



**REPUBLIC OF SIERRA LEONE
MINISTRY OF FINANCE**

**Sierra Leone Economic Diversification
Project (SLEDP)**

**ENHANCING RIVER NO. 2 BEACH
EXPERIENCE**

**ENVIRONMENTAL AND SOCIAL IMPACT
ASSESSMENT (ESIA)**

FINAL REPORT

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ACRONYMS AND ABBREVIATIONS

CHC	Community Health Centers
CHP	Community Health Posts
DCP	Decommissioning and Site Closure Plan
DHMT	District Health Management Team
EIS	Environmental Impact Statements
EPA	Environmental Protection Agency
ESIA	Environmental and Social Impact Assessment
ESMP	Environmental and Social Management Plan
GoSL	Government of Sierra Leone
GRC	Grievance Redress Committee
LEQ	Ambient Noise Levels
NTB	National Tourist Board
O&M	Operations and Maintenance
OPs	Operational Policies
PAPs	Project Affected Persons
PCU	Project Coordinating Unit
PM	Particulate Matter
PPP	Public Private Partnership
RO	Reverse Osmosis
SLBC	Sierra Leone Broadcasting Corporation
SLEDP	Sierra Leone Economic Diversification Project
SLS	Sierra Leone Standard
SMEDA	Small and Medium Scale Enterprises Development Agency
SMMEs	Small, Medium and Micro-enterprises
WAPNP	Western Area Peninsular National Park
WBG	World Bank Group
WHO	World Health Organization

NON-TECHNICAL EXECUTIVE SUMMARY

Introduction

The Government of Sierra Leone (GoSL) with assistance from the World Bank Group (WBG) is implementing the Sierra Leone Economic Diversification Project (SLEDP) to improve the tourism business environment, enhance market access and improve tourism products and services. The project aims to increase investment and entrepreneurship in non-mining productive sectors, including tourism. The proposed “Enhancing River No. 2 Beach experience” project aims at improving and enhancing the experience of River No. 2 Beach by providing improved access and signage, new complementary products (snorkelling and forest nature trails), improved facilities (vendors’ outlets, toilets, showers), water, electricity and waste management.

This project, which is one of six similar projects at different locations across Sierra Leone, is being developed as part of the SLEDP.

Objectives

The primary objective of this Environmental and Social Impact Assessment report is to identify key environmental and social issues that can affect project viability, sustainability, and community safety/health and to provide appropriate mitigation and management interventions for identified adverse impacts.

Legal and Institutional Framework

The relevant legal and institutional frameworks include:

- The Constitution of Sierra Leone, 1991
- National Tourism Policy, 2017
- The National Environmental Policy, 1994
- The National Lands Policy, 2015
- The National Water and Sanitation Policy, 2010
- National Biodiversity Strategic Action Plan 2017
- The National Action Plan on Gender Based Violence, 2012 – 2016
- The Sierra Leone National Action Plan 2016 – 2018
- Environment Protection Agency Act, 2008 and the EPA (Amendment) Act, 2010
- Environment Protection Agency (Environmental Impact Assessment License) Regulations 2010
- National Protected Area Authority and Conservation Trust Fund Act, 2012
- The Forestry Act, 1988
- Forestry Regulations, 1990
- Wildlife Conservation Amendment Act, 1990
- National Disaster Management Agency Act, 2020
- Sierra Leone Water Company Act, 2017
- The Road Transport Authority Act (1996) (Amended to the Roads Safety Authority Act, 2016)
- The Road Maintenance Fund Administration Act, 2010
- Employers and Employed Act, 1960
- Factories Act, 1974

- The Development of Tourism Act 1990
- Sierra Leone Local Content Agency Act, 2016
- Sierra Leone Small and Medium Enterprises Development Agency Act, 2016
- Public Private Partnership Act, 2014
- The Finance Act, 2016
- Local Government (Amendment) Act, 2017;
- The Local Government Act, 2004
- Public Health Amendment Act, 2014
- Sierra Leone Health Service Commission Act, 2011
- Persons with Disability Act, 2011
- National HIV and AIDS Commission Act, 2011
- National Security and Central Intelligence Act, 2002
- Sexual Offences Act, 2012
- The Domestic Violence Act, 2007

Environmental and Social Baseline Conditions

The Western Area Rural District consists of hills and mountains in the highlands that rise steeply to heights of between 1,000 and 1,500 m above mean sea level with a tropical monsoon climate which is wetter than the more typical West African tropical wet and dry climate.

The vegetation is at various stages of regrowth from abandoned farmbrush to secondary forest with trees up to 10m tall and shrubby or suffrutescent weeds that develops into a thicket. Typical thicket species are *Lantana camara*, *Cissus afzelli*, *Manniophytum fulvum*, *Abrus precatorius*, *Smilax krausiana*, *Dioscorea bulbifera*, *Clematis grandiflora*, *Adenia lobate* and *Scleria bovinii*. Eventually, pioneer secondary forest trees such as *Dichrostachys glomerata*, *Harungana madagascariensis*, *Nauclea latifolia*, *Alchornea cordifolia* and *Trema guineensis* replace the farmbrush and thicket. *Elaeis guineensis* is a common tree-crop. There is no species of conservation concern as all are listed as Least Concern (LC) species on the IUCN Red List.

The area provides important habitat for some 400 bird and 50 mammal species, including critically endangered species such as the Western Chimpanzee (*Pan troglodytes verus*), the endangered Jentink's Duiker (*Cephalophus jentinki*) also known as gidi-gidi in Krio and the vulnerable iconic African bird *Picathartes gymnocephalis*. Other animals in the area are monkeys, snakes, butterflies and tropical fish. Deforestation within the WAPNP and urbanization of the land surrounding it shrinks the habitat of these species, increases the potential for human-wildlife conflict, and makes it easier for poachers to access the Park. In the northern sections of the park, poachers frequently blanket the forest floor with snares, trapping and killing everything that falls into them.

The district is the second most literate in the country with only 29.2% of the population without any form of education. The main economic activities in the area are agriculture, fishing, trading, stone and sand mining. A few of the population have salaried work, as well as unskilled and skilled work such as dressmaking, carpentry, masonry etc.

Potential Impacts and Mitigation

Some beneficial impacts identified are creation of employment opportunities for skilled, semi-skilled and unskilled labour at the construction stage and as tour guides, waiters, parking attendants etc. at the operation stage. There will be increased commerce and other economic activities directly and indirectly through the supply of goods and the necessary services for tourist activities resulting in increased revenue for SMMEs such as restaurants, supermarkets, hotels/guest houses, art markets, car rentals, hairdressing, sewing, mechanic shops. Tourism facilities are expected to stimulate improvement in social services such as electricity, and water supply as well as public services like healthcare and education. Cultural empowerment and exchange will result from tourists meeting locals and learning about their cultures while locals also enhance their language and social skills and cultural knowledge of other places. Also, the appreciation of nature by tourists will enhance conservation awareness in the local community.

The project will have some adverse impacts and they include:

Occupational health and safety risks

Exposure of workforce to Workplace mechanical hazards e.g. crushing, impact, shearing, stabbing, trapping, entanglement, cutting/severing etc., non-mechanical hazards e.g., vibration, noise, radiations, dust, fumes, lighting, electricity, hazardous substances, extreme temperature, ergonomics, etc. and potential infection and spread of COVID-19, HIV/AIDS etc. Occupational health and safety risks are localised, small scale and short term. However, they are highly sensitive because they impact human lives and could lead to mortality and long-term indisposition of victims hence rated major in significance.

Poor labour working conditions

Absence of employment contracts, discrimination, lack of proper welfare facilities such as toilets, changing rooms, clean drinking water, and shaded areas for resting during breaks, restriction of rights such as freedom of association and speech, expression of grievances and other poor conditions of work are likely to be created. The impact is however, localised and short term and highly sensitive since subjecting employees to poor conditions of service or work are against the Sierra Leone Employers and Employed Act, 1960. Hence this impact is moderately significant.

Soil degradation

Clearing of project site vegetation as part of land preparation, and excavation for drains, lighting cables and foundation of structures such as public toilet and shower blocks would disturb the soil and lead to soil erosion. Considering the undulating nature of the project area's topography, transportation of the loose soil by runoff especially in the rainy season and will create gullies that are unsightly. Also, oil spillages and improperly disposed waste oils/lubricants from the maintenance of construction equipment and vehicles could contaminate soils. These could affect flora and destroy soil fauna such as earthworms and their habitats. The impact is localized, persistent and of average severity hence it is considered moderate.

Air Pollution

Dust will be generated from clearing and preparation of land for construction of access roads and other project facilities, transport of uncovered materials such as sand, gravels, and excavated spoil as well as speeding on untarred roads. This coupled with emission of vehicular exhaust fumes will adversely affect air quality in project community, and to an extent neighbouring communities, and contribute to respiratory diseases in these areas. However, for access roads of just 500m, this impact is expected to be localized, temporary and of average intensity making the impact of moderate significance.

Water Pollution

Sediment from land preparation, oil waste from equipment and vehicle maintenance, wastewater from washing of construction vehicles and domestic waste from construction workers and food vendors could be transported into the sea, which is the nearest water body (about 50m), by runoff and reduce the quality of water. Sediments could increase turbidity of the water and make it unpleasant for swimming. Oil wastes could poison fishes and other aquatic organisms and domestic wastes such as plastics entering the sea could also smother marine organisms. The impact is local in extent, temporary in duration, average in intensity hence considered moderate in significance.

Noise and Vibration Nuisance

Noise from engines of construction equipment and haulage vehicles, tooting of horns will be a nuisance to residents nearby and could lead to hearing impairment in workers in very close proximity. Vibrations from equipment such as poker vibrators and compactors could cause musculo-skeletal disorders in operators. This impact is temporary and localized, and average in intensity as it could cause discomfort and loss of hearing ability. It is therefore considered to be of moderate significance.

At the operations phase, sources of noise include vehicular engines, generators and other noise-generating equipment, music, PA systems, shouting and chatter by tourists. Noise levels could go high depending on the occasion and the number of revellers at a particular time. Also, noise could travel beyond the usual receptors (nearby residences) especially in the late evening, when sound travels farther. This impact is localised, intermittent and weak in intensity hence classified as minor in significance.

Waste generation and disposal

Land preparation activities like vegetation clearance, earthworks like digging of trenches for drains and civil works will generate vegetative waste, excavated spoil, construction debris, pieces of steel/metal, packaging materials, plastic pieces, domestic waste etc. Liquid wastes expected to be generated include wastes from washing of construction equipment and vehicles, worker washrooms and canteen. Also, hazardous wastes including waste lubricants/oils, leftover paints, thinners etc. will be generated. If not properly managed, wastes could be washed off into and clog drains, decomposing organic waste like leftover food could produce foul smell/odour, vermin, and facilitate the outbreak of sanitary related diseases e.g. cholera by creating breeding grounds for disease-causing vectors such as houseflies. Wastes entering aquatic environments e.g. lubricants and plastics could poison and smother fishes and other aquatic organisms. The impact is local, temporary and of a high intensity hence considered major in significance.

At the operations phase, solid waste including general waste i.e. plastic and paper packaging, cans, leftover food etc. and electronic waste such as non-functional components of solar system i.e. inverters, batteries, and PV modules will be generated. Also, liquid waste will be generated from washrooms, kitchens etc. However, the impact is moderate.

Community safety concerns

Community safety concerns include traffic-related accidents in project community involving trucks hauling materials to the project site or carting waste from the site, exposure of locals to hazards including trip and falls into trenches for drains and excavations, impact from falling objects and moving vehicles/equipment, cuts and bruises from sharp objects littering project site and fire outbreaks from electrical faults and negligence of workers, during activities such as welding. These concerns are localised and short term. However, due to its potential to cause fatalities or long-term injuries, the impact intensity is rated average and the impact considered moderately significant.

At the operations phase, increase in vehicular and human traffic on the roads in the project area, especially the Peninsular highway, is likely to lead to cases of road accidents. Such accidents can cause injuries, fatalities, loss of property and/or traffic disruptions along the routes. Also, inexperienced swimmers could be exposed to drowning risks especially if there are no or inadequate guides/guards. Also, fire outbreaks resulting from faulty electrical equipment or improper wiring of facility could spread to nearby homes (approximately 50m) and cause injuries and loss of property or lives. Community safety concerns are largely localised making management possible, intermittent, and strong in intensity as it can lead to loss of property and lives. It is therefore considered moderate in significance.

Gender based violence

Workers with relatively high incomes will be working on the various sites. The site workers can lure young boys and girls, hawkers, food vendors, other petty traders who supply them food and other services and defile or rape them. Workers may also abuse themselves and/or supervisors. They can also do same to their wives, partners, children, hawkers, petty traders and food vendors physically or verbally over misunderstanding over prices of goods and services and other issues.

On site, managers and supervisors may solicit for sexual favours in exchange for employment opportunities, during negotiations for pay increment and improved conditions of service or in the assignment of tasks on site. Women may also be denied employment opportunities and /or their services may be undervalued on the basis of cultural norms.

The incidence of rape, defilement and other forms of Gender Based Violence is expected to be temporary, localised i.e. affecting mostly persons within the project area, and average in intensity as it could lead to injury, disability, or in extreme cases, death. However, since there are national laws in place to protect survivors, punish perpetrators and deter persons from engaging in these illegal activities, this impact is rated moderate in significance.

