit trees)
5	Is the site area and condition suitable for proposed development?	•		Restoration and environmental protection measures being implemented.
6	Describe existing pollution or degradation in the site(s)	•		Soil degradation due to excessive mono root crop production and topography of the land (steep slopes)
7	Any other remark on baseline condition?		•	

Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•			Soil and water conservation measures to decrease the effects of land degradation	
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?		•	Low	Physical changes may include the establishment of vegetation that will in-turn improve/ enhance the area vista and initial condition	Low
vii)	Will the project involve any quarrying/ mining etc?	•				
viii)	Will the project / any of its component contaminate or pollute the Land?	•				
Section E. Impacts on Water Environment						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause					

	any of the following impact on Water sources (Quantity or Quality):					
i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.		•		Will improve water quality by reducing soil runoff that contributes to high sediment loading in the river/stream. Will reduce run off during rainfall and increase infiltration and percolation into the water table. Aquifer supplies the communal well and increase recharge which allows for greater supply	Low
ii)	Impacts on Water Resources		•	High	Watershed restoration to increase recharge of aquifer	High
iii)	Pollution of Water bodies/ground water nearby or downstream		•	Low	These works will improve water quality in the streams/rivers nearby by reducing erosion and resulting siltation levels	Low
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?		•	Low	These works will improve the stream flow by the defining and ensuring the maintenance of the stability of the river embankments.	Low
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				

Section F. Impacts on Biodiversity and Host Communities

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
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10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					
i)	Will the project necessitates cutting of Trees / Loss of Vegetation	•		Low	Thinning and pruning operations will be done on a small scale. Trees will only be cut if areas are overcrowded to improve and encourage forest ground cover. Trees will also be replanted in areas that were previously deforested for farmland space. Materials from felled trees will be used in the construction of check dams to manage surface runoff and for alternative livelihood activities.	Low
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				
iii)	Potential risk of habitat fragmentation due to the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)	•				
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities	•				

v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?	•				
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Section G. Impacts due to Storage and Wastes: Pollution and Hazards

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?	•				
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?	•				
iii)	Will the project cause or increase air pollution or odour nuisance?	•				
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?	•				
v)	Will the project generate or increase visual blight or light pollution?	•				

vi)	Will the project cause water pollution (of waterbodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Low to Moderate	Use of chain saw, machete and tools with blades may pose risk of injury. Chainsaw operations will be done by skilled workers. However, these workers would be exposed to additional refresher training in chainsaw operation and handling, operational health and safety prior to the commencement of work. Most of the persons hired to conduct these works have been permanent staff employed by the Forestry Division. These employees are therefore familiar with the terrain and work activities. Vigilance will be exercised at all times.	Moderate
viii	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project				None	

	that could influence the ambient environment					
Section H. Suggested Environmental Enhancement Measures						
Sl. no	Components	Yes	No	Details		
13	Has the subproject design considered the					
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•			
ii)	Considered waste minimization or waste reuse/recycle options	•		Waste materials would be used in the construction of check dams and supply to locals as an alternative		
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures		•	N\A		
iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will help in the event of droughts in the recharge of the aquifer and during extreme rainfall events to		
vi)	NOC for water withdrawal from surface water source		•	N\A		
vii)	Mining Permit (for dredging)		•	N\A		
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.		•	N\A		
ix)	Others (Mention)					
Section I. Land Use, Resettlement, and/or Land Acquisition						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•			No lands will be acquired for these works. Collaboration with the farmers will be done in	

					the area to improve slope stability, soil integrity, reduce land slippage and encourage sustainable farming practices	
2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				
5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•			Working with those private landowners to improve their farming techniques with the implementation of contouring, soil retention and some aspects of agroforestry	

9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				
11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify	•				

Section K. Welfare, Employment, and Gender

Sl.no	Components	Yes	No	Details
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12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•		
14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation process?	•		

Section L. Historical, Archaeological, or Cultural Heritage Sites

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				
16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				

Section M. Tribal Population/Indigenous People

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of	•				

	any land belonging to Tribal people?				
Section N. Beneficiaries					
Sl. no	Components	Approx. no.	Details		
20	Population proposed to be benefitted by the proposed project				
21	No. of Females proposed to be benefitted by the	1 – Directly Indirectly the entire female population			
22	Vulnerable households /population to be benefitted				
23	No. of Families to be benefitted				

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	

Reviewed & accepted by	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Social Specialist	

Reviewed & accepted by	NPMU	
	Social Specialist	

2.6 Forestry Biodiversity and Watershed - Debris Management sub-project – Rabacca Farms

Section A. Project Details				
Sl. no	Components	Details		
1	Subproject description	Rabacca Farms - Thinning and Pruning Operation, Vine Cutting and Liberation, Construction of Check dams		
2	Details of Alignment / Components (main components including construction activities) of subproject	Thinning and pruning operation, vine cutting and liberation, reforestation and construction of check dams		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Located in Rabacca Farms and includes plantations such as Bamboo Range, Kiss Me, Target Ground, Eucalyptus Plot and Turnel Plot. Presently plantation forest for the purpose of soil and water conservation. Past land use farmlands		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/ Quantity	Unit	Details
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				

Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents, associated activities; mention distance to these features in meters/kilometres)			
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Area is sensitive; it is located within the watershed.
ii)	Cultural Heritage site, Protected monuments		•	
iii)	Natural Forests / Protected Areas Is the project in an eco-sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•	
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•	
v)	Any Natural Habitat areas, areas with natural features?		•	
vi)	Any other Sensitive Environmental Components?		•	
vii)	Any Residences, schools, hospitals, sensitive receptors?		•	
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•	
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•	
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•	
xi)	Details of Surface water quality at intake point		•	
xii)	Any areas affected by other disasters?	•		This area is also affected by hurricanes and other extreme rain events, drought, high wind events.
2	Is the site in Critical / Over Exploited condition?		•	
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events. Prone to soil erosion due to excessive surface run-off
4	Describe the soil and vegetation on site	•		Sandy loam soil. The area is secondary forest, herbs and shrubs

5	Is the site area and condition suitable for proposed development?	•		Restoration and environmental protection measures being implemented.
6	Describe existing pollution or degradation in the site(s)			N/A
7	Any other remark on baseline condition?		•	

Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?	•				
vii)	Will the project involve any quarrying/ mining etc?	•				
viii)	Will the project / any of its component contaminate or pollute the Land?	•				

Section E. Impacts on Water Environment

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water sources (Quantity or Quality):					
i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources		•		Watershed / Forest restoration	
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				
Section F. Impacts on Biodiversity and Host Communities						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					

i)	Will the project necessitates cutting of Trees / Loss of Vegetation?		•		To improve plantation health and encourage ground cover for soil and water conservation.	
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				
iii)	Potential risk of habitat fragmentation due to the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)	•			Minimal thinning and pruning	
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities		•	High	Noise disturbance will be temporary. Noise resulting from the use of chain saws and machetes may disturb habitats in the environs.	Moderate
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?	•				

Section G. Impacts due to Storage and Wastes: Pollution and Hazards

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel,		•	Low	Oil and gas to be used in chainsaw operation in low quantities	Low

	Petroleum products; any other?					
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?	•				
iii)	Will the project cause or increase air pollution or odour nuisance?	•				
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?		•	Low	Noise nuisance will be temporary. Generated from chainsaw usage and other pruning activities. Chainsaws are loud equipment but, based on the assessments, minimal work is to be done where chainsaws are concerned. Surveying data collected on parrots indicates that there are no parrots living in the areas. Information on other wildlife is unknown	Low
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of waterbodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Low to Moderate	Use of chain saw and machete may pose risk of injury. Hiking to access the site may include risk of falls and slips that may result in personal injury to the workers. Workers will be trained and high vigilance will be	Low

					exercised at all times during the work day.	
viii	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project that could influence the ambient environment					

Section H. Suggested Environmental Enhancement Measures

Sl. no	Components	Yes	No	Details
13	Has the subproject design considered the			
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•	
ii)	Considered waste minimization or waste reuse/recycle options	•		Waste materials would be used in the construction of check dams and excess to allow for alternative livelihood
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures	•		Watershed restoration measures being implemented.
iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will help in the event of droughts in the recharge of the aquifer and during extreme rainfall events to reduce surface water runoff, erosion and soil degradation.
vi)	NOC for water withdrawal from surface water source			N/A
vii)	Mining Permit (for dredging)			N/A
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.			N/A
ix)	Others (Mention)			

Section I. Land Use, Resettlement, and/or Land Acquisition

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				
2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				
5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				

10	Are financial compensation measures expected to be needed?	•				
Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				
11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify					
Section K. Welfare, Employment, and Gender						
Sl.no	Components	Yes	No	Details		
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		Temporary workers will be hired from the areas around the sites		

13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•				
14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation process?	•				
Section L. Historical, Archaeological, or Cultural Heritage Sites						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				
16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				
Section M. Tribal Population/Indigenous People						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				
Section N. Beneficiaries						
Sl. no	Components	Approx. no.		Details		
20	Population proposed to be benefitted by the proposed project					

21	No. of Females proposed to be benefitted by the	8 – Directly	
22	Vulnerable households /population to be benefitted		
23	No. of Families to be benefitted		

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	
Reviewed & accepted by	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

2.7 Forestry Biodiversity and Watershed - Debris Management sub-project – Rocks

Section A. Project Details				
Sl. no	Components	Details		
1	Subproject description	Rocks - Forest Extension/ Stabilizing Work. Reforestation, Soil and water conservation, Agro-forestry, Construction of check dams.		
2	Details of Alignment / Components (main components including construction activities) of subproject	Thinning and pruning operation, Vine cutting and Liberation reforestation, construction of check dams		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Located in Old Sandy Bay, presently plantation forest for soil and water conservation. Past land use farmlands		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/	Unit	Details
		Quantity		
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				
Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents, associated activities; mention distance to these features in meters/kilometres)			

i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Area is sensitive; it is located within the watershed.		
ii)	Cultural Heritage site, Protected monuments		•			
iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•			
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•			
v)	Any Natural Habitat areas, areas with natural features?		•			
vi)	Any other Sensitive Environmental Components?		•			
vii)	Any Residences, schools, hospitals, sensitive receptors?		•			
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•			
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•			
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•			
xi)	Details of Surface water quality at intake point		•			
xii)	Any areas affected by other disasters?	•		Area is affected by hurricanes and other extreme rain events, drought, high wind events.		
2	Is the site in Critical / Over Exploited condition?		•			
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events.		
4	Describe the soil and vegetation on site			Generally loamy soil. Forested area.		
5	Is the site area and condition suitable for proposed development?	•		Restoration and soil conservation measures being implemented.		
6	Describe existing pollution or degradation in the site(s)			N/A		
7	Any other remark on baseline condition?		•			
Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating

8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?	•				
vii)	Will the project involve any quarrying/ mining etc?	•				
viii)	Will the project / any of its component contaminate or pollute the Land?	•				
Section E. Impacts on Water Environment						
Sl. no	Impacts		Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water sources (Quantity or Quality):					

i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources	•		High	Watershed restoration	High
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				

Section F. Impacts on Biodiversity and Host Communities

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					
i)	Will the project necessitates cutting of Trees / Loss of Vegetation		•	High	Materials would be used to construct check dams and create a form of livelihood for the community.	High
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				
iii)	Potential risk of habitat fragmentation due to	•				

	the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)					
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities		•	High	Noise disturbance will be temporary. Noise resulting from the use of chain saws and machetes may disturb habitats in the environs.	High
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?		•			

Section G. Impacts due to Storage and Wastes: Pollution and Hazards

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?		•	Low	Oil and gas to be used in chainsaw operation in low quantities.	Low
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?		•	Low	Tree cuttings and dust from chain saw usage. Will not be in sufficient amounts to be considered a nuisance. Branches will be reused for other rehabilitation work such as silt traps.	Low

iii)	Will the project cause or increase air pollution or odour nuisance?	•				
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?		•	Low	Noise nuisance will be temporary. Chainsaws are loud but will be used in a minute capacity.	Low
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of waterbodies/ groundwater)?		•	Low	Noise nuisance will be temporary. Generated from chainsaw usage and other pruning activities.	Low
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Low to Moderate	The use of chain saws and machetes may pose risk of injury. Hiking to access the site may include risk of falls and slips that may result in personal injury to the workers. Workers will be trained and high vigilance will be exercised at all times during the work day.	Low
viii)	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project that could influence the ambient environment				None	
Section H. Suggested Environmental Enhancement Measures						
Sl. no	Components	Yes	No	Details		
14	Has the subproject design considered the					
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•			

ii)	Considered waste minimization or waste reuse/recycle options	•		Waste materials would be used in the construction of check dams and supply to locals as an alternative livelihood source
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures		•	Watershed restoration measures being implemented.
iv)	Considerations for extreme events, drought, flood, other natural disasters		•	Works will help in the event of droughts in the recharge of the aquifer and during extreme rainfall events to reduce surface water runoff, erosion and soil degradation
vi)	NOC for water withdrawal from surface water source		•	N\A
vii)	Mining Permit (for dredging)		•	N\A
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.		•	N\A
ix)	Others (Mention)			

Section I. Land Use, Resettlement, and/or Land Acquisition

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				
2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				

5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				

11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify	•				

Section K. Welfare, Employment, and Gender

Sl.no	Components		No	Details
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		Temporary workers will be hired from the areas around the sites.
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•		
14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation process?	•		

Section L. Historical, Archaeological, or Cultural Heritage Sites

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
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15	Historical heritage site(s) require excavation near the same?	•				
16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				

Section M. Tribal Population/Indigenous People

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				

Section N. Beneficiaries

Sl. no	Components	Approx. no.	Details
20	Population proposed to be benefitted by the proposed project		
21	No. of Females proposed to be benefitted by the		
22	Vulnerable households /population to be benefitted		
23	No. of Families to be benefitted		

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA

	<input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP
--	--

Status	Agency / Official	Name, Signature with Date and Seal
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	
Reviewed & accepted by	PMU	
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Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	

Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP
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<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by		
	PMU	
	Social Specialist	
Reviewed & accepted by		
	NPMU	
	Social Specialist	

2.8 Forestry Biodiversity and Watershed - Debris Management sub-project – Saga Gutter

Section A. Project Details		
Sl. no	Components	Details
1	Subproject description	Saga Gutter - Soil and Water Conservation
2	Details of Alignment / Components (main components including construction activities) of subproject	Planting of fruit trees, vetiver grass and local/native species. Construction of check dams, digging of contour drains
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use	Located in Fancy. Present and past land use is farmland

	(related to heritage, or contamination)			
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/	Unit	Details
		Quantity		
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				
Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents, associated activities; mention distance to these features in meters/kilometres)			
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Area is sensitive; it is located within the watershed.
ii)	Cultural Heritage site, Protected monuments		•	
iii)	Natural Forests / Protected Areas Is the project in an eco-sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•	
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•	
v)	Any Natural Habitat areas, areas with natural features?		•	
vi)	Any other Sensitive Environmental Components?		•	
vii)	Any Residences, schools, hospitals, sensitive receptors?		•	
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•	

ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•	
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•	
xi)	Details of Surface water quality at intake point		•	
xii)	Any areas affected by other disasters?	•		This area is also affected by hurricanes and other extreme rain events, drought, high wind events.
2	Is the site in Critical / Over Exploited condition?		•	
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events.
4	Describe the soil and vegetation on site			Generally loamy soil. Forested area and farming plots along mountain side
5	Is the site area and condition suitable for proposed development?	•		Water shed restoration and erosion protection measures being implemented.
6	Describe existing pollution or degradation in the site(s)			N/A
7	Any other remark on baseline condition?		•	

Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				

vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?	•				
vii)	Will the project involve any quarrying/ mining etc?	•				
viii)	Will the project / any of its component contaminate or pollute the Land?	•				

Section E. Impacts on Water Environment

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water sources (Quantity or Quality):					
i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources		•	High	Watershed restoration	High
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				

v)	Will the project result in stagnation of water flow or pondage or weed growth	•				
Section F. Impacts on Biodiversity and Host Communities						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					
i)	Will the project necessitates cutting of Trees / Loss of Vegetation	•				
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				
iii)	Potential risk of habitat fragmentation due to the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)	•				
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities		•	High	Noise from workers and work activities in the area will be temporary and may affect any biodiversity in the area.	High
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?	•				
Section G. Impacts due to Storage and Wastes: Pollution and Hazards						

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?	•				
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?		•	Low	Green waste produced will be reused for other rehabilitation work such as silt traps.	Low
iii)	Will the project cause or increase air pollution or odour nuisance?	•				
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?		•	Low	Temporary noise disturbance from workers in the area may disturb habitats in the environs.	Low
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of waterbodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety		•	Low to Moderate	Use of tools with blades may pose risk of injury.	Low

	concern to workers/ host communities				Hiking to access the site may include risk of falls and slips that may result in personal injury to the workers. Workers will be trained and high vigilance will be exercised at all times during the work day.	
viii	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project that could influence the ambient environment				None	

Section H. Suggested Environmental Enhancement Measures

Sl. no	Components	Yes	No	Details
13	Has the subproject design considered the following enhancement measures?			
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•	
ii)	Considered waste minimization or waste reuse/recycle options	•		Green waste produced is composted or reused for other restoration works such as silt traps and check dams.
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures	•		Watershed restoration measures being implemented.
iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will help in the event of droughts in the recharge of the aquifer and during extreme rainfall events to reduce surface water runoff, erosion and soil degradation.
vi)	NOC for water withdrawal from surface water source			N/A
vii)	Mining Permit (for dredging)			N/A

viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.					N/A
ix)	Others (Mention)					
Section I. Land Use, Resettlement, and/or Land Acquisition						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?					
2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				
5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				

9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				
11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify	•				

Section K. Welfare, Employment, and Gender

Sl.no	Components	Yes	No	Details
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12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•		
14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation process?	•		

Section L. Historical, Archaeological, or Cultural Heritage Sites

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				
16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				

Section M. Tribal Population/Indigenous People

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				

Section N. Beneficiaries			
Sl. no	Components	Approx. no.	Details
20	Population proposed to be benefitted by the proposed project		
21	No. of Females proposed to be benefitted by the	8 – Directly	Females within the Fancy community are heavily involved in craft. Conservation work includes the planting of vetiver grass and
22	Vulnerable households /population to be benefitted		
23	No. of Families to be benefitted		

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	
Reviewed & accepted by	PMU	

	Environmental Specialist	
--	--------------------------	--

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

2.9 Forestry Biodiversity and Watershed - Debris Management sub-project – Turnel Plot

Section A. Project Details				
Sl. no	Components	Details		
1	Subproject description	Turnel Plot - Plantation Rehabilitation		
2	Details of Alignment / Components (main components including construction activities) of subproject	Thinning and pruning operation, reforestation, construction of check dams		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Located in Turnell Plot in Rabacca, presently plantation forest for soil and water conservation. Past land use farmlands.		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/ Quantity	Unit	Details
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				
Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents, associated activities; mention distance to these features in meters/kilometres)			
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Area is sensitive; it is located within the watershed.

ii)	Cultural Heritage site, Protected monuments		•	
iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•	
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•	
v)	Any Natural Habitat areas, areas with natural features?		•	
vi)	Any other Sensitive Environmental Components?		•	
vii)	Any Residences, schools, hospitals, sensitive receptors?		•	
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•	
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•	
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•	
xi)	Details of Surface water quality at intake point		•	
xii)	Any areas affected by other disasters?	•		Hurricanes and other extreme rain events, drought, high wind events also impact the area.
2	Is the site in Critical / Over Exploited condition?		•	
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		The area is also affected by seismic events, hurricanes and other extreme rain events, drought, high wind events.
4	Describe the soil and vegetation on site			Soil is sandy loam and the vegetation is secondary forest
5	Is the site area and condition suitable for proposed development?		•	
6	Describe existing pollution or degradation in the site(s)			At present overflowing of excess water from the geothermal retention pond has caused soil erosion in the plantation, which leads to the widening of the gully.
7	Any other remark on baseline condition?			

Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
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8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?	•				
vii)	Will the project involve any quarrying/ mining etc?	•				
viii)	Will the project / any of its component contaminate or pollute the Land?	•				
Section E. Impacts on Water Environment						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water sources (Quantity or Quality):					

i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources	•				
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				

Section F. Impacts on Biodiversity and Host Communities

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					
i)	Will the project necessitates cutting of Trees / Loss of Vegetation	•				
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				
iii)	Potential risk of habitat fragmentation due to		•			

	the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)			Low to Moderate	Work activities may disturb habitats on the work site	Low
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities		•	Moderate	Temporary noise disturbance from workers in the area may disturb habitats in the environs.	Moderate
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?	•				

Section G. Impacts due to Storage and Wastes: Pollution and Hazards

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?		•	Low	Oil and gas to be used in chainsaw operation in low quantities.	Low
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?		•	Low	Green waste produced will be reused for other rehabilitation work such as silt traps.	Low

iii)	Will the project cause or increase air pollution or odour nuisance?	•				
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?		•	Low	The noise generated by workers and their work activities in the area will be temporary and may affect any biodiversity in the area.	Low
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of waterbodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Low to Moderate	Use of tools with blades may pose risk of injury. Access the site may include risk of falls and tripping that may result in personal injury to the workers. Workers will be trained and high vigilance will be exercised at all times during the work day	Low
viii)	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project that could influence the ambient environment				None	
Section H. Suggested Environmental Enhancement Measures						
Sl. no	Components	Yes	No	Details		
13	Has the subproject design considered the					
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•			

ii)	Considered waste minimization or waste reuse/recycle options	•		Green waste produced is composted or reused for other restoration works such as silt traps and check dams.
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures	•		Watershed restoration measures being implemented.
iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will help in the event of droughts in the recharge of the aquifer and during extreme rainfall events to reduce surface water runoff, erosion and soil degradation.
vi)	NOC for water withdrawal from surface water source			N/A
vii)	Mining Permit (for dredging)			N/A
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.			N/A
ix)	Others (Mention)			

Section I. Land Use, Resettlement, and/or Land Acquisition

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				
2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				

5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				

11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify					

Section K. Welfare, Employment, and Gender

Sl.no	Components	Yes	No	Details
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		Workers in this program will be hired from the communities where work is being conducted.
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•		
14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation process?	•		

Section L. Historical, Archaeological, or Cultural Heritage Sites

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				

16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				

Section M. Tribal Population/Indigenous People

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				

Section N. Beneficiaries

Sl. no	Components	Approx. no.	Details
20	Population proposed to be benefitted by the proposed project		
21	No. of Females proposed to be benefitted by the		
22	Vulnerable households /population to be benefitted		
23	No. of Families to be benefitted		

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

Status	Agency / Official	Name, Signature with Date and Seal
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Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by		
	PMU	
	Environmental Specialist	DeAnna Ralph
Reviewed & accepted by		
	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	

Environmental and Social Instruments Required	<input type="checkbox"/> <i>Detailed</i> ESIA and ESMP <input type="checkbox"/> <i>ESA</i> <input type="checkbox"/> <i>RAP</i> <input checked="" type="checkbox"/> <i>Site-specific</i> ESMP
--	---

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

2.10 Forestry Biodiversity and Watershed - Debris Management sub-project – Wind Blow

Section A. Project Details				
Sl. no	Components	Details		
1	Subproject description	Wind Blow - Soil and Water Conservation. Stabilization of slope and loose soil that is deposited on main road and increasing the chances of motor vehicle accident. Planting ideal tree species and grass		
2	Details of Alignment / Components (main components including construction activities) of subproject	Planting of vetiver grass, pandanus, <i>Gliricidia specium</i> and other species that can grow in the area's conditions		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Located in Kramacou (Between Owia and Fancy). Presently very loose soil that is deposited on the main road making it accident prone. No past use due to the soil type.		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/	Unit	Details
		Quantity		
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				
Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents, associated		•	

	activities; mention distance to these features in meters/kilometres)			
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		The area is located within the watershed and so can be considered sensitive.
ii)	Cultural Heritage site, Protected monuments		•	
iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•	
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•	
v)	Any Natural Habitat areas, areas with natural features?		•	
vi)	Any other Sensitive Environmental Components?		•	
vii)	Any Residences, schools, hospitals, sensitive receptors?		•	
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•	
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•	
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•	
xi)	Details of Surface water quality at intake point		•	
xii)	Any areas affected by other disasters?	•		Hurricanes and other extreme rain events, drought and high wind events also affect the area.
2	Is the site in Critical / Over Exploited condition?		•	
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events.
4	Describe the soil and vegetation on site		•	
5	Is the site area and condition suitable for proposed development?		•	
6	Describe existing pollution or degradation in the site(s)			N/A
7	Any other remark on baseline condition?			Area has always been prone to erosion by wind and water due to the nature of the soil and topography

Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?		•		Physical changes may include the establishment of vegetation that will in-turn improve/ enhance the area vista and initial purpose	
vii)	Will the project involve any quarrying/ mining etc?	•				
viii)	Will the project / any of its component contaminate or pollute the Land?	•				
Section E. Impacts on Water Environment						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water					

	sources (Quantity or Quality):					
i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources		•	High	Watershed restoration measures	High
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				
Section F. Impacts on Biodiversity and Host Communities						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					
i)	Will the project necessitates cutting of Trees / Loss of Vegetation	•				
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				

iii)	Potential risk of habitat fragmentation due to the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)	•				
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities		•	High	Noise disturbance will be temporary. Noise resulting from the use of chain saws and machetes may disturb habitats in the environs.	High
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?	•				

Section G. Impacts due to Storage and Wastes: Pollution and Hazards

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?	•				
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?		•	Low	Noise nuisance will be temporary. Generated from workers and their daily activities.	Low

iii)	Will the project cause or increase air pollution or odour nuisance?	•				
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?	•				
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of waterbodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Low to Moderate	Workers are at risk of injury from multiple sources and to varying degrees. Workers will be trained and high vigilance will be exercised at all times during the work day	Moderate
viii)	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project that could influence the ambient environment					

Section H. Suggested Environmental Enhancement Measures

Sl. no	Components	Yes	No	Details
13	Has the subproject design considered the following enhancement measures?			Not Necessary
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•	

ii)	Considered waste minimization or waste reuse/recycle options	•		Green waste generated from the works will be used on site for other watershed restoration measures such as silt traps.
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures	•		Measures being implemented will facilitate watershed restoration and aquifer recharge.
iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will contribute to the recharge of the aquifer and reduce soil erosion and soil degradation during extreme rainfall events by reducing surface water runoff.
vi)	NOC for water withdrawal from surface water source			N/A
vii)	Mining Permit (for dredging)			N/A
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.			N/A
ix)	Others (Mention)			

Section I. Land Use, Resettlement, and/or Land Acquisition

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				
2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				

5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				

11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify	•				

Section K. Welfare, Employment, and Gender

Sl.no	Components	Yes	No	Details		
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•				
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•				
14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation process?	•				

Section L. Historical, Archaeological, or Cultural Heritage Sites

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				

16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				

Section M. Tribal Population/Indigenous People

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				

Section N. Beneficiaries

Sl. no	Components	Approx. no.	Details
20	Population proposed to be benefitted by the proposed project		
21	No. of Females proposed to be benefitted by the proposed project	8- Directly	
22	Vulnerable households /population to be benefitted		
23	No. of Families to be benefitted		

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

Status	Agency / Official	Name, Signature with Date and Seal
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Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by		
	PMU	
	Environmental Specialist	
Reviewed & accepted by		
	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	

Environmental and Social Instruments Required	<input type="checkbox"/> <i>Detailed</i> ESIA and ESMP <input type="checkbox"/> <i>ESA</i> <input type="checkbox"/> <i>RAP</i> <input checked="" type="checkbox"/> <i>Site-specific</i> ESMP
--	---

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

**2.11 Forestry Biodiversity and Watershed - Debris Management sub-project –
Hermitage**

Section A. Project Details				
Sl. no	Components	Details		
1	Subproject description	Hermitage Blue Mahoe and Mahogany plantations – Pruning of the trees and thinning of the plantation		
2	Details of Alignment / Components (main components including construction activities) of subproject	Removal of the epicormic branches which resulted from the damage to the crown of the trees caused by ash fall during the volcanic eruption in the Blue Mahoe Plantation. Thinning of trees in the Mahogany plantation.		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Area located in the Hermitage watershed. The Blue Mahoe plantation is located along the slopes of a mountain. Some areas of the slope are steep and the plantation is approximately 30 minutes hike from the area access road. Mahogany Planation is located along the access roadway with easy access and situated on gently sloping land.		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/ Quantity	Unit	Details
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				
Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents, associated activities; mention distance to these features in meters/kilometres)			

i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Area is sensitive; it is located within the watershed.		
ii)	Cultural Heritage site, Protected monuments		•			
iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•			
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•			
v)	Any Natural Habitat areas, areas with natural features?		•			
vi)	Any other Sensitive Environmental Components?		•			
vii)	Any Residences, schools, hospitals, sensitive receptors?		•			
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•			
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•			
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•			
xi)	Details of Surface water quality at intake point		•			
xii)	Any areas affected by other disasters?	•		This area is also affected by hurricanes and other extreme rain events, drought, high wind events.		
2	Is the site in Critical / Over Exploited condition?		•			
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events.		
4	Describe the soil and vegetation on site			Generally loamy soil. Forested area.		
5	Is the site area and condition suitable for proposed development?	•		Restoration and environmental protection measures being implemented.		
6	Describe existing pollution or degradation in the site(s)			N/A		
7	Any other remark on baseline condition?		•			
Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
8	Will the proposed project cause the					

	following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?	•				
vii)	Will the project involve any quarrying/ mining etc.?	•				
viii)	Will the project / any of its components contaminate or pollute the Land?	•				

Section E. Impacts on Water Environment

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water sources (Quantity or Quality):					
i)	Will the activities have proposed at the site(s) impact water quality	•				

	(surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.					
ii)	Impacts on Water Resources		•	High	Watershed restoration	High
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				

Section F. Impacts on Biodiversity and Host Communities

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					
i)	Will the project necessitates cutting of? Trees / Loss of Vegetation		•	High	Removal of epicormic branches on Blue Mahoe Thinning of Mahogany tree-lings. Materials will be reused for check dams and Silt traps.	High
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				
iii)	Potential risk of habitat fragmentation due to the clearing activities?	•				

	(e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)					
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities		•	High	Noise disturbance will be temporary. Noise resulting from the use of chain saws and machetes may disturb habitats in the environs.	High
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?	•				

Section G. Impacts due to Storage and Wastes: Pollution and Hazards

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?		•	Low	Oil and gas to be used in chainsaw operation in low quantities.	Low
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?	•		Low	Tree cuttings and dust from chain saw usage. Will not be in sufficient amounts to be considered a nuisance. Branches will be reused for other rehabilitation work such as silt traps.	Low
iii)	Will the project cause or increase air pollution or odour nuisance?	•				

iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?		•	Low	Noise nuisance will be temporary. Generated from chainsaw usage and other pruning activities.	Low
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of water bodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Low to Moderate	Use of chain saw and machete may pose risk of injury. Hiking to access the site may include risk of falls and slips that may result in personal injury to the workers. Vigilance will be exercised at all times during the work day	Low
viii)	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project that could influence the ambient environment				None	

Section H. Suggested Environmental Enhancement Measures

Sl. no	Components	Yes	No	Details
13	Has the subproject design considered the			
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•	
ii)	Considered waste minimization or waste reuse/recycle options	•		Green waste produced is composted or reused for other restoration works such as silt traps and check dams.