At the operations phase, tourists will come from neighbouring communities, other parts of the country and even outside the country into the project area. Interactions between the community especially women and tourists may lead to potential safety issues. If not properly managed, the influx of tourists could have a negative impact in the project area, especially in the context of high prevalence and social acceptability of violence against women and girls.

Women are likely to face discrimination and found in lower-paid, unskilled jobs. As poverty and unemployment is pervasive, they are more likely to experience poor working conditions, inequality of opportunity and treatment, violence, exploitation, stress and sexual harassment. Tourists may even get away with sexual harassment of female workers like waitresses and cleaners as the customer is always considered right.

Tourists who are normally outside their sphere of social control put up inappropriate behaviour such as sexual harassment of women and girls and illicit sexual relations with minors from the local community. The influx of tourists may increase the demand for sex work, the risk for trafficking of women for the purposes of sex work. There is also the risk of teenage pregnancy and forced marriages.

Also, employment of females may also cause shifts in power dynamics within households and between community members. This could lead to male jealousy and spousal violence.

This impact is localised, long-term and strong in intensity, considering that responsible bodies such as the Police Family Support Unit is inadequately resourced and lacks the capacity to offer the required GBV issues. The impact is therefore considered moderate in significance.

Public health issues

Improper waste management may allow growth of vectors of diseases such as houseflies and mosquitoes and lead to outbreak of diseases e.g. cholera, dysentery and malaria within the project community. Dust emissions from earthworks, trenching and excavation and fumes from vehicles and equipment operation could cause respiratory infections and minor throat and eye irritations in locals. Also, the presence of workers, increase in disposable cash and worker-community interactions could favour transmission of STDs and COVID-19. This impact could be regional as migrant workers may carry diseases both into or out of the project area and increase the disease prevalence in the receiving community. It is temporal in duration yet average in intensity as it could lead to extended morbidity or even death. The impact is therefore rated moderate in significance.

At the operations phase, the density of tourist visits increases interactions and the likelihood of disease transmission from one person to another e.g. COVID-19. The presence of tourists will also drive an increase in sex work and the associated sexually transmitted infections like HIV/AIDS. The impact here is rated major in significance.

Security concerns

Construction works can be associated with theft and pilfering of construction materials normally from site workers and the general public. Site workers can also steal from private properties within the immediate project area. There may also be confrontations arising out of sexual assault, accidents and destruction of property by workforce, equipment or vehicles. This impact is localized, average in intensity but temporary hence considered moderate.

Tourists could be attacked by unscrupulous persons and robbed of their money and valuables. Incidents of theft, burglary and even armed robbery are expected to increase. Unsuspecting females i.e. locals and tourists could be attacked and raped especially in the night, and along deserted paths or in deserted areas. Cases of fraud could increase as tourists could be tricked into paying for goods

and services that may never be offered. Economic inequality could lead to resentment and intolerance by locals which may result in confrontations. Violent behaviour on the part of tourists and abuse could also result in fights or clashes with locals. This impact is long-term, localised and average in intensity hence classified as moderate in significance.

Impact on structures/ properties and livelihoods

The implementation of the project will not lead to the destruction of any residential or permanent structure. However, a few temporary structures such as tables of traders along the access road may be temporarily moved to make way for the road upgrade. Also, the project activities may impact on livelihoods of a few locals making a living out of the beach facility. This impact is localized, temporary and of weak intensity making the impact minor in significance.

Destruction of vegetation and displacement of fauna

Land preparation activities will lead to the destruction of some common vegetation, mostly shrubs and grasses, and a few trees. Habitats of common soil organisms such as earthworms will also be destroyed. However, the project site has existing facilities with sparse vegetation and a little fauna, especially in the dry season. The common plant species, *Dichrostachys glomerata*, *Harungana madagascariensis*, *Nauclea latifolia*, *Alchornea cordifolia*, *Trema guineensis* and *Elaeis guineensis*, are all not of conservation concern as per the IUCN Red List. This impact is localised, short term and small scale as only a few common trees will be lost. It is therefore rated minor in significance or severity.

Clearing of vegetation will lead to loss of habitats for fauna including reptiles (snakes and lizards), ants, amphibians (frogs), earthworms etc. However, the sparse nature of vegetation means little fauna will be affected making impact weak in intensity. It will be localized and temporary hence classified as minor in significance.

Impact on social and cultural structures

Values associated with traditional life include songs, crafts, spiritual beliefs, oral history, traditional languages, innovations and practices of the project community. These values could be affected by the presence of migrant workers who may not understand and have no regard for them. This has the potential of eroding distinct values that form part of the identity of locals. This impact is temporary, localised, average in intensity as it could lead to social/cultural decadence. However, the project is expected to employ mostly local labour especially for unskilled jobs making the effect of cultural dilution minimal. The impact is therefore rated minor in significance.

At the operations phase, pre-tourist culture is likely to be affected by the project implementation. Traditional values and practices are likely to be altered as tourists may not understand and have no regard for them. Social problems like drug abuse, prostitution, and gambling are expected.

Also, demand for accommodation, entertainment, food and beverages, transportation services may increase the cost of living making rent, food etc. making it unaffordable for locals and driving them into deeper poverty. Increased traffic and tourist activities could hinder the daily life of locals. The impact is localised, long-term or permanent, and strong in intensity as it affects values which are the foundation on which societies are built. However, there is the opportunity for cultural exchange where

tourists get to learn and experience local culture hence the impact is considered moderate in significance.

Impact on cultural heritage resources

Cultural heritage resources such as shrines, cemeteries, sacred groves, rivers and artefacts form part of the spiritual and cultural fabric of most host communities and any damage to them is considered a desecration of its sacredness. Construction activities such as vegetation and land clearance and excavation pose the most significant risk to cultural heritage resources. However, there are no known cultural heritage resources within the project area. Also, in undertaking construction activities, cultural heritage resources or archaeological material could be encountered or chanced upon. In chance find situations, a chance find procedure (**Annex 4**) will be followed. This impact is local, temporary and average in intensity hence it is rated minor in significance.

Adverse impacts of the proposed project on the environment will generally be moderate as the key project activities, upgrade and construction, will take place mostly within existing facilities. The table below provides a summary of mitigation measures for identified adverse impacts during both construction and operation phases of the project.

World Bank OP/BP	Potential Impact	Construction Phase Mitigation	Operation Phase Mitigation
OP/BP 4.01 Environmental Assessment	Occupational health and safety	<ul style="list-style-type: none"> • Good housekeeping around work area must be ensured to prevent slips, trips & falls. • Only trained and competent workers should be allowed to carry out work, and must be well briefed on safe working procedures. • Mandatory and basic PPE must be worn. • Have accident and incident reporting form available to record accidents and near-misses • Provide standard safety signage and lighting at suitable locations • Fence and/or barricade around trenches and excavations • Provide alternative safe routes for pedestrians in case their normal routes become unsafe due to ongoing work • Provide qualified first aiders and ensure availability of a well-stocked first aid box on construction site • Conduct regular toolbox meetings • Properly segregate pedestrians and machinery at construction sites 	<ul style="list-style-type: none"> • Put in place fire prevention and emergency response measures • Ensure disease prevention and COVID-19 control measures are in place • Provide measures to ensure security of persons and property • Keep facility clean and free of obstructions at all times to prevent injury from falls, trip and slips. • Ensure workers have the required competence to execute assigned tasks.
	Poor labour working conditions	<ul style="list-style-type: none"> • Provide all workers with signed contracts that are consistent with national labour laws • Provide welfare facilities such as potable drinking water, shades, restrooms etc. for workers. 	<ul style="list-style-type: none"> • Provide all workers with signed contracts that are consistent with national labour laws • Provide welfare facilities such as potable drinking water, shades, restrooms etc. for workers.

World Bank OP/BP	Potential Impact	Construction Phase Mitigation	Operation Phase Mitigation
		<ul style="list-style-type: none"> Establish labour grievance management mechanism Ensure workers sign Code of Conduct (CoC) 	<ul style="list-style-type: none"> Ensure that only competent workers are assigned tasks and provide training where necessary
	Destruction of vegetation and displacement of fauna	<ul style="list-style-type: none"> Clear only area required Clear only area required for the project Stray animals that are observed at or around project sites should be given safe passage to nearby bush and not killed. Hunting and or killing of wildlife/animals in bushes around project site by construction/other workers should be prohibited and made punishable. 	<ul style="list-style-type: none"> N/A
	Soil degradation	<ul style="list-style-type: none"> Manage waste and sediments properly to prevent it from entering and polluting nearby waterbodies. Avoiding washing of vehicles, machinery, equipment near water bodies. Treatment of effluents and wastewater from construction site before discharging into water bodies Avoid seepage of oil and other hazardous waste which could contaminate ground water Training of workers on water pollution preventive measures 	<ul style="list-style-type: none"> N/A
	Air Pollution	<ul style="list-style-type: none"> Dust control measures including regular dousing of ground/roads, provision of nose covers, speed limit restrictions e.g., 20km/hr etc. Discourage idling of engines to minimise emission of vehicular fumes 	<ul style="list-style-type: none"> Discourage idling of engines to minimise emission of vehicular fumes
	Water Pollution	<ul style="list-style-type: none"> Manage waste and sediments properly to prevent it from entering and polluting nearby waterbodies. Avoiding washing of vehicles, machinery, equipment near water bodies. Treatment of effluents and wastewater from construction site before discharging into water bodies Avoid seepage of oil and other hazardous waste which could contaminate ground water Training of workers on water pollution preventive measures 	<ul style="list-style-type: none"> Manage waste properly to prevent it from entering and polluting nearby waterbodies.
	Noise and Vibration Nuisance	<ul style="list-style-type: none"> Unnecessary tooting of horn by drivers must be discouraged. Provide silencers on or properly house all noise generating equipment such as generators. 	<ul style="list-style-type: none"> Discourage indiscriminate honking by drivers. Keep music and noise from PA systems low, especially in the evening.

World Bank OP/BP	Potential Impact	Construction Phase Mitigation	Operation Phase Mitigation
		<ul style="list-style-type: none"> • Regularly service construction machinery, equipment, and vehicles to reduce noise generation • Provide workers with ear muffs/plugs. 	<ul style="list-style-type: none"> • Provide silencers on or properly house all noise generating equipment such as generators.
	Waste generation and disposal	<ul style="list-style-type: none"> • Waste bins must be provided and well labelled for waste segregation and disposal. • Only licensed waste management companies must be engaged to collect and dispose of waste collected at approved dumping sites. • Regular toolbox talk on waste management must be provided to operatives/workers at the facility. • Have SOPs for managing hazardous and non-hazardous waste. 	<ul style="list-style-type: none"> • Waste bins must be provided and well labelled for waste segregation and disposal. • Only licensed waste management companies must be engaged to collect and dispose of waste collected. • Electronic waste like inverters, PV panels and batteries should be stored properly to prevent leakage of fluids e.g. battery acid and should be disposed using licensed companies • Liquid waste should be treated before discharged into the environment • Have SOPs for managing hazardous and non-hazardous waste. •
	Community safety concerns	<ul style="list-style-type: none"> • Trained flagmen (to slow down traffic) or parking attendants must be used to ensure safety when vehicles are entering or leaving the construction site. • Appropriate warning signs should be put in place to warn the public especially motorists. • Have accident and incident reporting form to record accidents and near-misses. • Fence all excavations/trenches within communities to reduce risks of falling in trenches 	<ul style="list-style-type: none"> • Trained flagmen (to slow down traffic) or parking attendants must be used to ensure safety when vehicles are entering or leaving the facility. • Appropriate warning signs should be put in place to warn the public especially motorists. • Have accident and incident reporting form to record accidents and near-misses • Employment of lifeguards possibly from the local community to conduct rescue operations
	Public health issues	<ul style="list-style-type: none"> • Organize trainings on COVID-19 and Sexually Transmitted Diseases (STDs) for the workers and the community to create awareness. • Provide female and male condoms in washrooms for workers and patrons. • Conduct daily temperature screening of workers and patrons. • Provide handwashing stations and sanitizers 	<ul style="list-style-type: none"> • Sensitize community on COVID-19 and STDs. • Encourage health facilities to provide locals with condoms for STD prevention. • Conduct daily temperature screening of employees and patrons. • Provide handwashing stations and sanitizers