iii)	Rainwater harvesting, water recycling and other water resource enhancement measures	•		Watershed restoration measures being implemented.
iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will help in the event of droughts in the recharge of the aquifer and during extreme rainfall events to reduce surface water runoff, erosion and soil degradation.
vi)	NOC for water withdrawal from surface water source			N/A
vii)	Mining Permit (for dredging)			N/A
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.			N/A
ix)	Others (Mention)			

Section I. Land Use, Resettlement, and/or Land Acquisition

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				
2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				
5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				

6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				
11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				

11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify					

Section K. Welfare, Employment, and Gender

Sl.no	Components	Yes	No	Details
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		Temporary workers will be hired from the areas around the sites.
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•		
14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation process?	•		

Section L. Historical, Archaeological, or Cultural Heritage Sites

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				
16	Archaeological heritage site(s) require excavation near the same?	•				

17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				
Section M. Tribal Population/Indigenous People						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				
Section N. Beneficiaries						
Sl. no	Components	Approx. no.		Details		
20	Population proposed to be benefitted by the proposed project	110,418 persons		The entire population of St. Vincent and the Grenadines would benefit from the services provided when this project is completed when there is any threat of volcanic activity. (Source: Statistical Office of St Vincent and the Grenadines)		
21	No. of Females proposed to be benefitted by the proposed project	54,241 females		The entire female population. (Source: Statistical Office of St Vincent and the Grenadines)		
22	Vulnerable households /population to be benefitted	48.2 percent				
23	No. of Families to be benefitted	36,829		According to the national census 36,829 households are registered with an average of 3.0 persons per household (2012 CENSUS)		

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	
Reviewed & accepted by	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	

Environmental and Social Instruments Required	<input type="checkbox"/> <i>Detailed</i> ESIA and ESMP <input type="checkbox"/> <i>ESA</i> <input type="checkbox"/> <i>RAP</i> <input checked="" type="checkbox"/> <i>Site-specific</i> ESMP
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<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

2.12 Forestry Biodiversity and Watershed - Debris Management sub-project – Cumberland

Section A. Project Details				
Sl. no	Components	Details		
1	Subproject description	Cumberland – Community green space upgrade		
2	Details of Alignment / Components (main components including construction activities) of subproject	Installation of perimeter fence and signage to prevent animals from damaging the plants and trees in the green space established by the Forestry Department which can be used by the community for recreational activities.		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Area located along the Cumberland River. Established and maintained as a green space/Community recreational area by the Forestry Department over 5 years ago. Untethered animals from the community have been grazing in the area and damaging trees and plants.		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/ Quantity	Unit	Details
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				
Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents,			

	associated activities; mention distance to these features in meters/kilometres)			
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Area is sensitive; it is located within the watershed.
ii)	Cultural Heritage site, Protected monuments		•	
iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•	
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•	
v)	Any Natural Habitat areas, areas with natural features?		•	
vi)	Any other Sensitive Environmental Components?		•	
vii)	Any Residences, schools, hospitals, sensitive receptors?		•	
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•	
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•	
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•	
xi)	Details of Surface water quality at intake point		•	
xii)	Any areas affected by other disasters?	•		This area is also affected by hurricanes and other extreme rain events, drought, high wind events.
2	Is the site in Critical / Over Exploited condition?		•	
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events.
4	Describe the soil and vegetation on site			Generally loamy soil. Forested area.
5	Is the site area and condition suitable for proposed development?	•		Restoration and environmental protection measures being implemented.
6	Describe existing pollution or degradation in the site(s)			N/A
7	Any other remark on baseline condition?		•	

Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
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8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?	•				
vii)	Will the project involve any quarrying/ mining etc.?	•				
viii)	Will the project / any of its components contaminate or pollute the Land?	•				
Section E. Impacts on Water Environment						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water sources (Quantity or Quality):					

i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources		•	High	Watershed restoration	High
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				

Section F. Impacts on Biodiversity and Host Communities

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					
i)	Will the project necessitates cutting of? Trees / Loss of Vegetation		•	High	Removal of epicormic branches	High
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				
iii)	Potential risk of habitat fragmentation due to	•				

	the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)					
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities		•	High	Noise disturbance will be temporary. Noise resulting from the use of chain saws and machetes may disturb habitats in the environs.	High
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?		•			
Section G. Impacts due to Storage and Wastes: Pollution and Hazards						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?		•	Low	Oil and gas to be used in chainsaw operation in low quantities.	Low
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?		•	Low	Tree cuttings and dust from chain saw usage. Will not be in sufficient amounts to be considered a nuisance. Branches will be reused for other rehabilitation work such as silt traps.	Low

iii)	Will the project cause or increase air pollution or odour nuisance?	•				
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?		•	Low	Noise nuisance will be temporary. Generated from chainsaw usage and other pruning activities.	Low
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of water bodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Low to Moderate	Use of chain saw and machete may pose risk of injury. Hiking to access the site may include risk of falls and slips that may result in personal injury to the workers. Vigilance will be exercised at all times during the interventions	Low
viii)	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project that could influence the ambient environment				None	
Section H. Suggested Environmental Enhancement Measures						
Sl. no	Components	Yes	No	Details		
13	Has the subproject design considered the					
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•			

ii)	Considered waste minimization or waste reuse/recycle options	•		Green waste produced is composted or reused for other restoration works such as silt traps and check dams.
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures	•		Watershed restoration measures being implemented.
iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will help in the event of droughts in the recharge of the aquifer and during extreme rainfall events to reduce surface water runoff, erosion and soil degradation.
vi)	NOC for water withdrawal from surface water source			N/A
vii)	Mining Permit (for dredging)			N/A
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.			N/A
ix)	Others (Mention)			

Section I. Land Use, Resettlement, and/or Land Acquisition

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				
2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				

5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				

11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify					

Section K. Welfare, Employment, and Gender

Sl.no	Components	Yes	No	Details
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		Temporary workers will be hired from the areas around the sites.
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•		
14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation	•		

Section L. Historical, Archaeological, or Cultural Heritage Sites

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				

16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				

Section M. Tribal Population/Indigenous People

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				

Section N. Beneficiaries

Sl. no	Components	Approx. no.	Details
20	Population proposed to be benefitted by the proposed project		
21	No. of Females proposed to be benefitted by the proposed project		
22	Vulnerable households /population to be benefitted		
23	No. of Families to be benefitted		

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	
Reviewed & accepted by	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	

Environmental and Social Instruments Required	<input type="checkbox"/> <i>Detailed</i> ESIA and ESMP <input type="checkbox"/> <i>ESA</i> <input type="checkbox"/> <i>RAP</i> <input checked="" type="checkbox"/> <i>Site-specific</i> ESMP
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<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

2.13 Forestry Biodiversity and Watershed - Debris Management sub-project – Troumaca

Section A. Project Details				
Sl. no	Components	Details		
1	Subproject description	Troumaca Bottom, Road to Paradise Beach– Embankment stabilisation		
2	Details of Alignment / Components (main components including construction activities) of subproject	Using vetiver grass to stabilise embankments to reduce erosion and land slippage.		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Area located along sections of the earthen roadway embankment which leads to Paradise Beach.		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/	Unit	Details
		Quantity		
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				
Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents,			

	associated activities; mention distance to these features in meters/kilometres)			
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Site used as an access road to a recreational site. Critical as heavy soil erosion in some areas is causing large sections of the roadway to be washed out and the embankment to slip presently making it impassable to vehicular traffic.
ii)	Cultural Heritage site, Protected monuments		•	
iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•	
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•	
v)	Any Natural Habitat areas, areas with natural features?		•	
vi)	Any other Sensitive Environmental Components?		•	
vii)	Any Residences, schools, hospitals, sensitive receptors?		•	
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•	
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•	
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•	
xi)	Details of Surface water quality at intake point		•	
xii)	Any areas affected by other disasters?	•		This area is also affected by hurricanes and other extreme rain events, drought, high wind events.
2	Is the site in Critical / Over Exploited condition?		•	
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events.
4	Describe the soil and vegetation on site			Generally, clay -loamy soil. Deposits of volcanic ash observed. Grassed area with

				tress and small shrubs along the roadway.
5	Is the site area and condition suitable for proposed development?	•		Soil conservation and environmental protection measures to be implemented.
6	Describe existing pollution or degradation in the site(s)			N/A
7	Any other remark on baseline condition?		•	

Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?		•	Moderate to High	Works should stabilise embankment and reduce further soil erosion and land slippage.	Moderate
vii)	Will the project involve any quarrying/ mining etc.?	•				
viii)	Will the project / any of its components	•				

	contaminate or pollute the Land?					
Section E. Impacts on Water Environment						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water sources (Quantity or Quality):					
i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources	•				
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				
Section F. Impacts on Biodiversity and Host Communities						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					

i)	Will the project necessitates cutting of Trees / Loss of Vegetation	•				
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				
iii)	Potential risk of habitat fragmentation due to the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)		•	Low to Moderate	Movement of workers and planting activities may disturb habitats in the work site.	Low
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities		•	High	Temporary noise disturbance from workers in the area may disturb habitats in the environs.	High
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?	•				

Section G. Impacts due to Storage and Wastes: Pollution and Hazards

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel,	•				

	Petroleum products; any other?					
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?		•	Low	Green waste produced will be reused for other rehabilitation work such as silt traps.	Low
iii)	Will the project cause or increase air pollution or odour nuisance?	•				
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?		•	Low	Noise from workers and work activities in the area will be temporary and may affect any biodiversity in the area.	Low
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of water bodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Low to Moderate	Use of tools with blades may pose risk of injury. Workers are at risk of injury from multiple sources and to varying degrees. Workers will be trained and high vigilance will be exercised at all times during the work day.	Low
viii)	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)					
12	Describe any other features of the project				None	

	that could influence the ambient environment					
Section H. Suggested Environmental Enhancement Measures						
Sl. no	Components	Yes	No	Details		
13	Has the subproject design considered the					
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•			
ii)	Considered waste minimization or waste reuse/recycle options	•		Green waste produced is composted or reused for other restoration works such as silt traps and check dams.		
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures		•			
iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will to reduce land slippage and soil erosion during extreme rainfall events by reducing surface water runoff.		
vi)	NOC for water withdrawal from surface water source			N/A		
vii)	Mining Permit (for dredging)			N/A		
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.			N/A		
ix)	Others (Mention)					
Section I. Land Use, Resettlement, and/or Land Acquisition						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				

2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				
5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				
11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify					
Section K. Welfare, Employment, and Gender						
Sl.no	Components	Yes	No	Details		
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		Temporary workers will be hired from the areas around the sites.		
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•				

14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation	•				
Section L. Historical, Archaeological, or Cultural Heritage Sites						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				
16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				
Section M. Tribal Population/Indigenous People						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				
Section N. Beneficiaries						
Sl. no	Components	Approx. no.		Details		
20	Population proposed to be benefitted by the proposed project					
21	No. of Females proposed to be benefitted by the proposed project					

22	Vulnerable households /population to be benefitted		
23	No. of Families to be benefitted		

Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	
Reviewed & accepted by	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;

2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and
3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

**2.14 Forestry Biodiversity and Watershed - Debris Management sub-project –
Petrum**

Section A. Project Details				
Sl. no	Components	Details		
1	Subproject description	Petrum – Embankment stabilisation		
2	Details of Alignment / Components (main components including construction activities) of subproject	Using vetiver grass to stabilise embankments to reduce erosion.		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Area located along steep sloped area accessible through a forested trail accessible by the use of a steep narrow trail.		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/ Quantity	Unit	Details
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				
Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/subcomponents,			

	associated activities; mention distance to these features in meters/kilometres)			
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Area is sensitive; it is located within the watershed.
ii)	Cultural Heritage site, Protected monuments		•	
iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.		•	
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•	
v)	Any Natural Habitat areas, areas with natural features?		•	
vi)	Any other Sensitive Environmental Components?		•	
vii)	Any Residences, schools, hospitals, sensitive receptors?		•	
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•	
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•	
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•	
xi)	Details of Surface water quality at intake point		•	
xii)	Any areas affected by other disasters?	•		This area is also affected by hurricanes and other extreme rain events, drought, high wind events.
2	Is the site in Critical / Over Exploited condition?		•	
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events.
4	Describe the soil and vegetation on site			Generally loamy soil. Grassed area.
5	Is the site area and condition suitable for proposed development?	•		Soil conservation and environmental

				protection measures to be implemented.
6	Describe existing pollution or degradation in the site(s)			N/A
7	Any other remark on baseline condition?		•	

Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?	•				
vii)	Will the project involve any quarrying/ mining etc.?	•				
viii)	Will the project / any of its components contaminate or pollute the Land?	•				

Section E. Impacts on Water Environment						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water sources (Quantity or Quality):					
i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources	•				
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				
Section F. Impacts on Biodiversity and Host Communities						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					

i)	Will the project necessitates cutting of? Trees / Loss of Vegetation	•				
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of toxic gases, accident risks	•				
iii)	Potential risk of habitat fragmentation due to the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)		•	Low to Moderate	Movement of workers and planting activities may disturb habitats in the work site.	Low
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities		•	High	Temporary noise disturbance from workers in the area may disturb habitats in the environs.	High
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?	•				

Section G. Impacts due to Storage and Wastes: Pollution and Hazards

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel,	•				

	Petroleum products; any other?					
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?		•	Low	Green waste produced will be reused for other rehabilitation work such as silt traps.	Low
iii)	Will the project cause or increase air pollution or odour nuisance?	•				
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?		•	Low	Noise from workers and work activities in the area will be temporary and may affect any biodiversity in the area.	Low
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of water bodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Low to Moderate	Use of tools with blades may pose risk of injury. Hiking to access the site may include risk of falls and slips that may result in personal injury to the workers. Workers will be trained and high vigilance will be exercised at all times during the work day.	Low
viii)	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project				None	

	that could influence the ambient environment					
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Section H. Suggested Environmental Enhancement Measures						
Sl. no	Components	Yes	No	Details		
13	Has the subproject design considered the					
i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•			
ii)	Considered waste minimization or waste reuse/recycle options	•		Green waste produced is composted or reused for other restoration works such as silt traps and check dams.		
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures	•		Watershed restoration measures being implemented.		
iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will help in the event of droughts in the recharge of the aquifer and during extreme rainfall events to reduce surface water runoff, erosion and soil degradation.		
vi)	NOC for water withdrawal from surface water source			N/A		
vii)	Mining Permit (for dredging)			N/A		
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.			N/A		
ix)	Others (Mention)					

Section I. Land Use, Resettlement, and/or Land Acquisition						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				

2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				
4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				
5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				
11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				
11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify					

Section K. Welfare, Employment, and Gender					
Sl.no	Components	Yes	No	Details	
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		Temporary workers will be hired from the areas around the sites.	
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•			

14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation	•		
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Section L. Historical, Archaeological, or Cultural Heritage Sites

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				
16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				

Section M. Tribal Population/Indigenous People

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				

Section N. Beneficiaries

Sl. no	Components	Approx. no.	Details
20	Population proposed to be benefitted by the proposed project		
21	No. of Females proposed to be benefitted by the		
22	Vulnerable households /population to be benefitted		

23	No. of Families to be benefitted		
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Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	
Reviewed & accepted by	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and

3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

**2.15 Forestry Biodiversity and Watershed - Debris Management sub-project –
Mokoshung**

Section A. Project Details				
Sl. no	Components	Details		
1	Subproject description	Mokoshung – Reforestation and access trail maintenance works Tuscany – Access trail maintenance works		
2	Details of Alignment / Components (main components including construction activities) of subproject	Mokoshung – Planting of trees and forestry maintenance works. Clearance and maintenance of the road leading to the site and watch point (Parrot monitoring and watch site). Contour drains, vetiver grass, and clearing of debris from rivers and streams. Signage Tuscany – Trimming and pruning Clearance of the trails to facilitate monitoring and management of the forest resources and Parrot.		
3	Location of the Sub-project Sites & Current Land use (Provide information for all sites involved in the sub-project), any historic land use (related to heritage, or contamination)	Area located in the Dark View. The site is located along the slopes of a Mokoshung mountain. Approximately 40 minutes hike from the Dark View Falls. Access to the site is along steep slope 30degree slope, treaders have been put in to access the site, but require maintenance.		
Section B. Proposed Resource Use				
Sl. no	Proposed Resources	Area/ Quantity	Unit	Details
(i).	Land Area proposed to be used: Location wise (in sq km / sq m)			
(ii).	Estimated energy consumption for the project activities – Source wise			N/A
(iii).	Estimated usage of water quantity for the project: Ground Water and Surface water?			N/A
Section C. Baseline Environmental Conditions				
Sl. no	Environmental Aspects	Yes	No	Details
1	Is the project site located on or adjacent to any of the following (Provide information for all sites and alignment of			

	the project components/subcomponents, associated activities; mention distance to these features in meters/kilometres)			
i)	Critically Vulnerable Coastal Areas, Eco-sensitive Areas	•		Area is sensitive; it is located within the watershed and the Parrot reserve.
ii)	Cultural Heritage site, Protected monuments		•	
iii)	Natural Forests / Protected Areas Is the project in an eco- sensitive or adjoining an eco-sensitive area? If Yes, provide details.	•		Yes
iv)	Any other Wetlands/ Mangrove/ Estuarine Region?		•	
v)	Any Natural Habitat areas, areas with natural features?	•		Parrot and other endemic species
vi)	Any other Sensitive Environmental Components?		•	
vii)	Any Residences, schools, hospitals, sensitive receptors?		•	
viii)	Any culturally – socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, borders, etc?		•	
ix)	Any Drinking water source, upstream and downstream uses of rivers, etc?		•	Downstream of Mokoshung is the Dark View Falls recreational site
x)	Any Low-lying areas prone to flooding/areas of Tidal Influence?		•	
xi)	Details of Surface water quality at intake point		•	
xii)	Any areas affected by other disasters?	•		This area is also affected by hurricanes and other extreme rain events, drought, high wind events.
2	Is the site in Critical / Over Exploited condition?		•	
3	Is the area disaster-prone? If yes; list all disaster zone categories applicable	•		Seismic events, hurricanes and other extreme rain events, drought, high wind events.
4	Describe the soil and vegetation on site			Soil is a mixture of sand and loam with volcanic ash. Forested area.
5	Is the site area and condition suitable for proposed development?	•		Restoration and environmental protection measures being implemented.
6	Describe existing pollution or degradation in the site(s)			N/A
7	Any other remark on baseline condition?		•	
Section D. Anticipated Environmental Impacts: Impacts on Land, Geology and Soils				

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
8	Will the proposed project cause the following on Land / Soil?					
i)	Impact on Surrounding Environmental Conditions including Occupation on Low lying lands/flood plains	•				
ii)	Substantial removal of Top Soil (mention area in sqm)	•				
iii)	Any degradation of land / eco-systems expected due to the project?	•				
iv)	Loss or impacts on Cultural/heritage properties	•				
v)	Does the project activity involve cutting and filling/ blasting etc?	•				
vi)	Will the project cause physical changes in the project area (e.g., changes to the topography) due to earth filling, excavation, earthwork or any other activity?	•				
vii)	Will the project involve any quarrying/ mining etc.?	•				
viii)	Will the project / any of its components contaminate or pollute the Land?	•				
Section E. Impacts on Water Environment						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
9	Will the subproject or its components cause any of the following impact on Water					

	sources (Quantity or Quality):					
i)	Will the activities have proposed at the site(s) impact water quality (surface or underground) and water resource availability and use? Will this sub-project involve the dredging of water bodies, sea, canals, etc.	•				
ii)	Impacts on Water Resources		•	High	Watershed restoration	High
iii)	Pollution of Water bodies/ground water nearby or downstream	•				
iv)	Will the project affect the river /cannel flow pattern, stream pattern or any other irrigation canal?	•				
v)	Will the project result in stagnation of water flow or pondage or weed growth	•				
Section F. Impacts on Biodiversity and Host Communities						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
10	Will the subproject or its components cause any of the following impacts on Biodiversity or the neighborhood					
i)	Will the project necessitates cutting of Trees / Loss of Vegetation?		•	High	Pruning of trees Trimming of grass to prepare sites for the planting of vetiver grass and reforestation works. Materials will be reused for check dams and silt traps.	High
ii)	Will the project result in Health & Safety Risks in the neighborhood including the release of	•				

	toxic gases, accident risks					
iii)	Potential risk of habitat fragmentation due to the clearing activities? (e.g. Hindrance to the local biodiversity like disturbing the migratory path of animals/ birds etc.)	•				
iv)	Potential Noise and Light Pollution or disturbance to surrounding habitats/communities		•	Low to Moderate	Noise disturbance will be temporary. Noise resulting from the use of chain saws and machetes may temporarily disturb habitats in the environs.	Low
v)	Potential disruption to common property, accessibility, traffic disruptions, conflicts or disruption to the local community within the subproject area?	•				