World Bank OP/BP	Potential Impact	Construction Phase Mitigation	Operation Phase Mitigation
		<ul style="list-style-type: none"> • Ensure workers and visitors adhere to all COVID-19 protocols including wearing of face mask and social distancing. • Encourage workers to get vaccinated. 	<ul style="list-style-type: none"> • Ensure workers and visitors adhere to all COVID-19 protocols including wearing of face mask and social distancing. • Encourage workers to get vaccinated. •
	Security concerns	<ul style="list-style-type: none"> • Provide adequate security by liaising with Police to conduct regular patrols • Sensitize local community on cultural tolerance and grievance mechanisms to prevent confrontations 	<ul style="list-style-type: none"> • Provide adequate lighting around the facility to prevent attacks in the dark • Provide adequate security by liaising with Police to conduct regular patrols • Employ local youth to provide security at car parks • Sensitize local community on cultural tolerance and grievance mechanisms to prevent confrontations •
	Gender based violence	<ul style="list-style-type: none"> • Require all contractors to have a Code of Conduct for project workers that prohibits gender-based violence (including sexual exploitation and abuse and sexual harassment (SEA/SH) as well as child and forced labour); prohibits sexual contact with persons under 18; and contains clear sanctions in the event of breach • Require all contractors to regularly train employees on Codes of Conduct and how to report incidents; • Require all contractors to document other SEA/SH risk mitigation measures (including incident response procedures) in their c-ESMPs or other safeguards instruments • Ensure that the project's Grievance Mechanism has special procedures for confidentially responding to GBV/SEA/SH complaints with a survivor-centred approach; • Put in place a referral pathway to GBV service providers linked to the Grievance Mechanism; • Develop an incident response protocol to guide the IA's response to GBV/SEA/SH incidents (Accountability and Response Framework) • Sensitize communities on GBV/SEA/SH risks as well as reporting mechanisms and expectations; 	<ul style="list-style-type: none"> • Facility must have and require all third-party contractors to have a Code of Conduct for workers that prohibits gender-based violence (including sexual exploitation and abuse and sexual harassment (SEA/SH) as well as child and forced labour); prohibits sexual contact with persons under 18; and contains clear sanctions in the event of breach • Facility must have and require all third-party contractors to regularly train employees on Codes of Conduct and how to report incidents; • Ensure that the facility's Grievance Mechanism has special procedures for confidentially responding to GBV/SEA/SH complaints with a survivor-centred approach; • Put in place a referral pathway to GBV service providers linked to the Grievance Mechanism; • Develop an incident response protocol to guide the IA's response to GBV/SEA/SH incidents (Accountability and Response Framework)

World Bank OP/BP	Potential Impact	Construction Phase Mitigation	Operation Phase Mitigation
		<ul style="list-style-type: none"> • Contact numbers of representative on the Grievance Redress Committee and GBV Service Providers should be pasted around the construction site • A minimum requirement of female employment should be indicated in the human resource policy of facility manager/operator 	<ul style="list-style-type: none"> • Sensitize communities on GBV/SEA/SH risks as well as reporting mechanisms and expectations; • Contact numbers of representative on the Grievance Redress Committee and GBV Service Providers should be pasted around the construction site • A minimum requirement of female employment should be indicated in the human resource policy of facility manager/operator
OP/BP 4.11 Physical Cultural Resources	Impact on social and cultural structures	<ul style="list-style-type: none"> • A code of conduct for employees and patrons that establishes rules for respect of local norms and traditions should be adopted. • Ensure that internal and external complaints are dealt with speedily. • Traditional authorities should be constantly engaged to ensure cordial relations between project and the local community. 	<ul style="list-style-type: none"> • A code of conduct for employees and visitors that establishes rules for respect of local norms and traditions should be adopted. • Ensure that internal and external complaints are dealt with speedily. • Traditional authorities should be constantly engaged to ensure cordial relations between project and the local community.
	Impact on cultural heritage resources such as shrines or cemeteries	<ul style="list-style-type: none"> • Avoid all cultural resources • Develop chance find procedures to guide handling of archaeological materials found by chance 	<ul style="list-style-type: none"> • N/A
OP/BP 4.12 Involuntary Resettlement	Impact on structures/ properties	<ul style="list-style-type: none"> • Engage PAPs and provide adequate information on project impact • To the extent possible, provide employment and other opportunities to local communities • Avoid impact on livelihoods and relocation (if any) to the extent possible • Where avoidance is not possible, consult PAPs, seek consent early, and develop a Resettlement Action Plan (RAP) • Ensure GRM (including GBV sensitive GRM) is established and operational 	<ul style="list-style-type: none"> • N/A
	Impact on livelihoods	<ul style="list-style-type: none"> • To the extent possible, provide employment and other opportunities to locals making a living out of the beach facility 	<ul style="list-style-type: none"> • N/A

World Bank OP/BP	Potential Impact	Construction Phase Mitigation	Operation Phase Mitigation
		<ul style="list-style-type: none"> Avoid impact on livelihoods and relocation (if any) to the extent possible 	

Stakeholder Engagement

The stakeholders engaged are in support of the project and are committed to ensuring smooth implementation of the project. Some of their major concerns however include:

- Stakeholder consultation and community entry – political and community leadership must be properly engaged for their buy-in to ensure the sustainability of the project.
- Project ownership – the project should be owned by the Ministry of Tourism and Cultural Affairs and managed using a PPP arrangement. The local community can however benefit from employment and boost in commercial activities. In cases where local community believes they can manage the project, consideration should be given to their proposal and adequate capacity built for them.
- Livelihood support– considering that poverty is high in the project area, this will improve the local economic, environmental and security situation of the project area.
- Access to finance - requirements of financial institutions and interest rates should be reviewed to allow to SMEs (beach bar operators, souvenir sellers, taxi drivers, tour guides etc.) that constitute about 60-70% of industry players access finance.
- Training - A capacity assessment and capacity building targeting locals should focus on areas such as Accounting, Marketing and Management. For implementing institutions, the focus should be on E&S issues. A skills development centre should be established to train locals especially women and children. They should also be provided some capital to start business.
- Project implementation and monitoring – An ecotourism plan should be developed to address issues of wildlife and forest protection, sand mining, stone breaking, natural disaster management, development of additional tourism attraction to mitigate environmental concerns. Respective MPs should be involved in monitoring of project implementation.

The key institutions/stakeholders that will work together to ensure sound project implementation and environmental protection include Ministry of Tourism and Cultural Affairs, Ministry of Trade and Industry, Ministry of Lands, PCU, Environmental Protection Agency, District Council, Local Committees, and Traditional Authorities in the project community.

The project will obviously benefit the local community through job creation, growth of businesses especially SMEs, better social services etc. The government will also benefit from increased revenue from taxes, foreign direct investment, reduced unemployment rate and a general improvement in the economy. Stakeholders are therefore urged to ensure that the outlined benefits accrue to the beneficiaries which includes the local community and government.

E&S Monitoring plan

At the project implementation stage, monitoring will be done to confirm the effectiveness of impact management, including the degree of success in implementing mitigation measures. During construction works, checks, reviews and inspections will be carried out to assess compliance with permit conditions. Monitoring will be done by the relevant institutions, the PCU, District Councils, National Tourist Board. A summary of impacts, mitigation, management and monitoring measures to be implemented is captured in the Table below.

Environmental and Social Monitoring Plan

No.	Potential Environmental and Social Impacts	Monitoring Parameters	Monitoring Site	Frequency	Responsibility (Implementation/ Supervision)	Cost Estimate/ Year (USD)
CONSTRUCTION PHASE						
	Occupational health and safety	<ul style="list-style-type: none"> Records of accidents, incidents and near misses. Records of PPE disbursed Housekeeping 	<ul style="list-style-type: none"> Construction site 	Monthly	Environmental and Social Safeguards Specialists	3,000
	Poor labour working conditions	<ul style="list-style-type: none"> Availability of copies of signed contracts Human Resource Management Plan/Recruitment Policy Complaints lodged by workers 	<ul style="list-style-type: none"> Construction site 	Monthly	Environmental and Social Safeguards Specialists	2,000
	Soil impacts and sediment transport	<ul style="list-style-type: none"> Observable change in turbidity of water in drains or water bodies Observable oil sheen in drain Observation of rills/gullies 	<ul style="list-style-type: none"> Construction site and Immediate environs 	Monthly	Environmental Safeguards Specialist	1,000
	Air and Noise Pollution	<ul style="list-style-type: none"> Dust (PM2.5, PM10 and TSP) Emissions (NOx, SOx, TSP) Noise (dB) levels Number of complaints by residents/workers 	<ul style="list-style-type: none"> Construction site and Immediate environs 	Monthly	Environmental Safeguards Specialist	2,000
	Waste generation and disposal	<ul style="list-style-type: none"> Number of mobile toilets and dustbins provided on site Number of times waste is lifted in a week Cleanliness of site/housekeeping Odour Complaints by workers/residents 	<ul style="list-style-type: none"> Construction site and Immediate environs 	Weekly	Environmental Safeguards Specialist	-

No.	Potential Environmental and Social Impacts	Monitoring Parameters	Monitoring Site	Frequency	Responsibility (Implementation/ Supervision)	Cost Estimate/ Year (USD)
	Community/Public safety concerns	<ul style="list-style-type: none"> Grievance records Traffic related incidents/accidents Records of accidents, incidents and near misses. No. of fenced excavations No. of installed safety signage 	<ul style="list-style-type: none"> Construction site and Immediate environs 	Monthly	Environmental and Social Safeguards Specialists	-
	Public health issues	<ul style="list-style-type: none"> Number of sensitization campaigns Number of condoms distributed to Contractor's staff in a month Number of STD cases reported to local health facilities involving encounters with Contractor's staff 	<ul style="list-style-type: none"> Construction site and Immediate environs 	Monthly	Environmental and Social Safeguards Specialists	1,500
	Security and GBV concerns	<ul style="list-style-type: none"> Number of conflicts/cases reported to the Grievance Redress Committee/Community Liaison Officer Number of conflicts/cases dealt with by the Grievance Redress Committee Number of crimes such as theft, defilement and rape reported, investigated, and concluded by the police Availability of worker Code of Conduct (CoC) Training records on CoC No. of sensitization programs organized 	<ul style="list-style-type: none"> Construction site and Immediate environs 	Monthly	Environmental and Social Safeguards Specialists	3,500
OPERATIONAL PHASE						

No.	Potential Environmental and Social Impacts	Monitoring Parameters	Monitoring Site	Frequency	Responsibility (Implementation/ Supervision)	Cost Estimate/ Year (USD)
	Occupational health and safety	<ul style="list-style-type: none"> Records of accidents, incidents and near misses. Records of PPE disbursed Housekeeping 	<ul style="list-style-type: none"> Facility site 	Monthly	HSE Manager	2,000
	Poor labour working conditions	<ul style="list-style-type: none"> Availability of copies of signed contracts Human Resource Management Plan/Recruitment Policy Complaints lodged by workers 	<ul style="list-style-type: none"> Facility site 	Monthly	HSE Manager and HR Manager	3,000
	Soil impacts and sediment transport	<ul style="list-style-type: none"> Observable change in turbidity of water in drains or water bodies Observable oil sheen in drain Observation of rills/gullies 	<ul style="list-style-type: none"> Facility site and immediate environs 	Monthly	HSE Manager	-
	Air and Noise Pollution	<ul style="list-style-type: none"> Dust (PM2.5, PM10 and TSP) Emissions (NOx, SOx, TSP) Noise (dB) levels Number of complaints by residents/workers 	<ul style="list-style-type: none"> Facility site and immediate environs 	Bi-annually	HSE Manager and Community Liaison Officer	5,000
	Waste generation and disposal	<ul style="list-style-type: none"> Presence of toilets and number of dustbins provided on site Number of times waste is lifted in a week Cleanliness of site/housekeeping Odour Presence of human waste on site Complaints by workers/residents 	<ul style="list-style-type: none"> Facility site and immediate environs 	Weekly	HSE Manager and Community Liaison Officer	4,000

No.	Potential Environmental and Social Impacts	Monitoring Parameters	Monitoring Site	Frequency	Responsibility (Implementation/ Supervision)	Cost Estimate/ Year (USD)
	Community/Public safety concerns	<ul style="list-style-type: none"> Grievance records Traffic related incidents/accidents Records of all accidents, incidents and near misses. 	<ul style="list-style-type: none"> Facility site and immediate environs 	Monthly	HSE Manager and Community Liaison Officer	3,000
	Public health issues	<ul style="list-style-type: none"> Number of sensitization campaigns Number of condoms distributed to workers or placed in washrooms in a month Prevalence of STD cases reported to local health facilities 	<ul style="list-style-type: none"> Facility site and immediate environs 	Monthly	HSE Manager and Community Liaison Officer	1,500
	Security and GBV concerns	<ul style="list-style-type: none"> Number of conflicts/cases reported to the Grievance Redress Committee/Community Liaison Officer Number of conflicts/cases dealt with by the Grievance Redress Committee Number of crimes such as theft, defilement and rape reported, investigated, and concluded by the police involving workers or patrons Availability of worker Code of Conduct (CoC) Training records on CoC No. of sensitization programs organized 	<ul style="list-style-type: none"> Facility site and immediate environs 	Monthly	HSE Manager and Community Liaison Officer	3,500

Grievance Redress Mechanism

Grievances can be an indication of growing stakeholder concerns (real and perceived) and can escalate if not identified and resolved. The management of grievances is therefore a vital component of stakeholder management and an important aspect of risk management for a project. Grievances and disputes that may arise during the course of implementation of the EDP will be related to the following issues among others:

- Siting of the project/subproject;
- Mistakes in inventorying or valuing properties;
- Disagreement on property boundaries, either between the affected person and the expropriation agency or between two neighbours;
- Disputed ownership of a given asset (two or more affected people claim that the affected asset is theirs);
- Disagreement on asset valuation methods and compensation amounts in cash or in-kind;
- Successions, divorces, and other family issues resulting in disputed ownership or disputed shares between inheritors or family members;
- Disagreement with the computation of the resettlement or livelihood assistance or transportation cost;
- Claims by people who relocated on their own after receiving notification about the project and the likelihood of impact on their activities; and
- Delays in resolving complaints of PAPs.