Section G. Impacts due to Storage and Wastes: Pollution and Hazards

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the subproject or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities					
i)	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?		•	Low	Small amounts of gas to be used for chainsaw but the storage of such will be away from the work sites.	Low
ii)	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding		•	Low	Tree cuttings and dust from chain saw usage. Will not be in sufficient amounts to be considered a nuisance. Branches will be reused for	Low

	wastes, muck/silt, dust); polluted liquids?				other rehabilitation work such as silt traps.	
iii)	Will the project cause or increase air pollution or odour nuisance?		•	Low	Noise and exhaust from chainsaw usage	Low
iv)	Will the project generate or increase noise levels which will impact surrounding biodiversity or communities?		•	Low	Noise nuisance will be temporary. Generated from chainsaw usage and other pruning activities.	Low
v)	Will the project generate or increase visual blight or light pollution?	•				
vi)	Will the project cause water pollution (of water bodies/ groundwater)?	•				
vii)	Will the project involve dangerous activities which may be a safety concern to workers/ host communities		•	Low to Moderate	Use of chain saw and machete may pose risk of injury. Hiking to access the site may include risk of falls and slips that may result in personal injury to the workers. Vigilance will be exercised at all times during the work day.	Low
viii)	Is there a potential for release of toxic gases or accident risks (e.g. potential fire outbreaks)	•				
12	Describe any other features of the project that could influence the ambient environment				None	
Section H. Suggested Environmental Enhancement Measures						
Sl. no	Components	Yes	No	Details		
13	Has the subproject design considered the					

i)	Energy conservation measures/ energy recovery options incorporated in subproject design		•	
ii)	Considered waste minimization or waste reuse/recycle options	•		Green waste produced is composted or reused for other restoration works such as silt traps and check dams.
iii)	Rainwater harvesting, water recycling and other water resource enhancement measures	•		Watershed restoration measures being implemented.
iv)	Considerations for extreme events, drought, flood, other natural disasters	•		Works will help in the event of droughts in the recharge of the aquifer and during extreme rainfall events to reduce surface water runoff, erosion and soil degradation.
vi)	NOC for water withdrawal from surface water source			N/A
vii)	Mining Permit (for dredging)			N/A
viii)	NOC for transportation and storage of diesel, oil and lubricants, etc.			N/A
ix)	Others (Mention)			

Section I. Land Use, Resettlement, and/or Land Acquisition

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
1	Does the project involve acquisition of private land?	•				
2	Alienation of any type of Government land including that owned by Urban Local Body?	•				
3	Clearance of encroachment from Government/ Local body Land?	•				

4	Clearance of squatters/hawkers from Government/ Local Body Land?	•				
5	Number of structures, both authorized and/or unauthorized to be acquired/ cleared/	•				
6	Number of households to be displaced?	•				
7	Village common properties to be alienated Pasture Land (acres) Acquisition / burial ground and others specify?	•				
8	Existing land uses on and around the project area (e.g., community facilities, agriculture, tourism, private property) will be affected?	•				
9	Will the project result in workers or other people moving into or having access to the area (for a long-time period and in large numbers compared to permanent residents)?	•				
10	Are financial compensation measures expected to be needed?	•				

Section J. Loss of Crops, Fruit Trees, Household Infrastructure and livelihood

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
11	Will the project result in the permanent or temporary loss of the following?					
11.1	Crops?	•				

11.2	Fruit trees? Specify with numbers	•				
11.3	Petty Shops	•				
11.4	Vegetable/Fish/Meat vending	•				
11.5	Cycle repair shop	•				
11.6	Garage	•				
11.7	Tea stalls	•				
11.8	Grazing	•				
11.9	Loss of access to forest produce	•				
	Any others - specify					

Section K. Welfare, Employment, and Gender

Sl.no	Components	Yes	No	Details
12	Is the project likely to provide local employment opportunities, including employment opportunities for women?	•		Temporary workers will be hired from the areas around the sites.
13	Is the project being planned with sufficient attention to local poverty alleviation objectives?	•		
14	Is the project being designed with sufficient local participation (including the participation of women) in the planning, design, and implementation process?	•		

Section L. Historical, Archaeological, or Cultural Heritage Sites

Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
15	Historical heritage site(s) require excavation near the same?	•				
16	Archaeological heritage site(s) require excavation near the same?	•				
17	Cultural heritage site(s) require excavation near the same?	•				
18	Graves or sacred locations require excavations near the same?	•				
Section M. Tribal Population/Indigenous People						
Sl. no	Impacts	No	Yes/ May create	Expected Risk Rating	Details	Risk Rating
19	Does this project involve acquisition of any land belonging to Tribal people?	•				
Section N. Beneficiaries						
Sl. no	Components	Approx. no.		Details		
20	Population proposed to be benefitted by the proposed project	110,418 persons		The entire population of St. Vincent and the Grenadines would benefit from the services provided when this project is completed when there is any threat of volcanic activity. (Source: Statistical Office of St Vincent and the Grenadines)		
21	No. of Females proposed to be benefitted by the proposed project	54,241 females		The entire female population. (Source: Statistical Office of St Vincent and the Grenadines)		
22	Vulnerable households /population to be benefitted	48.2 percent				

23	No. of Families to be benefitted	36,829	According to the national census 36,829 households are registered with an average of 3.0 persons per household (2012 CENSUS)
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Project Categorization and Need for Environmental and Social Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Environmental Specialist	Sharika Mandeville and Officers of the Forestry Department
	Environmental Expert in charge	Sharika Mandeville

Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Environmental Specialist	
Reviewed & accepted by	PMU	
	Environmental Specialist	

This Screening sheet must be completed for each of the proposed subproject and forwarded to the Environment and Social Specialist and in Respective PMU along with the following enclosures.

Enclosures:

1. Provide maps with the geographical location of the project;
2. An appropriately scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, and

3. Any other information to describe the project, locations and possible impact as required.
4. Land details for the project sites, location, survey numbers,
5. Extent available and required, land use classification, current use of the site,
6. Land ownership, alienation/acquisition status, as required along with a certificate giving availability of sites required for the project by the borrower

Project Categorization and Need for Standards Instruments, Oversight

Project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	
Environmental and Social Instruments Required	<input type="checkbox"/> Detailed ESIA and ESMP <input type="checkbox"/> ESA <input type="checkbox"/> RAP <input checked="" type="checkbox"/> Site-specific ESMP

<i>Status</i>	<i>Agency / Official</i>	<i>Name, Signature with Date and Seal</i>
Prepared by	Social Specialist	
	Social Expert / in – charge	DeAnna Ralph
Checked and Categorized as (low, moderate, substantial, high) by	PMU	
	Social Specialist	
Reviewed & accepted by	NPMU	
	Social Specialist	

Appendix II – Monitoring checklists (Project Environmental and Social Framework File)

**Forestry Biodiversity and Watershed –
Debris management Sub-project**

**Project Environmental and Social
Framework File**

File Contents

<i>Section A:</i>	Environmental and Social Procedure 1: <i>Weekly Environmental and Social Inspection Checklist and Occupational Health and Safety Checklist</i>
<i>Section B:</i>	Environmental and Social Procedure 2: <i>Environmental and Social Incidents/Complaints Log</i>
<i>Section C:</i>	Environmental and Social Procedure 3: <i>Corrective Action Request Procedure</i>
<i>Section D:</i>	Environmental and Social Procedure 4: <i>Worker Orientation and Toolbox Safety Talk Records</i>
<i>Section E:</i>	Environmental and Social Procedure 5: <i>Employee Information Record</i>
<i>Section F:</i>	Environmental and Social Procedure 6: <i>Monthly Employer's Social Framework Review Procedure</i>

Section A:

Project Environmental and Social Framework Inspection Weekly Checklist

(This weekly checklist when filed in the Sub-Project Environmental and Social Framework File constitutes a Register of Environmental and Social Effects).

This form is to be completed by the Forestry Department's Nominated person(s) **weekly** from the start of the works on each site. Completed forms are to be kept readily available in the Sub-Project Environmental and Social Framework File for the duration of construction works during which time they can be inspected by the Supervising Officer or representatives of the Government of St Vincent and the Grenadines.

Sub-Project Works Site: _____

Works to be conducted: _____

Recording Officer: _____

Designation of Recording Officer: _____

Date: _____

Any environmental actions identified are to be brought to the urgent attention of the appropriate personnel as soon as possible. A copy of this completed form is to be issued to the Forestry Department's Supervising Officer within two days of the date of inspection.

Environmental Issue to be considered in site inspection	YES	NO	N/A	If <u>YES</u> add an explanatory comment and mitigation measure
<p><i>Issue: Loss of soil through soil erosion</i></p> <ul style="list-style-type: none"> - Has any natural vegetation outside the work area been removed? - Are there any visible signs of soil erosion due to the work being conducted? - Are excavated areas properly maintained to prevent soil erosion? - If any sediment traps have been installed, have they become clogged and not functional? - Are any soil retention/slope stabilisation measures required or being implemented as an interim mitigation measure? 				
<p><i>Issue: Soil Contamination</i></p> <ul style="list-style-type: none"> - Are there any signs of soil that has been contaminated due to spillage (Petrochemical, cleaning products)? 				
<p><i>Issue: Pollution of water courses/bodies/source through soil erosion, entry of liquid waste into the water course/body</i></p> <ul style="list-style-type: none"> - Are there visible signs of increased sediment immediately downstream of works in any rivers, in the well or in the nearby marine environment within the sub-project works area? - Have there been any complaints from residents or third parties regarding pollution of water sources/courses/bodies? - Has any green waste from the sub-project works been disposed of into or adjacent to a water source/course/body? - Has any fuel or chemical leaked during transport to site, equipment usage on site or refuelling? - Has any solid or liquid waste entered a water source/course/body within the general sub-project area? <p><i>Issue: Prevention of negative landscape and visual impacts.</i></p>				

<ul style="list-style-type: none"> - Have any materials dumps, or waste disposal sites in use not been discussed and agreed with the Supervising Officer (and, if necessary, appropriately authorised with the Government of St Vincent)? - Are there any visible signs of scarring from sub-project works that require restoration? 				
<p><i>Issue: Management and disposal of solid and liquid construction wastes.</i></p> <ul style="list-style-type: none"> - Has any sub-project related waste been disposed of on the side of the road, in vacant land, along river embankments or in the river channel, or at any unofficial waste disposal site along the route? - Has any contaminated/hazardous material been found during the sub-project works? - Is any sub-contractor's waste being disposed of along the roadside or at an unlicensed waste disposal site along the route? - Has sub-project works' waste of any kind been dumped by the side of the road or along the river embankment? 				
<p><i>Issue: Management of noise nuisance.</i></p> <ul style="list-style-type: none"> - Have there been any noise related complaints during the last week? 				
<p><i>Issue: Dust nuisance prevention.</i></p> <ul style="list-style-type: none"> - Are there any areas adjacent to the sub-project work sites being affected adversely by dust? - Are any crops adjacent to the works covered with dust? - Have there been any dust related complaints during the last week? 				
<p><i>Issue: Air Pollution (Fumes)</i></p> <ul style="list-style-type: none"> - Are there any signs of high levels of exhaust/fumes/ malodors? - Have there been any fumes nuisance related complaints during the last week? 				
<p><i>Issue: Dealing with archaeological finds.</i></p> <ul style="list-style-type: none"> - Have any potential historic artefacts been found during sub-project works? (If so, note how these have been dealt with). 				
<p><i>Issue: Environmental Incidents and Corrective Actions.</i></p> <ul style="list-style-type: none"> - Have complaints been received from the public or other third party during the last week? (If so, how many? Attach a copy of the reports) 				

- Has any incident leading to a threat of human health or life occurred during the last week? (If so, how many? Describe severity and attach copy of incident report)				
--	--	--	--	--

Completed by:

Designation: Forestry Department's Representative

Signed

Print Name:

Date:

Designation: Client's Supervising Officer

Action completed:

Signed

Print Name:

Date:

<p>ENVIRONMENTAL INSPECTION AND SOCIAL FRAMEWORK REGISTER – ADDITIONAL COMMENTS</p> <p><i>If required, provide supporting comments relating to the specified environmental checks or on any site environmental or social framework matter worthy of note</i></p>

Continuation Sheet No. Pages:

Project Occupational Health & Safety Weekly Checklist

This form is to be completed by the Forestry Department Nominated person(s) **weekly** from the start of construction work on site. Completed forms are to be kept readily available in the Project Environmental and Social Frameworks File for the duration of construction works during which time they can be inspected by the Supervising Officer or representatives of the Government of St Vincent and the Grenadines.