The general steps of the grievance process comprise the following which will include a feedback process for complainants to get responses within agreed time frames as shown in the table below:

- Registration/receipt of Complaints;
- Determining and Implementing the Redress Action;
- Verifying the Redress Action;
- Monitoring and Evaluation; and
- Dissatisfaction and Alternative Actions.

Steps	Process	Description	Timeline Maximum	Other information
1	Identification of grievance	Face to face; phone; letter, e-mail; recorded during public/community interaction; others	1 Day	Email address; hotline number
2	Grievance assessed and logged	Significance assessed and grievance recorded or logged (i.e. in a log book)	4-7 Days	Significance criteria Level 1 –one off event; Level 2 – complaint is widespread or repeated; Level 3- any complaint (one off or repeated) that

Steps	Process	Description	Timeline Maximum	Other information
				indicates breach of law or policy or this ESIA provisions
3	Grievance is acknowledged	Acknowledgement of grievance through appropriate medium	7 Days	
4	Development of response	Grievance assigned to appropriate party for resolution -Response development with input from management/ relevant stakeholders	4-7 Days 10-14 Days	
5	Response signed off	Redress action approved at appropriate levels	4-7 Days	Senior management staff of MoF should sign off
6	Implementation and communication of response	Redress action implemented and update of progress on resolution communicated to complainant	10-14 Days	
7	Complaints Response	Redress action recorded in grievance log book Confirm with complainant that grievance can be closed or determine what follow up is necessary	4-7 Days	
8	Close grievance	Record final sign off of grievance If grievance cannot be closed, return to step 2 or refer to sector minister or recommend third-party arbitration or resort to court of law	4-7 Days	Final sign off on by MoF

1.0 INTRODUCTION

1.1 Background of the Project

The Government of Sierra Leone (GoSL) with assistance from the World Bank Group (WBG) is implementing the Sierra Leone Economic Diversification Project (SLEDP) to improve the tourism business environment, enhance market access and improve tourism products and services. The project aims to increase investment and entrepreneurship in non-mining productive sectors, including tourism.

The proposed “Enhancing River No. 2 Beach experience” project aims at improving and enhancing the experience of River No. 2 Beach by providing improved access and signage, new complementary products (snorkelling and forest nature trails), improved facilities (vendors’ outlets, toilets, showers), water, electricity and waste management.

This project, which is one of six similar projects at different locations across Sierra Leone, is being developed as part of the SLEDP.

As required by the Environmental Protection Agency Act, 2008 and the EPA (Amendment) Act, 2010 and in line with the World Bank’s requirement on environmental and social sustainability (in compliance with OP4.01 - Environmental Assessment), an Environmental and Social Impact Assessment (ESIA) must be conducted for an undertaking of this nature. This report has been prepared to satisfy that requirement.

1.2 Objective of the Project

The objective of the project is to increase the overall socio-economic development of the project area through:

- Strengthening the business enabling environment;
- Building institutional capacity;
- Facilitation of strategic public investments;
- Increasing access to finance, and provision of business development services such as facilitating start-ups and expanding of SMEs; and
- Creation of jobs.

1.3 Scope of the ESIA

The scope of work for the ESIA study is to among other things:

- Provide technical description of the proposed project and identify all activities of environmental/social concern;
- Establish the existing environmental and socio-economic baseline conditions of the project area of influence;

- Predict and examine all the significant environmental and social impacts on the surrounding communities and the general environment during implementation of the proposed project and advise on appropriate mitigation and abatement measures against potential adverse impacts;
- Provide a monitoring program for predicted impacts;
- Provide an Environmental and Social Management Plan (ESMP);
- Document the socio-economic and cultural advantages and disadvantages associated with the proposed project for stakeholders and interested groups to make an informed decision on the level of environmental compromise and permitting.
- Provide framework to guide the development of an emergency response plan for the project;
- Provide guidelines to be followed in the event of decommissioning; and
- Carry out public consultations and include the outcome in the ESIA report with arrangements to address stakeholder concerns.

1.4 Methodology for the Assessment Process

This report has been prepared in accordance with applicable World Bank and Sierra Leone environmental assessment guidelines and involves the following activities:

- **Data gathering;** The Consultant assembled and evaluated relevant baseline data relating to the biophysical and socio-economic environment to be influenced by the project. The baseline data include climate, topography and relief, geology and soil, vegetation and fauna, demography, access to basic services and socio-economic conditions. In addition, this report has scoped out the issues and provided general assessment of the impacts.
- **Stakeholder identification and consultations;** Key stakeholders identified include Ministry of Finance, Ministry of Trade and Industry, Ministry of Tourism and Cultural Affairs, Ministry of Lands, Country Planning and the Environment, Environmental Protection Agency (EPA) of Sierra Leone, National Tourist Board (NTB), Small and Medium Scale Enterprises Development Agency (SMEDA) etc. The outcome of engagements with key stakeholders have been reviewed and incorporated in the study.
- **Data collation and analysis;** The report preparation involved review of project documents, related Environmental Impact Statements (EIS), as well as EPA, GoSL and World Bank reference documents as follows:
 - Project Documents (Project Appraisal Document);
 - District Profile for the Western Area Rural District;
 - Medium Term Development Plan;
 - Population and Housing Census Report, 2015;
 - Technical sheets for project development;
 - Sierra Leone EPA Guidelines
 - GoSL Reference Documents (Sierra Leone Demographic and Health Survey Report 2019, EPA Charter etc.)
 - World Bank Reference Documents (Environmental, Health and Safety Guidelines, and ESF Good Practice Notes on GBV in Major Civil Works)
 - Sector policy documents and regulations; and

- Relevant international conventions.

1.5 The ESIA Report Content and Structure

EPA-SL guidelines for preparation of ESIA and the World Bank Operational Policies (OPs) guided the preparation of this ESIA report. The outline of the report includes the following:

- A non-technical executive summary;
- An introduction describing the ESIA purpose, objectives, approach and methodology;
- A description of the project, with an emphasis on project scope;
- Analysis of alternatives;
- Policy, legal and administrative framework;
- Baseline environmental and social conditions of the Western Area Rural District of Sierra Leone;
- Stakeholder engagement;
- Potential environmental and social issues and impacts;
- Proposed mitigation measures;
- Environmental and social management plan requirements;
- Institutional arrangement for the implementation of the ESMP;
- Monitoring and reporting arrangements;
- Capacity building and training required to implement the ESMP;
- Public consultations and disclosure;
- ESMP implementation budget;
- Conclusion; and
- Annexes.

2.0 PROJECT DESCRIPTION

2.1 Project Scope

The proposed project, which includes upgrading of the destination in terms of access, parking, landscaping, facilities and utilities, aims at starting the process of transforming the destination, underpinning the quality aspects and staff and vendor training as a supporting measure.

The project will cover an area of 1 ha at River No. 2 Beach (Figure 2-1). Other opportunities that could be further explored concern the connection of the beach with the forest environment with nature trails. Additionally, there are numerous opportunities for small grants to assist the community youth and others to create and operate bars, small snack outlets, guide services, day-trip boat, snorkelling and whale watching businesses.

2.2 Project Design and Components

Main infrastructural components would be as follows.

- Upgrading of the access road (from the Peninsular Highway to the project area and within the existing right-of-way), including soil stabilization, improvement of the unpaved road and drainage, 500 m.
- Public lighting system along the access road, including lighting appliances and cabling (25 units).
- Landscaping of three “green parking” areas (interlocking paving with grass and new trees, local species, min. 3 m high): 10 parking bays each (150 sqm) at the entrance of the pedestrian-only area including parking for people with disabilities.
- Renovation of the existing handicraft market (open shaded structure, wood with thatched roof, including 10 vendor stalls of 3×3 m each) of 150 sqm.
- Improvement of the existing kitchen (refurbishment of the existing masonry building, including cleaning, internal and external painting, new pavings, fixtures, waterproofing, MEP).
- Staff facilities (block of 2 toilets, 2 showers and 2 changing rooms including simple masonry building with thatched roof).
- Visitors toilets and showers (simple masonry building with thatched roof of 40 sqm including a block of 4 composting toilets and 2 showers).
- Selfie point, wedding site, internet cafe with WiFi.
- Planting of 20 new trees, local species, min. 3 m high.
- Urban furniture appropriate to the site (benches and bins).
- Appropriate custom signage system including interpretive panels, path signs and roadside directional signs.
- Freshwater supply system (Reverse Osmosis [RO] system).
- Connection to telecommunication network (wire/wireless).
- Solar power supply system (solar power micro-grid system with diesel backup generator)

2.2.1 *Infrastructure and Landscaping*

Infrastructural works and improvement will include the upgrading and lighting of the access road (for approximately 500 m) and two green parking areas (with 30 parking bays). The establishment of additional parking spaces for peak time along the main road on land to be made available by the local community should be explored at the design stage.

Additional improvements include the planting of new trees, supply of street/beach furniture (bins for recycling, bicycle racks, benches, chaise longues, etc.) and a custom-designed signage system.

The works will include the following:

- Upgrading of the access road (from the Peninsular Highway to the project area), including soil stabilization, improvement of the unpaved road with porous asphalt and concrete produced from recycled material or permeable concrete pavers, and drainage, 500 m.
- Public lighting system along the access road, including lighting appliances and cabling (63 units).
- Landscaping of three “green parking” areas (interlocking paving with grass and new trees, local species, min. 3 m high): 30 parking bays (840 sqm) at the entrance of the pedestrian-only area including parking for people with disabilities.
- Planting of 20 new trees, local species, min. 3 m high.
- Street/beach furniture appropriate to the site (bins for recycling, bicycle racks, benches, chaise longues, etc.).
- Custom signage system including interpretive panels, path signs and roadside directional signs.

2.2.2 *Site Facilities*

The improvement of visitors and staff facilities foresees the construction of a building to house the existing handicraft market, the improvement of the existing kitchen, the construction of a small block including visitors’ showers and toilets and the construction of a small block including staff facilities.

The works will include the followings:

- Renovation of the existing handicraft market (open shaded structure, wood with roofing panels made of recycled materials, including 10 vendor stalls of 3×3 m each) of approx. 100 sqm.
- Improvement of the existing kitchen (refurbishment of the existing masonry building, including cleaning, internal and external painting, new pavings, fixtures, waterproofing, MEP) and provision of kitchen equipment (refrigeration, stainless steel equipment, etc.);
- New visitors’ showers and toilets (a simple masonry building with roofing panels made of recycled materials of approx. 50 sqm including a block of 4 showers and 4 composting toilets.
- Staff facilities (a simple masonry building with roofing panels made of recycled materials of approx. 50 sqm including 2 toilets, 2 showers and a changing room.
- All toilets will be composting toilets.
- The recommended material for roofing is polyethylene-aluminium roof made with recycled tetrapak.

2.2.3 Utilities

Utilities will include a reverse osmosis system to ensure fresh water supply, a hybrid photovoltaic diesel power supply system and a ASDXSsmall-scale wastewater unit to ensure proper treatment of the waste water produced by the facilities.

Works will include the following:

- Freshwater supply system.
- Solar power supply system (hybrid photovoltaic diesel micro-grid system).
- Small scale wastewater treatment unit(s).
- Connection to telecommunication network (wire/wireless).

The RO water system and the hybrid solar power supply system will be located in a fenced area, not far from the beach facilities, to be identified at the design stage.

2.2.4 Waste Management

Municipal waste generated will be collected and segregated using bins placed at suitable points. A well separated space/area will be designated to temporarily collect/sort/recycle solid waste before it is taken to the municipal dump site. Compost will be used as mulch for lawns.

Sewage generated on site will be managed using a small-scale wastewater treatment facility, the biorock system. The Biorock system is a compact non-electric residential wastewater treatment plant that includes a primary tank which clarifies the raw sewage by dividing fats, oils, greases and organic solids. The water then goes through an effluent filter and then enters a bioreactor. In the bioreactor, wastewater is additionally purified with a biological process. Finally, the effluent is discharged by gravity or by a pump in accordance with the ground type.

The wastewater enters a primary tank for the separation and breakdown of organic solids (primary treatment), then it gets to the effluent filter before getting to the secondary treatment that includes an aerobic digestion process. In addition, both the primary tank and the bioreactor are aerated naturally. When gravity discharge is not possible, a pumping well is added to the system. The effluent water can be used for groundwater recharging or irrigation, due to its high quality. The system has low carbon footprint and minimum annual maintenance efforts. Biorock also offers a multiple system for larger number of users. In this case, after the primary tanks a flow control chamber is positioned in order to distribute water evenly. A splitter box than splits water in multiple biorock units.

2.2.5 Signage System

Appropriate custom signage system including interpretive panels, path signs, roadside directional signs, and so forth will be installed at the site.

The signage system proposed is based on the study of existing contemporary signage systems of similar contexts and inspired to the specific identity of Sierra Leone, related to its “green and blue” heritage and its culture of hospitality.

The design concept is based on clarity and usability: everybody must see and interpret the signs easily. The size of the font and the use of pictograms and pictures is designed in order to facilitate understanding.

The system is designed to be easily produced and replaced by local communities, by using local woods and craft skills.

The types of signs included in the system are the following:

- Welcome signs. They welcome the tourists and visitors arriving at the destination and are located at the entrance of the sites.
- Orientation maps. They are essential for orientation, must be placed at carefully planned locations, based on customised maps with international symbols, enhanced readability, easy interpretation, including any defined trail with departure and arrival point, key attractions, facilities and safety instructions.
- Path signs. They provide guidance on the pathway that visitors should follow to easily move around the target area. Density of signs should be adequate to the environment but in principle they must be sufficient to ensure safe and easy circulation. If on pedestrian trails, it is advisable to ensure that at least one sign is always visible (1/50m minimum). The system includes pedestrian path signs, along walking trails; the directional pole, visible to both pedestrians and vehicles; and roadside directional signs along the main and secondary streets.
- Interpretation signs. They deliver information on the site to the visitor and add value to his/her experience.
- Services and facilities. Signs giving directions for tourist facilities and amenities such as toilets, food and beverage, information centres, etc. are included in the path signs systems.
- Regulations and “no littering” signs. They provide regulations to be followed by visitors on beaches and natural areas.



Figure 2- 1: Location of the proposed project



The beach



Green parking



Handcraft market



Visitors' facilities

Figure 2- 2: Schematic drawing of infrastructure at River No. 2



Figure 2- 3: Site plan of the River No. 2 project

2.3 Proposed Project Activities

2.3.1 Preparatory Phase Activities

Pre-construction phase activities include among others:

- Survey and site selection;
- Project feasibility studies and Geotechnical assessments;
- Preparation of Environmental and Social Impact Assessment (ESIA) report
- Material sourcing arrangements/contracts; and
- Mobilisation of construction staff.

Survey and site selection

The project site will be surveyed to ascertain the suitability of the site for the proposed project and to appreciate any challenges that may hinder implementation. Approval for survey drawing will be obtained from the relevant authorities before project implementation.

Project feasibility studies and Geotechnical assessments

Project feasibility studies will be conducted to confirm the viability of the project. Also, geotechnical assessments will be carried out to determine the suitability of the soil for the project and required improvements, if any.

Preparation of Environmental and Social Impact Assessment (ESIA) report

An ESIA as required by law and international best practice, will be prepared to obtain environmental approval for the execution of the project. The ESIA will be in compliance with World Bank OP 4.01 – Environmental Assessment.

Material sourcing arrangements/contracts

Materials and equipment for construction would be sourced locally, legally and documented. Sourcing will be from permitted producers or suppliers and copies of permits will be obtained before procurement, especially raw materials like sand and gravels. Materials and equipment not available locally would be sourced abroad.

Mobilisation of construction staff

Majority of construction workers both skilled and unskilled are expected to be employed from the surrounding communities. However, for unavailable skills, persons outside the local communities will be engaged.

Worker welfare facilities will be provided and shall be appropriate for its location and be clean, safe and, at a minimum, meet the basic needs of workers. It will meet national legislation and international good practice in relation, but not restricted, to the following; the provision of minimum amounts of space for each worker; provision of sanitary, facilities and potable water; any health, fire safety or other hazards or disturbances and local facilities; the provision of first aid and medical facilities.

2.3.2 *Construction Phase Activities*

Construction phase activities, as described in Section 2.2 above, include among others:

- Mobilisation and transportation of equipment to project site;
- Upgrading of access road and installation of appropriate signage;
- Construction of parking bays;
- Renovation of existing handicraft market;
- Renovation of existing kitchen;
- Construction of visitors' toilets and facilities;
- Construction of staff toilets and facilities;
- Installation of an RO water system;
- Connection to utilities such as electricity, water and telecommunications network; and
- Construction of waste treatment system.

2.3.3 *Operation Phase Activity*

Operation phase activities will be mainly maintenance and management of project facilities. Upon completion of construction of the project, operation and maintenance will be the responsibility of the facility manager that will be selected through Public Private Partnership (PPP) arrangement or other suitable arrangement. There will be routine and emergency maintenance of the facilities as per the facility manager's Operations and Maintenance (O&M) procedures.

3.0 ANALYSIS OF ALTERNATIVES

3.1 Options for Consideration

The proposed project considered some feasible options in respect of their potential environmental and social impacts. These are analysed in **Table 3-1** and include:

- Water supply and treatment;
- Electricity supply;
- Waste management; and
- No option.

Table 3- 1: Analysis of Alternative Project Options

Option/ Method of Deployment	Potential Environmental, Social, Technological and Economic Implications		Preferred Option
Water supply and treatment options			
1. Reverse Osmosis	Advantages 1. It is the best method for water softening. 2. The semipermeable membrane will block all ion particles. 3. Maintenance of the system is very simple. 4. It gives clean and pure water by blocking all contaminants. 5. The system is very compact, and it requires little space. 6. The useful life of the full system, including the membrane, is over two years. 7. This system does not require any use of chemicals to purify water. 8. The energy requirement for the reverse osmosis system is very low. 9. Reverse Osmosis systems are totally automated and are designed to start and stop on their own.	Disadvantages 1. Leads to wasted water 2. Removes minerals 3. Sometimes reverse osmosis leads to clogging of the whole system. 4. It requires routine filter changes and maintenance. 5. The installation cost of a reverse osmosis system is high. 6. Hard water can damage the system. 7. The damaged membrane will allow any small microorganism to pass through it. 8. The applied pressure has to be more than the osmotic pressure, or the system will not work.	Option 1, Reverse Osmosis is the preferred option for the project as it has a lot of advantages making it the best option.
2. Ultraviolet water sterilization and filtration	Advantages 1. Highly effective at removing microorganisms 2. Energy-efficient 3. Environmentally friendly	Disadvantages 1. High start-up costs 2. It is unable to purify water on its own 3. Electricity is required to operate it	

Option/ Method of Deployment	Potential Environmental, Social, Technological and Economic Implications		Preferred Option
3. Filtration	<ol style="list-style-type: none"> 1. Water filtration is cost effective, and it does not require a lot of money to maintain. 2. It is very easy and straightforward to use. 3. The odor and taste of the water improves. Water filtration also gets rid of chlorine in the hard water. 4. The method also ensures that harmful toxins and contaminants such as chlorine, disinfection by products and heavy metals such as mercury, lead, and arsenic are removed. 	<ol style="list-style-type: none"> 1. Frequent replacement and disposal costs. 2. Not all germs and contaminants are removed from filtered water. When the process is taking place very, small particles can pass through the membranes used to perform water filtering. 	
Electricity supply options			
1. National Grid	Advantages <ol style="list-style-type: none"> 1. Consumers can still be supplied from others around the country if one power station needs maintenance. 2. More energy generation facilities increase efficient power flow and provide peace of mind to consumers. 	Disadvantages <ol style="list-style-type: none"> 1. Power is wasted heating the power lines. 2. In some areas, overhead power cables and their supporting towers are an eyesore. 	Option 3, Hybrid Photovoltaic Micro-grid System is the preferred option for the project as the advantages make it the overwhelming choice.
2. Generator (diesel)	Advantages <ol style="list-style-type: none"> 1. Diesel generators require less maintenance 2. They consume less fuel than gas generators 3. They are durable 4. They have a safe fuel storage 5. They have an enhanced life span 6. Has a continuous power supply 7. They are capable of handling larger power loads and run for longer duration than other types of generators available. 	Disadvantages <ol style="list-style-type: none"> 1. They are very noisy in their operation 2. They are expensive 3. Fuel may not be accessible during a blackout 4. They produce carbon dioxide, nitrogen oxide, and other harmful gases that are released into the atmosphere. 5. Its heavy components can make repairs expensive. 	
3. Hybrid Photovoltaic Microgrid system	<ol style="list-style-type: none"> 1. Continuous Power Supply 2. They utilize renewable sources in the best way 3. Maintenance cost of the hybrid solar energy systems is low as 	<ol style="list-style-type: none"> 1. The controlling process may be complicated. 2. High installation cost 	

Option/ Method of Deployment	Potential Environmental, Social, Technological and Economic Implications		Preferred Option
	<p>compared to the traditional generators which use diesel as fuel.</p> <p>4. Works more efficiently than a traditional generator</p> <p>5. They manage load accordingly.</p>	<p>3. Less battery life due to exposure to natural elements like heat, and rain.</p> <p>4. The number of devices connectable to a hybrid solar energy system is limited and vary from system to system.</p>	
Waste Management Option			
1. Composting plant	<p>Advantages</p> <p>1. Improvements in soil quality.</p> <p>2. Enhances the structure of the soil.</p> <p>3. Eco-friendly.</p> <p>4. Fully organic fertilizer.</p> <p>5. Higher yields.</p>	<p>Disadvantages</p> <p>1. Requires initial investment.</p> <p>2. Efficiency depends on the amount of organic waste</p> <p>3. May attract rats, snakes, and bugs.</p> <p>4. Requires space</p> <p>5. Unpleasant smell</p>	<p>Composting (Option 1) is the preferred option especially for organic waste as it is eco-friendly and saves municipal landfill space.</p>
2. Municipal Waste Dump/ landfill sites	<p>Advantages</p> <p>1. Straightforward concept to deal with waste.</p> <p>2. Filled land can be reused for other community purposes.</p> <p>3. Landfills can prevent environmental dumping.</p> <p>4. Good for waste that is non-recyclable.</p>	<p>Disadvantages</p> <p>1. Completed landfill areas can settle and requires maintenance.</p> <p>2. Requires proper planning, design, and operation.</p> <p>3. Can contribute to groundwater pollution.</p> <p>4. Landfills can be a breeding ground for bacteria.</p>	<p>However, some solid waste will end up in the municipal waste dump/landfill</p>
No Option			
	<p>Advantages</p> <p>1. Funds for the project implementation could be used for solving other development problems, albeit less dire</p>	<p>Disadvantages</p> <p>1. Non implementation of the project will continue to deprive project communities of access to economic opportunities associated with tourism. Also, locals who would have been offered employment will continue livelihood activities such as stone quarrying, charcoal burning etc. which degrade the environment.</p> <p>2. Government will loose revenue and the opportunity to enhance the country's image as a tourist destination for economic growth.</p>	<p>This option is not preferable</p>

4.0 POLICY, LEGAL AND REGULATORY FRAMEWORK

National and sector legislation and policies relevant to the tourism sector have been reviewed in this section. Also, institutional requirements for assessment and management of environmental and social issues have been considered. These have been summarized in **Table 4-1** under the following themes:

- Policies and Plans
- National legal framework;
- Tourism sector legislation and related requirements;
- Local governance, planning and other institutional requirements;
- Public Health, Safety, Security and Social Protection
- Environmental legislation in Sierra Leone; and
- World Bank safeguard policies.

4.1 Policies and Plans

The policies and plans reviewed and applied in the assessment include:

- National Tourism Policy, 2017
- The National Environmental Policy, 1994
- The National Lands Policy, 2015
- The National Water and Sanitation Policy, 2010
- National Biodiversity Strategic Action Plan 2017
- The National Action Plan on Gender Based Violence, 2012 – 2016
- The Sierra Leone National Action Plan 2016 – 2018

Table 4- 1: Relevant Legal Framework and Key Compliance Requirements

No.	Policies and Plans	Applicability to Proposed Project
1.	<p><u>National Tourism Policy, 2017</u></p> <p>The recently validated National Tourism Policy (2017), affirms that the goal of tourism in Sierra Leone is to generate foreign exchange, encourage even development, promote tourism- based rural enterprises, generate employment, accelerate rural urban integration and foster socio-cultural unity among the various regions of the country, through the promotion of domestic and international tourism.</p> <p>One of the principal objectives of establishing the tourism policy is to guarantee and safeguard the effective standardization of processes and practices within the industry. This standardization fosters uniformity and consensus regarding practices which can result in increased sustainability and an overall improvement in the quality of the tourism product. Furthermore, an appropriate use of environmental and human resources should take place as a result of the implementation of the tourism policy.</p> <p>The sustainable tourism policy will facilitate government's heightened involvement in the activities of the tourism sector. If policies are</p>	<p>The policy is relevant to the project as it offers guidance to stakeholders and reaffirms the commitment of the government to ensuring the sustainable growth of the tourism sector</p>

No.	Policies and Plans	Applicability to Proposed Project
	implemented, leading to formulation of effective legislation, the result should be an increased effectiveness and efficiency of tourism activities.	
2.	<p><u>The National Environmental Policy, 1994</u></p> <p>The National Environmental Policy seeks to achieve sustainable development in Sierra Leone through the implementation of sound environmental management systems which will encourage productivity and harmony between man and his environment. Thus, the key objective of the policy is to secure for all Sierra Leoneans a quality environment that can adequately provide for their health and well-being. The policy indicates inter-sectoral synergies in major areas for policy formulation. It takes into consideration major sector goals and policies for enhancing sustainability in environmental management systems.</p>	This policy requires implementation of sound environmental management systems and the project ESMPs satisfy this requirement
3.	<p><u>The National Lands Policy, 2015</u></p> <p>The National Land Policy promotes the objectives of equal opportunity and sustainable social and economic development. The principles guiding the Land Policy include: (1) protecting the common national or communal property held in trust for the people; (2) preserving existing rights of private ownership; and (3) recognizing the private sector as the engine of growth and development, subject to national land-use guidelines and rights of landowners and their descendants.</p>	The proposed project sites has been confirmed as state land and relevant authorities have been duly consulted.
4.	<p><u>The National Water and Sanitation Policy, 2010</u></p> <p>The National Water and Sanitation Policy aims to: improve the financing, management, and delivery of sustainable water services; and enable communities to adopt safe hygiene and sanitation practices and consume safe water. The Policy has five key themes that include: (i) Water Resources Management including equal access and use of water resources, effective water resource use; promotion of water management and quality and sustainable procedures and plans for the resource development; (ii) Urban Water Supply and Sewerage that aims to improve urban water supply coverage to 74% by 2015, improve sanitation coverage, prevent wasteful water use, improve participation, capacity and accountability (iii) Rural Water Supply – to improve health and alleviate poverty of the rural population through improved access safe water, community participation, investment and other activities (iv) Hygiene and Sanitation – to improve the health of communities and ensure that the majority of the population (66%) has access to sanitation services by 2015 (v) Institutional, Legal and Regulatory Framework to ensure sustainable water resources management.</p>	The project ESMP provides for the prevention of pollution and management of waste onsite
5.	<p><u>National Biodiversity Strategic Action Plan 2017</u></p> <p>The Sierra Leone Biodiversity Strategic Action Plan comprises a series of measures and mechanisms intended to conserve and promote the sustainable use of the different components of the country's biodiversity. The actions proposed to cover several key thematic areas under terrestrial biodiversity, inland water ecosystems, forest biodiversity, marine and coastal biodiversity, and agricultural biodiversity.</p> <p>This Action Plan is intended to provide a framework for setting priority policies and actions for the conservation and sustainable use of biological diversity in Sierra Leone; facilitate information sharing and coordinated action among the various stakeholders at the national level and foster</p>	The project will as much as possible avoid or minimise adverse biodiversity impacts e.g. trees will be planted to offset the effect of vegetation clearance.