Sub-Project Site: _____

Works to be conducted: _____

Recording Officer: _____

Date: _____

Item	Yes	No	Not needed/ not applicable	Comment
Fall Protection				
<ul style="list-style-type: none"> Is fall protection needed for this work site? 				
<ul style="list-style-type: none"> The harness is worn correctly and attached to secure anchorage 				
Machine Hazards				
<ul style="list-style-type: none"> Workers are trained in the use of power tools. 				
<ul style="list-style-type: none"> Workers have appropriate PPE and keep clothing away from machinery and power tools 				
<ul style="list-style-type: none"> Machinery and power tools are guarded as designed. 				
Heat Stress				
<ul style="list-style-type: none"> Is heat a major problem at this site? 				
<ul style="list-style-type: none"> Have workers been trained in preventing and recognizing heat-related illnesses? 				
<ul style="list-style-type: none"> Are workers provided with enough water and appropriate rest breaks? 				
Personal Protective Equipment (PPE)				
<ul style="list-style-type: none"> PPE is required on this site. 				
<ul style="list-style-type: none"> Hard hats supplied 				
<ul style="list-style-type: none"> Employees wear hard hats 				
<ul style="list-style-type: none"> Protective boots supplied 				
<ul style="list-style-type: none"> Employees wore protective boots 				
<ul style="list-style-type: none"> Hearing protection supplied 				

• Hearing protection worn by employees when required				
• Eye protection supplied				
• Eye protection worn by employees when required				
• Respiratory protection supplied				
• Respiratory protection training provided				
• Respiratory protection is worn by employees when required				
• Task-specific gloves supplied				
• Task-specific gloves are worn by employees when required				
Emergency Response				
• Is there an Emergency Response Plan?				
• Is there a clearly defined muster point?				
• Is there a vehicle on site to be used in emergency response?				
• Is there a person or persons on-site trained in first aid?				
• Is there a first aid kit on site?				
Health and Safety Communication				
• Was Worker Orientation done?				
• Were toolbox meetings done?				
• Was there an Incident/Accident to report?				
• Was the incident/accident reporting form done?				

Completed by:

Designation: Forestry Department's Representative

Signed

Print Name:

Date:

Designation: Client's Supervising Officer

Action completed:

Signed

Print Name:

Date:

Section B

Project Environmental Incidents/Complaints Log

This form is to be completed and maintained by the Forestry Department's Nominated person (s) **weekly** from the start of the intervention work on site. The completed log is to be kept readily available in the Project Environmental and Social Framework File for the duration of subproject works during which time it can be inspected by the Supervising Officer or representatives of the Government of St Vincent and the Grenadines:

Subproject:

Forestry Officer:

Recording Officer:

Recording Officer Designation:

Date:

Any Environmental actions identified are to be brought to the urgent attention of the appropriate personnel as soon as possible. A copy of this completed form is to be issued to the Supervising Officer as soon as possible.

Nature of incident/complaint/ correspondence (Inform Supervising Officer)	Date received/ occurred	Name/address/contact details of complainant (if relevant)	How was the complaint/incident dealt with? Date Reported to Client	Date of any relevant correspondence	Signature of Inspecting Representative and date

--	--	--	--	--	--

Completed by:

Designation: Forestry Department's Representative

Signed

Print Name:

Date:

Designation: Client's Supervising Officer

Action completed:

Signed

Print Name:

Date:

Section C

Environment Corrective Action Request Form

This form is to be completed by the VEEP ESF Team Supervising Officer to issue a request corrective action in respect of a particular environmental problem/issue that has occurred or is likely to occur. Completed forms are to be kept readily available in the Project Environmental and Social Framework File for the duration of construction works during which time they can be inspected by the Supervising Officer or representatives of the Government of St Vincent and the Grenadines.

Corrective action required and reasons	Date action to be completed by	Action taken by Forestry Department and date action completed

Completed by:

Designation: Forestry Department Representative

Signed

Print Name:

Date:

Designation: Client's Supervising Officer

Action completed:

Signed

Print Name:

Date:

**ENVIRONMENT CORRECTIVE ACTION REQUEST FORM – ADDITIONAL
COMMENTS**

*If required, provide supporting comments relating to the corrective action worthy
of note*

Section D

WORKER ORIENTATION ATTENDANCE FORM

Sub-project Site: _____

Forestry Supervising Officer: _____

Date _____

Leader / Presenter: _____

Location: _____

Workers Attending Orientation (sign-in):

Signature of Presenter: _____

This document is to be maintained in Project Environmental and Social Framework file.

TOOLBOX SAFETY TALK ATTENDANCE FORM

Sub-project Site: _____

Forestry Supervising Officer: _____

Safety Talk Topic _____

Date _____

Leader / Presenter: _____

Location: _____

Workers Attending Meeting (sign-in):

Signature of Presenter: _____

Document toolbox safety talk. Maintain this form as evidence of safety talk.

Section E

EMPLOYEE INFORMATION RECORD

Sub-project Site: _____

Supervisory Officer: _____

Age: _____

Date of Birth: _____

ID Information: _____

NIS Number: _____

Gender: _____

Address: _____

Is the employee a resident of the project area? Yes No

Level of Skills: Skilled Semi Skilled Unskilled

Type of Employment: Full – time Part – time Temporary Other

Start date of employment on the project: _____

Job description: _____

Level of training and years of experience in job hired to perform _____

End date of employment on the sub-project and reason for end of employment: _____

Recording officer: _____

Section F

Monthly Employer's Environmental and Social Framework Review Checklist

Month in Review: _____

This form is to be completed by the Employer's Nominated person(s) **monthly**. Completed forms are to be kept on file in the Project Co-ordination Unit offices. A copy should be passed to the Supervising Officer for information within 48 hours.

Subproject: _____

Recording Officer: _____

Recording Officer Designation: _____

Date: _____

The purpose of this review is to check monthly that the Project Environmental and Social Framework File is being kept up to date.

Issue to be considered in the review	Yes	No	Comments and detail of any corrective actions requested
Q - Looking at the file is there evidence that the Forestry Department is undertaking the weekly Environmental Inspections and filing the completed Inspection Checklist?			
Q – Looking at the file and the completed weekly Environmental Inspection, has the Supervising Officer signed the completed checklists?			
Q – Looking at the file is there evidence that the Forestry Department is maintaining the log of environmental incidents/complaints? (<u>It is possible that there may be very few or no complaints of this project so this form may in reality not be used. If there are no complaints at the time of review write this in the comments box.</u>)			
Q – Looking at the file is there evidence that any Corrective Action Requests (CAR) which have been issued have been signed off as completed by the originator of that CAR?			

Q – Looking at the file is there evidence that any Social Framework or Grievances have been recorded?			

<p>MONTHLY EMPLOYER'S ENVIRONMENTAL AND SOCIAL FRAMEWORK REGISTER REVIEW – ADDITIONAL COMMENTS</p> <p><i>If required, provide supporting comments relating to specific points above.</i></p>	
<p>Continuation Sheet No. Pages:</p>	

Review completed by:

Designation: Employer's Representative

Signed

Print Name:

Date:

Designation: Forestry Department Representative

Signed

Print Name:

Date:

Appendix III - Code of Conduct for Forestry Personnel (ES) Form

This form should be signed by all workers within the first five days of commencement of contract, the form shall be within in the contract of each worker.

This document is also included as part of the Request for Bids Small Works Standard Procurement Document.

Note to the Employer:

The following minimum requirements shall not be modified. The Employer may add additional requirements to address identified issues, informed by relevant environmental and social assessment.

The types of issues identified could include risks associated with: labor influx, spread of communicable diseases, and Sexual Exploitation and Abuse (SEA), Sexual Harassment (SH) etc.

Delete this Box prior to issuance of the bidding documents.

Note to the Bidder:

The minimum content of the Code of Conduct form as set out by the Employer shall not be substantially modified. However, the Bidder may add requirements as appropriate, including to take into account Contract-specific issues/risks.

The Bidder shall initial and submit the Code of Conduct form as part of its bid.

CODE OF CONDUCT FOR FORESTRY DEPARTMENT'S PERSONNEL

We are the Forestry Department, . We are the agency responsible for for [*enter description of the Works*]. These Works will be carried out at [*enter the Site and other locations where the Works will be carried out*]. Our arrangement requires us to implement measures to address environmental and social risks related to the Works, including the risks of sexual exploitation, sexual abuse and sexual harassment.

This Code of Conduct is part of our measures to deal with environmental and social risks related to the Works. It applies to all our staff, laborers and other employees at the Works Site or other places where the Works are being carried out. It also applies to the personnel of each sub-contractor and any other personnel assisting us in the execution of the Works. All such persons are referred to as “**Forestry Department’s Personnel**” and are subject to this Code of Conduct.

This Code of Conduct identifies the behavior that we require from all Forestry Department Personnel.

Our workplace is an environment where unsafe, offensive, abusive or violent behavior will not be tolerated and where all persons should feel comfortable raising issues or concerns without fear of retaliation.