No.	Policies and Plans	Applicability to Proposed Project
	scientific and technical cooperation with other countries and international organization.	
6.	<p><u>The National Action Plan on Gender Based Violence, 2012 – 2016</u></p> <p>The Ministry of Social Welfare, Gender and Children's Affairs published the Sierra Leone National Action Plan on Gender Based Violence, a 5-year strategic planning document covering the period 2012 – 2016.</p> <p>The NAP served as an overarching framework for the prevention, response and prosecution of acts of GBV and served as a guide to service providers and implementing bodies, including government ministries and NGOs, on how to provide coordinated, effective and sustainable protection and services to victims/survivors of GBV.</p>	Tourism projects increase the risk of GBV issues in communities especially areas with high GBV issues like the project area. These issues have been addressed by the mitigation measures proposed in this report.
7.	<p><u>The Sierra Leone National Action Plan 2016 – 2018</u></p> <p>The Sierra Leone National Action Plan on UN Resolution 1320 and 1825 aims to protect, empower women and girls vulnerable to sexual violence, preventing sexual violence through the enactment and implementation of laws and above all ensure the active participation and representation of women in leadership positions. The SIL NAP also promotes coordination of the implementation of the document itself.</p>	Tourism projects increase the risk of GBV issues in communities especially areas with high GBV issues like the project area. These issues have been addressed by the mitigation measures proposed in this report.

4.2 National Regulatory Framework

The regulatory areas reviewed and applied in the assessment in compliance with national requirements include:

- The Constitution of Sierra Leone, 1991
- Environmental Protection Agency Act, 2008 and the EPA (Amendment) Act, 2010
- Environment Protection Agency (Environmental Impact Assessment License) Regulations 2010
- National Protected Area Authority and Conservation Trust Fund Act, 2012
- The Forestry Act, 1988
- Forestry Regulations, 1990
- Wildlife Conservation Amendment Act, 1990
- National Disaster Management Agency Act, 2020
- Sierra Leone Water Company Act, 2017
- The Road Transport Authority Act (1996) (Amended to the Roads Safety Authority Act, 2016)
- The Road Maintenance Fund Administration Act, 2010
- Employers and Employed Act, 1960
- Factories Act, 1974

No.	Legal Framework and Key Compliance Requirements	Applicability to Proposed Project
8.	<p><u>The Constitution of Sierra Leone, 1991</u></p> <p>Section 15 of the Constitution states that: "... every person in Sierra Leone is entitled to the fundamental human rights and freedoms of the individual." This includes protection from deprivation of property without compensation. Section 21(1) further stipulates that no property of any</p>	Makes provision for the compensation of persons whose property or livelihood will be affected

No.	Legal Framework and Key Compliance Requirements	Applicability to Proposed Project
	description shall be compulsorily taken possession of, and no interest in or right over property of any description shall be compulsorily acquired, except where land is required by the GoSL in the public interest.	
9.	<p><u>Environment Protection Agency Act, 2008 and the EPA (Amendment) Act, 2010</u></p> <p>This Act establishes the Environment Protection Agency— Sierra Leone (EPA-SL), defines its functions and powers, provides for its organization and administration, and provides rules for various matters regarding the environment in Sierra Leone. The Agency is established as a corporate body managed by the Board of Directors and an Executive Chairperson to provide for the effective protection of the environment and other related matters. It mandates the EPA among others to:</p> <ul style="list-style-type: none"> • Advise the Minister of Environment on the formulation of policies on all aspects of the environment; • Issue environmental permits and pollution abatement notices for controlling the volume, types, constituents and effects of waste discharges, • emissions, deposits or other sources of pollutants of substances which are hazardous and dangerous to the quality of the environment; • Prescribe standards and guidelines relating to ambient air, water and soil quality, air pollution, water, land and other forms of environmental pollution including the discharge of waste and the control of toxic substances; • Ensure compliance with any environmental impact assessment procedures laid down in the planning and execution of development projects; and • Impose and collect environmental protection levies. <p>Part IV of the Act exclusively deals with the activities requiring Environmental and Social Impact Assessment and describes the permitting processes leading to the acquisition of an environmental license.</p>	Provides guidance on registration, screening and assessment of the project impacts. This ESIA report is guided by same.
10.	<p><u>Environmental Protection Agency (Environmental Impact Assessment License) Regulations 2010</u></p> <p>The Environmental Protection Agency Regulations 2010 augmented the Environmental Protection Agency Act 2008, detailing how the application for a license is undertaken and the requirements to mitigate, monitor and manage the impacts identified in the assessment. In addition, the stipulate the structure and contents of the ESIA report.</p>	Provides guidance on registration, screening and assessment of the project impacts. This ESIA report is guided by same.
11.	<p><u>National Protected Area Authority and Conservation Trust Fund Act, 2012</u></p> <p>This Act provides for the establishment of the National Protected Area Authority (NPAA) and Conservation Trust Fund. The purpose of the Act is to promote biodiversity conservation, wildlife management, research and to provide for the sale of ecosystems services in national protected areas. Part III of the Act states the role of the NPAA, which is to exercise oversight and authority over National Parks and Protected Areas designated for conservation purposes and to promote sustainable land-use practices and sustainable environmental management. Furthermore, section III (f) states that another function of the NPAA is to collaborate with other stakeholders in developing a national REDD+ Strategy and to promote REDD+ projects in Sierra Leone as a sustainable source of financing for protected</p>	No forests or protected areas will be impacted but biodiversity impacts from clearance of some vegetation as part of site preparation are addressed by the ESMP

No.	Legal Framework and Key Compliance Requirements	Applicability to Proposed Project
	area management. Section III (xi) promotes co-management of natural resources for the NPAA within and outside national protected areas with local forest edge communities.	
12.	<p><u>The Forestry Act, 1988</u></p> <p>This Act is identified as pertinent to the Sustainable Tourism Development Project activities because the activities would impact the forest and the Act preserves the forest environment, promoting the practice of forestry in all use of forestland, to ensure sustainability of forest products, and the protection of the soil and water resources that constitute the environment. Removal of a national or community forest by whatever means, without legal permission, is prohibited by the Act.</p>	No forests or protected areas will be impacted but biodiversity impacts from clearance of some vegetation as part of site preparation are addressed by the ESMP
13.	<p><u>Forestry Regulations, 1990</u></p> <p>This Act is targeted because the proposed tourism activities may adversely affect portions of the protected forest of the Western Area Peninsula and the regulations state that no protected forest should be tampered with in any way without written permission of authorisation from the Forestry Division to clear land in a classified forest.</p>	No forests or protected areas will be impacted but biodiversity impacts from clearance of some vegetation as part of site preparation are addressed by the ESMP
14.	<p><u>Wildlife Conservation Amendment Act, 1990</u></p> <p>The Wildlife Conservation Act provides for the protection of wildlife and conservation management and includes the establishment and operation of National Parks. Relevant requirements to this project are included below:</p> <ul style="list-style-type: none"> Activities within the National Protected Areas that would disturb or injure the flora and fauna or cause destruction or damage to the habitat is forbidden; Section 20, concerning the prohibition of cutting trees applies to the period between publishing the intention to create a NP and its creation. Article 7 (c), (l) & (m) particularly apply though and are prohibited, unless authorised. 	No known wildlife will be impacted but biodiversity impacts from clearance of some vegetation as part of site preparation are addressed by the ESMP
15.	<p><u>National Disaster Management Agency Act, 2020</u></p> <p>This Act provides for the National Disaster Management Agency to; manage disasters and similar emergencies throughout Sierra Leone,</p> <ul style="list-style-type: none"> establish offices of the Agency throughout Sierra Leone, establish national, regional, district and chiefdom disaster management committees, establish a National Disaster Management Fund to provide finances for the prevention and management of disasters and similar emergencies throughout Sierra Leone and to provide for other related matters. 	The project involves soil stabilization and geotechnical studies. The relevant agencies will be engaged for support.
16.	<p><u>National Water Resources Management Agency Act 2017</u></p> <p>This Act provides for the equitable, beneficial, efficient, and sustainable use and management of the country's water resources; to establish a National Water Resources Management Agency; to provide a Water Basin Management Board and Water Catchment Area Management Committees for the management of the water resources and other related matters. The Act makes provisions for how the Project is required to abstract water from the water resource points. Specifically, Part II, Section 2 prohibits the unlicensed use of raw water, while Part VII, Sections 28 and 29 outlines the procedure for a water use permit acquisition.</p>	Project construction activities could impact water bodies through sediment transport. This is addressed by the EMP
17.	<p><u>Sierra Leone Water Company Act, 2017</u></p>	The project will be connected to utility services including water. At

No.	Legal Framework and Key Compliance Requirements	Applicability to Proposed Project
	The Act establishes the Sierra Leone Water Company to; develop and operate satisfactory water supply services at reasonable costs and on self-supporting basis in every specified area; and facilitate the provision of safe water and related sanitation services in rural communities	the operational phase water will be required for daily operations
18.	<p><u>The Road Transport Authority Act (1996) (Amended to the Roads Safety Authority Act, 2016)</u></p> <p>This is an Act to provide for the establishment of an authority for the regulation and development of the road transport industry, including the registration and licensing of vehicles, the licensing of drivers, the prescription of routes for passenger and goods transportation and for other related matters.</p> <p>The objectives for which the Authority is established is regulate, coordinate and promote efficiency in all activities within the road transport sector, with a view to enhancing or improving the contribution of the sector to the economic development of Sierra Leone:</p> <p>Responsibilities of the Authority include the following:</p> <ul style="list-style-type: none"> • to design and regulate rules and regulations regarding: <ul style="list-style-type: none"> – registration and licensing of vehicles – testing vehicle and driver fitness – licensing of drivers – the routing and monitoring of passenger and goods transportation • to promote road safety through: <ul style="list-style-type: none"> – the establishment and dissemination of a code of conduct, to be known as a Highway Code for drivers and other users of roads and highways – to establish and maintain a data bank of relevant information on vehicles and the transportation industry as a whole <p>The Authority has the power to impose and levy fines including vehicle licensing and registration fees with the approval of parliament.</p>	The project implementation will come with some traffic impacts and the relevant road safety institutions must be engaged to ensure the safety of persons and property
19.	<p><u>The Road Maintenance Fund Administration Act, 2010</u></p> <p>This is an Act to establish a Road Maintenance Fund and an administration for financing the maintenance of the core road network and to provide for other related matters.</p> <p>The object for which the Administration was established is the proper, efficient, economic and sustainable management and administration of the Fund.</p> <p>The functions of the Administration include:</p> <ul style="list-style-type: none"> • management and administration of the Fund; • subject to this Act, approval of the amount of funding to be made available to the Authority from the Fund for the performance of the Authority's functions; • effective monitoring of the use of monies allocated from the Fund; • approval of any application from any local council or body for funding from the Fund, of any road-related activity; 	District and local council and other relevant institutions will have to access the fund to maintain the upgraded road especially at the operation phase
20.	<p><u>Employers and Employed Act, 1960</u></p> <p>The Act regulates relations between employers and employed, and safeguards the health of the employed. Sets forth provisions relating to the formation and interpretation of contracts of service, the recruitment of native labour for foreign services, restrictions on the engagement of industrial workers, employment of women, adolescents, and children</p>	Development of the project's human resource and recruitment policies and plans will be guided by this national employment legislation

No.	Legal Framework and Key Compliance Requirements	Applicability to Proposed Project
	apprenticeship contracts. Also regulates the death, insolvency, and change of residence of the employer; breaches of contract and disputes between the employer and employed, provisions as to agents; advances by employers.	
21.	<u>Factories Act 1974</u> This Act deals with health and safety measures as they concern the factory worker. It protects the worker through demands for all aspects of cleanliness, reports of all injuries, accidents, diseases, and death. It makes provision for inspection of facilities, prescribes the powers of an inspector, and sets penalties for defaulting parties.	Occupational health and safety issues will arise especially during construction and plans and policies will be guided by this Act

4.3 Tourism Sector Legislation and Related Requirements

The tourism sector legislation reviewed include:

- The Development of Tourism Act 1990
- Sierra Leone Local Content Agency Act, 2016
- Sierra Leone Small and Medium Enterprises Development Agency Act, 2016
- Public Private Partnership Act, 2014
- The Finance Act, 2016

No.	Legal Framework and Key Compliance Requirements	Applicability to Proposed Project
22.	<u>The Development of Tourism Act 1990</u> The Development of Tourism Act 1990 provides for the promotion and development of Tourism in Sierra Leone; and to provide for the establishment of a National Tourist Board for the implementation of the Ministry's strategies and policies. This Act establishes a National Tourism Authority – the National Tourist Board of Sierra Leone, defined its roles, responsibilities and provides very attractive statutory development aids and incentives for investors in the Hotel and Tourism sector.	The National Tourist Board will be responsible for classifying the facilities upon completion before operation.
23.	<u>Sierra Leone Local Content Agency Act, 2016</u> Establishes the Sierra Leone Local Content Agency to provide for the development of Sierra Leone local content in a range of sectors of the economy such as industrial, manufacturing, mining, petroleum, marine resources, agriculture, transportation, maritime, aviation, hotel and tourism, procurement of goods and services; public works, construction and energy sectors; to promote the ownership and control of productive sectors in the economy by citizens of Sierra Leone; and to provide for other related matters.	The SLEDP implementation will see locals being employed as well as SMEs supplying the necessary goods and services to tourism facility operators.
24.	<u>Sierra Leone Small and Medium Enterprises Development Agency Act, 2016</u> Being an Act to provide for the establishment of the Small and Medium Enterprises Development Agency, to create a conducive environment within which Small and Medium Enterprises can thrive and operate, to provide for Sierra Leone's fiscal, monetary and banking policy, trade and industry, technology, marketing, infrastructural and institutional development, and for other related matters.	The objective of the project is to ensure economic development. SMEDA will be instrumental in providing access to affordable finance for SMEs in the tourism industry

No.	Legal Framework and Key Compliance Requirements	Applicability to Proposed Project
25.	<p><u>Public Private Partnership Act, 2014</u></p> <p>Being an Act to promote, facilitate and streamline conclusion and implementation of public private partnership (PPP) agreements by a contracting authority; to establish a Public Private Partnership Unit; to establish private partner selection procedures in PPP Agreements; and to provide for matters incidental thereto.</p> <p>Amends the National Public Procurement Act, 2004.</p>	At the operations phase, facilities will be managed using a PPP arrangement
26.	<p><u>The Finance Act, 2016</u></p> <p>Provides for the imposition and alteration of taxes, to give effect to the financial proposals of the Government and to provide for other related matters for the financial year</p>	Operations of facilities will comply with state requirements including tax payment as required by the Finance Act

4.4 Local Governance and Planning Requirements

The relevant legislation reviewed include:

- Local Government (Amendment) Act, 2017;
- The Local Government Act, 2004

No.	Legal Framework and Key Compliance Requirements	Applicability to Proposed Project
27.	<p><u>The Local Government Act, 2004 (Amendment) Act, 2017</u></p> <p>This Act deals with the establishment and operation of local councils around the country to enable meaningful decentralization and devolution of Government functions. It stipulates that a local council shall be the highest political authority in the locality and shall have legislative and executive powers to be exercised in accordance with this Act or any other enactment. It shall be responsible, generally for promoting the development of the locality and the welfare of the people in the locality with the resources at its disposal and with such resources and capacity as it can mobilize from the central government and its agencies, national and international organizations, and the private sector. The local council should initiate and maintain programs for the development of basic infrastructure and provide works and services in the locality. A local council shall cause to be prepared a development plan which shall guide the development of the locality.</p> <p>Many projects are bound to operate within areas controlled by one local council or another. There is also a relationship between the local council and the Chiefdom within which a project operates. Therefore, every project is required to involve local councils in their development work. The schedules to the Local Government Act outline the activities of various MDAs that have been devolved to local councils.</p>	Local governance structures will be useful in project implementation activities such as planning, grievance redress, provision of security etc.

4.5 Public Health, Safety, Security and Social Protection

The reviewed legislation on public health, safety security and social protection includes:

- Public Health Amendment Act, 2014

- Sierra Leone Health Service Commission Act, 2011
- Persons with Disability Act, 2011
- National HIV and AIDS Commission Act, 2011
- National Security and Central Intelligence Act, 2002
- Sexual Offences Act, 2012
- The Domestic Violence Act, 2007

No.	Legal Framework and Key Compliance Requirements	Applicability to Proposed Project
28.	<u>Public Health Amendment Act, 2014</u> This Act provides with respect to matters of public health in Sierra Leone, including, among other things, water supply, drainage, water pollution, sanitation, hygiene and wholesomeness of food, the control of animals, and nuisances. The Act prohibits the sale of food intended for, but unfit, for human consumption and provides with respect to food inspection.	Project construction activities could have impacts on public health. This is addressed in the ESMP
29.	<u>Sierra Leone Health Service Commission Act, 2011</u> This is an Act to provide for the establishment of the Sierra Leone Health Service Commission to assist the Ministry responsible for health in the delivery of affordable, accessible and improved healthcare services to the people of Sierra Leone	The project will rely on available health facilities to access healthcare services when necessary
30.	<u>Persons with Disability Act, 2011</u> Being an Act to establish the National Commission for persons with disability, to prohibit discrimination against persons with disability, achieve equalization of opportunities for persons with disability and to provide for other related matters.	Project human resource and recruitment policies will make provisions for persons with disability
31.	<u>National HIV and AIDS Commission Act, 2011</u> Being an Act to establish the National HIV and AIDS Commission to be making policies for the prevention, management and control of HIV and AIDS, to provide for the treatment, counselling, support and care of persons infected with, affected by or at risk of HIV and AIDS and for other related matters.	Presence of some migrant workers and tourists (at the operation phase) has implications for the spread of diseases including HIV/AIDS
32.	<u>National Security and Central Intelligence Act, 2002</u> The Act, provides for the internal and external security of Sierra Leone, and for other related matters.	Will guide security arrangement during project implementation to prevent crime and conflict
33.	<u>Sexual Offences Act, 2012</u> The Act, inter alia, increases the minimum jail sentence for sexual violations from two years to between five and fifteen years. It defines consent as an agreement by choice with the person having both the freedom and the capacity to make that choice. Persons under the age of 18 years are not capable of giving consent under the Act. Marriage can also not be used as a defence against violations of the Act, effectively prohibiting forced sex in marital relationships. The Act protects children, especially girls, from being abused by teachers, as well as traditional and religious leaders.	Workers will be given contracts that have Codes of Conduct that prohibits sexual harassment and other GBV.
34.	<u>The Domestic Violence Act, 2007</u> The act criminalizes domestic violence, addressing issues of sexual, physical, emotional, psychological and economic violence perpetrated against an individual in a domestic setting. The issues covered under the act are commonly committed against women and children, which were lawful if reasonable before the enactment of the law.	Locals, workers and tourists will be sensitized on domestic violence and the associated punitive measures.

4.6 Environmental Assessment in Sierra Leone

The EPA Act enjoins any proponent or person to register an undertaking with the Agency and obtain an Environmental Permit prior to the commencement of the project. A license is required for the projects whose activities involve or include the following:

- (a) substantial changes in renewable resource use (e.g. conversion of land to agricultural production, forestry or to pasture land, rural development, timber production);
- (b) substantial changes in farming and fisheries practices (e.g. introduction of new crops, large scale mechanization or use of chemicals in agriculture);
- (c) exploitation of hydraulic resources (e.g. dams, drainage and irrigation projects, water basin development, water supply);
- (d) infrastructure (e.g. roads, bridges, airports, harbors, transmission lines, pipelines, railways);
- (e) industrial activities (e.g. metallurgical plants, wood processing plants, chemical plants, power plants, cement plants, refinery and petro-chemical plants, agro-industries).
- (f) extractive industries (e.g. mining, quarrying, extraction of sand, gravel, salt, peat, oil and gas);
- (g) waste management and disposal (e.g. sewerage systems and treatment plants, landfills, treatment plants for household and hazardous waste);
- (h) housing construction and development schemes;
- (i) establishment of places of entertainment, motor repair garages and welding shops;
- (j) importation of second-hand vehicles.

Factors for determining whether a project requires an Environmental Impact Assessment include:

- (a) the environmental impact on the community;
- (b) the location of the project;
- (c) whether the project transforms the locality;
- (d) whether the project has or is likely to have substantial impact on the ecosystem of the locality;
- (e) whether the project results in the diminution of the aesthetic, recreational, scientific, historical, cultural or other environmental quality of the locality;
- (f) whether the project will endanger any species of flora or fauna or the habitat of the flora or fauna;
- (g) the scale of the project;
- (h) the extent of the degradation of the quality of the environment
- (i) whether the project will result in an increase in demand for natural resources in the locality;
- (j) the cumulative impact of the project together with other activities or projects, on the environment.

The processes and procedures involved in the Environmental Assessment are outlined in **Table 4-2** below.

Table 4- 2: Environmental Assessment Procedures in Sierra Leone

<i>Service</i>	<i>Requirements</i>	<i>Service charge</i>	<i>Timeline</i>
Application & Screening	Submit completed forms, project proposals and perimeter coordinates of concession area to Agency.	Proponent is required to submit to the Agency the signed credit advice from the bank as proof of payment	1-7 days
Review of Scoping report	Submission of scoping report by proponent (Mandatory for all project categories)	No service charge	Class A category: 1-2 weeks Class B category 1-7 days Class C category 1-3 days
Public disclosure	Submission of Environmental and Social Impact Assessment report (ESHIA) to include <ul style="list-style-type: none"> • Notices in 2 widely read newspapers and • Publish in 2 issues of the Gazette • Display reports at Environment Protection Agency, National Library and other points 	No service charge – but EPA participation cost to be borne by proponent. All ESHIA studies must be submitted to the Agency within 3 months upon completion of the scoping stage.	Mandatory for class A and B projects. 1 week to 1 month 7-day interval between publications Class C: 1 week
Environmental and Social Impact Assessment report review and approval	<ul style="list-style-type: none"> • Submission of public disclosure report (hard & soft copies) • Board reviews ESHIA report • Notification letter to proponent on Board's • Decision 	No service charge	Class A & B category – within 12 weeks. Class C category - within 6 weeks

Issuance of Environmental Impact Assessment License with Terms and Conditions	<ul style="list-style-type: none"> • Fee computation with Proponent or representative • Invoice provided for License fees and monitoring fees and payment done within 2 weeks • Proponent must submit signed credit advice to Agency prior to issuance of license 	<u>Project Category</u> Class A, B & C: Fee applicable.	<ul style="list-style-type: none"> • Computation of fees - 1 day • Submission of signed credit advice – within 2 weeks
Monitoring and Inspection	<ul style="list-style-type: none"> • All projects required to acquire an EIS License. • Agency shall conduct quarterly monitoring to all EIA License projects. • Agency shall conduct annual Environmental audit on proponent's operations • Quarterly reports and audit reports to be submitted by proponent to Agency. • Review of reports: Quarterly and Annual. 	Cost included in EIA Fees	Quarterly and spot checks <ul style="list-style-type: none"> • Proponent to submit quarterly report 1 week prior to end of quarter. • Audit (annual) reports must be submitted to Agency not later than 2 weeks prior to expiration of EIC License. • Review of audit reports to be done within 1 week upon receipt by the Agency. • Review of quarterly reports to be done within 3 days upon receipt by the Agency
Renewal of License	Application for renewal, timely submission of quarterly and annual reports	Based on environmental footprints and compliance with terms and conditions, management plans.	EIA license renewal process must commence 3 months prior to expiration

4.7 Institutional Context

The Ministry of Finance

Sierra Leone Ministry of Finance is a ministerial department of the Government of Sierra Leone and is in charge of managing the revenue and finances of the Sierra Leone government. The ministry implements the Sierra Leone government economic policies and public financial management and will be the lead agency in the implementation of this project

Ministry of Trade and Industry

The Ministry has the sole mandate of developing policies and programs to stimulate local and export trade as well as to enhance private sector investment, industrial and economic growth.

Its core functions include:

- Coordinating and spearheading the implementation of the National Trade Policy
- Provide policy guidance and supervision to its agencies/departments for efficient and effective service delivery to the citizens of the Sierra Leone
- Coordinate the development of Trade Support Program that reflects the policy objectives of the Government
- Coordinate the formulation of Annual Implementation Plans for the Trade Support Program, reflecting appropriate sequencing of implementation of Programs and ensuring that Trade Policy remains an integral component of national development plans.
- Liaise with other Ministries, Departments and Agencies of Government to provide an enabling environment for the Private Sector to thrive.

This is the supervising ministry for SMEs and therefore at the forefront of ensuring sound policies to engender their growth and prosperity. Their role in the SLEDP as an implementing ministry will include responsibility for specific project activities such as facilitating the operations of the SMEs and promoting entrepreneurship initiatives.