REQUIRED CONDUCT

Forestry Department's Personnel shall:

1. carry out their duties competently and diligently;
2. comply with this Code of Conduct and all applicable laws, regulations and other requirements, including requirements to protect the health, safety and well-being of other Forestry Department employees, Personnel and any other person;
3. maintain a safe working environment including by:
 - a. ensuring that workplaces, machinery, equipment and processes under each person's control are safe and without risk to health;
 - b. wearing required personal protective equipment;
 - c. using appropriate measures relating to chemical, physical and biological substances and agents; and
 - d. following applicable emergency operating procedures.
4. report work situations that he/she believes are not safe or healthy and remove himself/herself from a work situation which he/she reasonably believes presents an imminent and serious danger to their life or health;
5. treat other people with respect, and not discriminate against specific groups such as women, people with disabilities, migrant workers or children;
6. not engage in Sexual Harassment, which means unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature with other Employer's Personnel;
7. not engage in Sexual Exploitation, which means any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;
8. not engage in Sexual Abuse, which means the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;
9. not engage in any form of sexual activity with individuals under the age of 18, except in case of pre-existing marriage;
10. complete relevant training courses that will be provided related to the environmental and social aspects of the Contract, including on health and safety matters, and Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH);
11. report violations of this Code of Conduct; and

12. not retaliate against any person who reports violations of this Code of Conduct, whether to us or the Employer, or who makes use of the grievance mechanism for Employer's Personnel or the project's Grievance Redress Mechanism.

RAISING CONCERNS

If any person observes behavior that he/she believes may represent a violation of this Code of Conduct, or that otherwise concerns him/her, he/she should raise the issue promptly. This can be done in either of the following ways:

1. Contact [*enter name of the Forestry Department's Social Expert with relevant experience in handling gender-based violence, or if such person is not required under the Contract, another individual designated by the Contractor to handle these matters*] in writing at this address [] or by telephone at [] or in person at []; or
- 2.

The person's identity will be kept confidential, unless reporting of allegations is mandated by the country law. Anonymous complaints or allegations may also be submitted and will be given all due and appropriate consideration. We take seriously all reports of possible misconduct and will investigate and take appropriate action. We will provide warm referrals to service providers that may help support the person who experienced the alleged incident, as appropriate.

There will be no retaliation against any person who raises a concern in good faith about any behavior prohibited by this Code of Conduct. Such retaliation would be a violation of this Code of Conduct.

CONSEQUENCES OF VIOLATING THE CODE OF CONDUCT

Any violation of this Code of Conduct by Forestry Department's Personnel may result in serious consequences, up to and including termination and possible referral to legal authorities.

FOR FORESTRY DEPARTMENT'S PERSONNEL:

I have received a copy of this Code of Conduct written in a language that I comprehend. I understand that if I have any questions about this Code of Conduct, I can contact [*enter name of Forestry Department's contact person with relevant experience*] requesting an explanation.

Name of Forestry Department's Personnel: [insert name]

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Forestry Department:

Signature: _____

Date: (day month year): _____

ATTACHMENT 1: Behaviors constituting Sexual Exploitation and Abuse (SEA) and behaviors constituting Sexual Harassment (SH)

ATTACHMENT 1 TO THE CODE OF CONDUCT FORM

BEHAVIORS CONSTITUTING SEXUAL EXPLOITATION AND ABUSE (SEA) AND BEHAVIORS CONSTITUTING SEXUAL HARASSMENT (SH)

The following non-exhaustive list is intended to illustrate types of prohibited behaviors:

(1) **Examples of sexual exploitation and abuse** include, but are not limited to:

- A Forestry Department's Personnel tells a member of the community that he/she can get them jobs related to the work site (e.g. cooking and cleaning) in exchange for sex.
- A Forestry Department's Personnel that is connecting electricity input to households says that he can connect women headed households to the grid in exchange for sex.
- A Forestry Department's Personnel rapes, or otherwise sexually assaults a member of the community.
- A Forestry Department's Personnel denies a person access to the Site unless he/she performs a sexual favor.
- A Forestry Department's Personnel tells a person applying for employment under the Contract that he/she will only hire him/her if he/she has sex with him/her.

(2) **Examples of sexual harassment in a work context**

- Forestry Department's Personnel comment on the appearance of another Contractor's Personnel (either positive or negative) and sexual desirability.
- When a Forestry Department's Personnel complains about comments made by another Contractor's Personnel on their appearance, the other Contractor's Personnel comment that he/she is "asking for it" because of how he/she dresses.
- Unwelcome touching of a Forestry Department's or Employer's Personnel by another Contractor's Personnel.
- A Forestry Department's Personnel tells another Contractor's Personnel that he/she will get him/her a salary raise, or promotion if he/she sends him/her naked photographs of himself/herself.

Appendix IV - VEEP Grievance Registration Form

Grievance No.: _____

REGISTRATION OF GRIEVANCE

Please use capitals:

Name: _____

Contact No: _____

Address: _____

E-mail Address: _____

Gender: _____

NIS Number: _____

Age Group: _____

National ID No: _____

(5-19) (20-39) (40-59) (60 +)

Please note that personal information is optional. Refusal to provide or unavailability of such information cannot hinder the registration of a grievance or in any way prejudice an individual or their grievance.

Name of Project Site: _____

As per the ESMF of the Project, Grievance Redressal, I register my grievance as detailed:

Details of Grievance

(a) Outline reasons why and how you are affected by the project. (overleaf if necessary)

(b) If land or other properties are being affected e.g. (agriculture) include copies of relevant documentation you have, to support your claim.

List documents:

A: _____

B: _____

C: _____

D: _____

E: _____

F: _____

Undertaking:

I hereby certify that the statements made in my grievance and the documentation enclosed are accurate and complete to the best of my knowledge. If at any time, any part of the grievance or the documentation is found to be false, I will be liable for any legal action that the Government of St. Vincent and the Grenadines may deem necessary.

Date: _____

Signature of Aggrieved Person: _____

Name of Recording Officer:

Signature: _____

(Please Print)

(Continue overleaf if necessary)

Appendix V– Incident / Accident Reporting Form

B1: Incident / Accident Details			
Project Site:			
Date of Incident / Accident:	Time:	Date Reported:	Time Reported:
Reported by:	Reported to:	Notification Type: Email/phone call/media notice/other	
Full Name of Supervising Officer:			
B2: Type of incident / Accident (please check all that apply)			
Fatality <input type="checkbox"/> Lost Time Injury <input type="checkbox"/> Displacement Without Due Process <input type="checkbox"/> Acts of Violence/Protest <input type="checkbox"/> Disease Outbreaks <input type="checkbox"/> Forced Labor <input type="checkbox"/> Unexpected Impacts on heritage resources <input type="checkbox"/> Unexpected impacts on biodiversity resources <input type="checkbox"/>			
Environmental pollution incident <input type="checkbox"/> Environmental Hazard incident <input type="checkbox"/> Other <input type="checkbox"/>			
B3: Description/Narrative of Incident / Accident			
<p><i>I. Details of the Incident / Accident</i></p>			
<p><i>II. What were the conditions or circumstances under which the incident occurred (if known)?</i></p>			
<p><i>III. Are the basic facts of the incident clear, or are there conflicting versions? What are those versions?</i></p>			

IV. Is the incident still ongoing, or is it contained?

V. Have any relevant authorities been informed? Who was informed?

B4: Actions taken to contain the incident / Accident

Short Description of Action	Responsible Party	Expected Date	Sta

Have the works been suspended? Yes ; No ;

Please attach a copy of the instruction suspending the works.

B5: What support has been provided to affected people

B6: Injury Information

Injured Employee

Name:	Job Title:
--------------	-------------------

Job at time of Injury:

Type of Employment

Full – time Part – time Temporary Other

Length of time employed with the Company:
Length of time in current position at the time of the incident:
Description and severity of injury:
Location at the time of the incident/accident
Date and time of incident / Accident:

Appendix VI - Outline of Chance Finds Procedures

Purpose

During sub-project implementation, there is the possibility that previously unknown cultural heritage items may be discovered. This Chance Find Procedure is intended to manage impacts to unknown cultural heritage items. The procedure should be implemented in collaboration with the relevant national authority responsible for cultural heritage. It is important that all sub-project staff and Agency executing the works be aware of the potential to discover chance finds and the procedures outlined here. Prior to start of the sub-project works, a relevant contact person at the national authority responsible for cultural heritage will be identified who can be contacted in case of chance finds.

Objectives

- Define the steps that must be followed to manage the discovery of previously unknown cultural heritage, including the preservation and appropriate treatment of these finds, while also minimizing the potential disruption to the sub-project schedule.
- Enable compliance with relevant national laws and regulations along with other requirements that relate to the discovery of heritage items.

Scope

The Chance Find Procedures (CFP) for identification, protection from theft, and treatment of discovered artifacts shall be included in the bidding documents and followed by the Agency executing the works, project supervisor, and all responsible local authorities.

Steps

If a chance find is discovered the following steps should be undertaken by the agency executing the works:

1. Issue a STOP WORK order in the vicinity of the find.
2. Inform the supervision engineer.
3. Inform the PIU of the country where the find was encountered.
4. Install temporary site protection measures, such as warning tape of avoidance signs, to establish a restricted area around the Chance Find.

5. The Site Supervisor will record details (location and description) of the find and inform the identified national authority responsible for cultural heritage
6. Inform sub-project personnel about the Chance Find and restricted area.
7. The PIU will Invite the identified contact person at the national authority responsible for cultural heritage to document the Chance Find, perform a preliminary evaluation to determine whether the Chance Find is cultural heritage and if so, whether it is an isolate or part of a larger site or feature.
8. Determine with the identified personnel when civil works can resume in the vicinity of the find.
9. Artifacts should be left in place if possible; if materials are collected, they will be placed in bags and labelled by an archaeologist and transported to the relevant agency.
Artifacts are not allowed to be taken by any sub-project personnel as personal possession.
10. The find should be documented via the use of photography, notes, GPS coordinates and maps, as appropriate.
11. If the Chance Find proves to be an isolated find or not of cultural heritage, the archaeologist appointed by the national authority for cultural heritage will authorize the removal of the site protection measures and the resumption of activity in the area.
12. If, however, the archaeologist appointed by the national authority for cultural heritage confirms the Chance Find as a cultural heritage of significance, the relevant national authority will be informed within three days of that determination and initiate discussions about treatment.
13. Prepare and retain archaeological monitoring records, including initial reports, whether they are later confirmed or not. The record shall include coordinates of all observations to be retained by the sub-project.
14. Develop and implement treatment plans for confirmed finds using the services of qualified cultural heritage experts.
15. If a Chance Find is a verified cultural heritage site, a final Chance Find report shall be prepared once treatment has been completed.
16. While investigation is on-going, there will be coordination with sub-project personnel aimed at keeping them informed about the status and schedule of the investigations into the chance find. Sub-project personnel will also be informed as timing of the resumption of sub-project activities in the vicinity of the find.