Ministry of Tourism and Cultural Affairs

The Ministry of Tourism and Cultural Affairs (MoTCA) was established in 1972. It is responsible for the sustainable development of tourism and culture in the country. The Ministry has three (3) divisions, namely; Administrative Division, Tourism Division and Cultural Division.

The Administrative Division, apart from its day-to-day administrative functions, has been given technical support to the Tourism Division to execute its divisional mandate, as well as exercising oversight responsibility over the National Tourist Boards (NTB).

The Tourism Division, described as the 'hub' of the Ministry is responsible for the formulation of strategic tourism policies, with oversight responsibility for the national Tourist Board.

The Cultural Division has the responsibility of formulating strategic cultural policies, plans and programs, as well as over-seeing the activities of five (5) implementing agencies whose activities relate to cultural issues; Monuments and Relics Commission, Sierra Leone National Museum, Sierra Leone Railway Museum, The National Dance Troupe, and Bunce Island: The Island.

This ministry is responsible for tourism promotion in the country and has the mandate to guarantee the growth of the sector. The ministry's input is vital to ensure consistency with national aspirations.

For this project, the MCTA is an implementing ministry with responsibility to directly supervise the design and upgrade of tourist sites.

Ministry of Fisheries and Marine Resources (MFMR)

The Ministry has as its primary mandate the provision of cheap source of protein for the majority of Sierra Leoneans, thus contributing towards the improvement of national nutrition and food security. The coordination and management of the rich and diverse aquatic resource (marine, freshwater) are the responsibility of the MFMR which is at the moment also responsible for the Monitoring Control and Surveillance of our territorial waters.

The fishery of Sierra Leone can from a management perspective be divided into two sections: Artisanal and Industrial. Embedded in the policy and strategy is the conservation and enhancement of environmental quality and sustainable management of rich biodiversity of wetlands, lakes, rivers, beaches, estuaries, bays, lagoons and inlands. The FAO code of Conduct for responsible fishing has also been adopted.

Ministry of Agriculture, Forestry and Food Security (MOAFFS)

The Ministry is charged with the overall responsibility for the management of the natural terrestrial ecosystem resources and food production. The three Technical Divisions of the MOAFFS are Agriculture - responsible for crop husbandry and protection programmes, Livestock - responsible for animal health and animal production and Forestry – responsible management of forestry resources including reserved resources such as the Western Area National Park in the project area.

Ministry of Lands, Country Planning and Environment

The Ministry is responsible for addressing land acquisition and transfers, land ownership and use, national development in a planning capacity and to provide advisory services to the public on land matters and is also responsible for physical planning and management of the forestry resources.

The Ministry of Land is empowered to carry out all land management and two important functions it performs are administration of all state and public lands and the acquisition of property and the payment of compensation. Any land acquisition or related activities will require the assistance of this Ministry.

National Tourist Board

The National Tourist Board (NTB) is the main implementing agency of the Ministry of Tourism and Cultural Affairs. It was established by the development of the Tourism Act 1990 and became operational in November, 1991. The NTB functions are described primarily as follows:

- Marketing tourism internationally, including participation in fairs and exhibitions,

- Marketing of the tourism potentials to attract foreign investors,
- Conducting research on tourism trends and market segments,
- Issuing of Licenses to Tourist Establishments,
- Promoting collaboration between the public and private sectors, and
- Providing technical and operational advice to boost tourism investment.

The NTB will be at the forefront of the selection of project sites and the design and upgrade of tourist sites.

Environment Protection Agency

The broad mandate of the Agency is to effectively protect and manage the environment; monitor and regulate companies with EIA Licenses and illegal operations that have an impact on the environment and advise the Minister of Environment on all environmental matters. Among others, the Agency has responsibilities to ensure compliance and enforcement of environmental impact assessment procedures and pursue environmental education for the creation of public awareness raising of the environment and its importance to the economic and social life of Sierra Leone.

Small and Medium Scale Enterprises Development Agency (SMEDA)

The Agency was recently established by an Act of Parliament in 2016 and became functional in 2017 as the government agency responsible for coordinating SME activities. Its core mandate is to promote a conducive business environment including an efficient and effective service delivery network in order to empower and develop small and medium scale enterprises for growth, productivity and competitiveness.

The Agency will provide inputs for the identification and selection of SMEs to benefit from the project.

4.8 World Bank Environmental and Social Operational Policies or Safeguard Policies

The World Bank (WB) has published Environmental and Social Operational Policies (OPs) to guide the safe development of projects it is funding. The triggered policies are described in the **Table 4-3** below. The WB requirements are not inconsistent with the national requirements and therefore no implementation conflicts are foreseen.

Table 4- 3: Summary of World Bank OPs

OP/BP	Safeguard	Summary of core requirements	Relevance	Remarks or recommendation for proposed project
4.01	Environmental Assessment	Help ensure the environmental and social soundness and sustainability of investment projects. Support integration of environmental and social aspects of projects in the decision-making process.	Triggered	The proposed project is classified as Category B because its potential adverse environmental impacts on the biophysical and socio-cultural environment is minimal, site-specific, mostly reversible with designed mitigation measures.
4.04	Natural Habitats	Promote environmentally sustainable development by supporting the protection, conservation, maintenance, and rehabilitation of natural habitats and their functions.	Not triggered	Project implementation will be carried out in built areas and not expected to affect natural habitats
4.09	Pest Management	Minimize and manage the environmental and health risks associated with pesticide use and promote and support safe, effective, and environmentally sound pest management.	Not triggered	The project implementation will not include pesticide application.
4.10	Indigenous Peoples	Design and implement projects in a way that fosters full respect for indigenous peoples' dignity, human rights, and cultural uniqueness and so that they (1) receive culturally compatible social and economic benefits, and (2) do not suffer adverse effects during the development process.	Not triggered	There are no indigenous people on the project site or within the project communities of influence
4.11	Physical Cultural Resources (PCR)	Assist in preserving PCR and in avoiding their destruction or damage. PCR includes resources of archaeological, paleontological, historical, architectural, religious (including graveyards and burial sites), aesthetic, or other cultural significance.	Triggered	There is no cultural site of historical, archaeological, religious, or other cultural significance in the project's physical area of influence. However, there could be chance find of archaeological material.
4.12	Involuntary Resettlement	Avoid or minimize involuntary resettlement and, where this is not feasible, assist displaced persons in improving or at least restoring their livelihoods and standards of living in	Triggered	There is no land acquisition as project will mostly upgrade existing facilities. However, some petty traders along the access roads to be upgraded

OP/BP	Safeguard	Summary of core requirements	Relevance	Remarks or recommendation for proposed project
		real terms relative to pre-displacement levels or to levels prevailing prior to the beginning of project implementation, whichever is higher.		could be temporarily displaced to make way for road works.
4.36	Forests	Realize the potential of forests to reduce poverty in a sustainable manner, integrate forests effectively into sustainable economic development, and protect the vital local and global environmental services and values of forests.	Not triggered	Project implementation will not affect any forests as it will be implemented in a built-up area.
7.50	Projects on International Waterways	Ensure that the international aspects of a project on an international waterway are dealt with at the earliest possible opportunity and that riparians are notified of the proposed project and its details.	Not triggered	The project is not on any international waterway.
7.60	Projects in Disputed Areas	Ensure that other claimants to the disputed area have no objection to the project, or that the special circumstances of the case warrant the Bank's support of the project notwithstanding any objection or lack of approval by the other claimants.	Not triggered	The project area is not disputed.

5.0 ENVIRONMENTAL AND SOCIAL BASELINE CONDITIONS

Baseline conditions give the existing status of the environment in the area before the commencement of the proposed project. The information serves the purpose of a base reference against which the changes due to the implementation of the project are measured. The baseline conditions of the proposed project area are discussed in this chapter.

5.1 Project Location

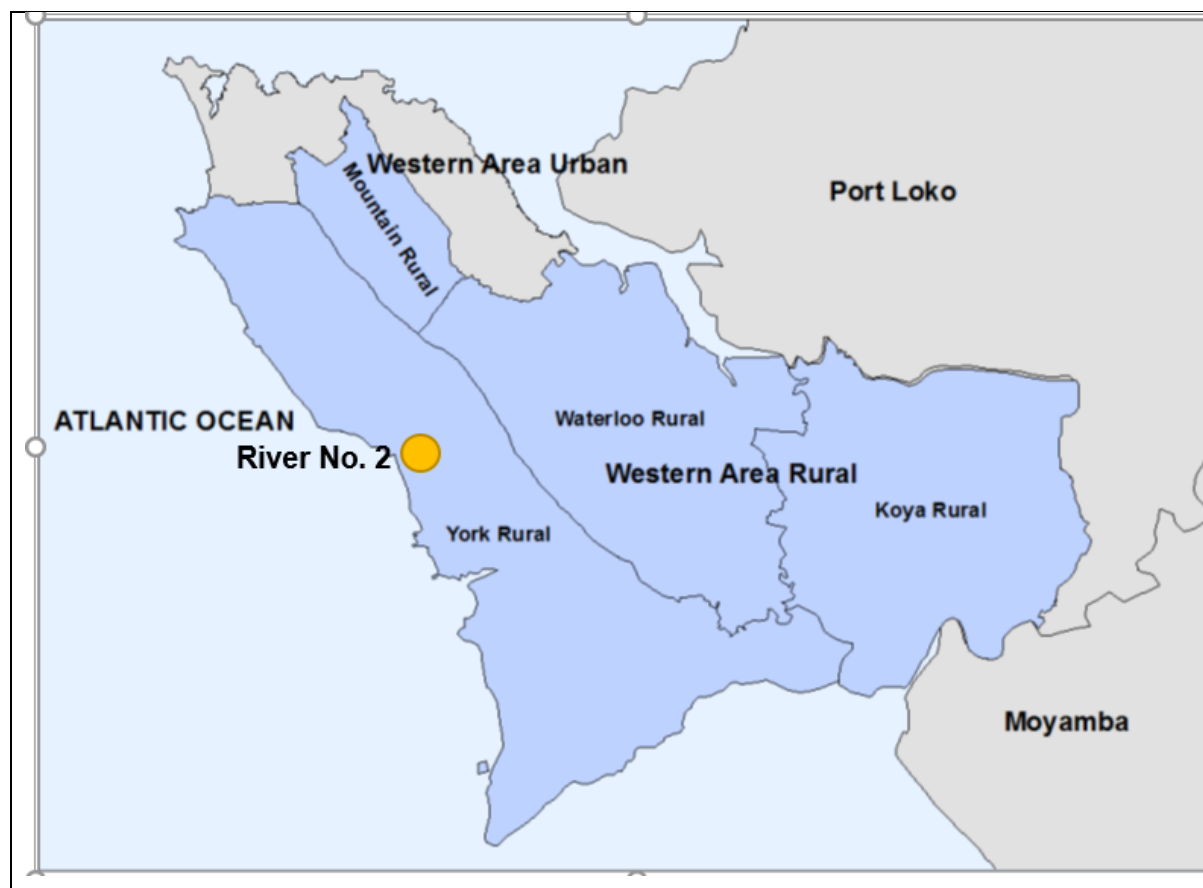
The proposed project is located in the Western Area Rural District of the Western Area which is one of five principal divisions of Sierra Leone. The Western Area comprises the oldest city and national capital Freetown and located around the peninsula between latitude 8°18'41.39 N and longitude - 13°2'8.5 W (8.3115° N, 13.0357° W). It is bordered to the northeast by the North-Western Province, to the southeast by the Southern Province and to the south by the Atlantic Ocean (**Figure 5-1**).



Source: <https://www.mappr.co/counties/sierra-leone-provinces/>

Figure 5- 1: Map of Sierra Leone showing the Western Area

The Western Area Rural District is one of the sixteen districts of Sierra Leone and located mostly around the peninsula in the Western Area of Sierra Leone. The district capital and largest city is Waterloo. Other major towns in the district include Newton, Benguema, Leicester, Tombo and Regent. It lies between latitude 8° 18' 26.8"N and longitude 13° 5' 15.8"W. The district is bordered by the country's capital Freetown to the east and west; Port Loko District to the north; and the Atlantic Ocean to the south and east (**Figure 5-2**).



Source: Western Area Rural District Profile, 2015

Figure 5- 2: Map of the Western Area Rural District of Sierra Leone showing the project location (marked)

5.2 Physical Environment

5.2.1 *Topography and Relief*

The area consists of three roughly parallel ranges of highlands that are narrow, but extend about 30 km south of Freetown. The hills and mountains in the highlands rise steeply to heights of between 1,000 and 1,500 m above mean sea level and continue southwards as a once-protected forest highland and are now threatened by encroachment of uncontrolled urban developments. These developments

have caused significant increase in storm water runoff and erosion resulting in pronounced changes in natural channels. Furthermore, the cutting down of forests on the hillsides is causing soil erosion and increased landslides and flooding.

5.2.2 *Geology and Soils*

The Freetown peninsula has coastal plain formation near west periphery and mountainous formation in the southeast portion. Coastal plain area is formed with yellow-brown sandy soil. Uplifted coastal terraces are formed with shallow soils over laterite sheet. Mountainous portion has dissected hills formed on early Mesozoic gabbro. Shallow soil layer is formed over it with pockets of deeper loams to clays. **Figure 5-3** shows distribution of soil formation in coastal plain (code 3, 4 and 8) and mountainous regions (code 39). (UNDP & FAO 1980).

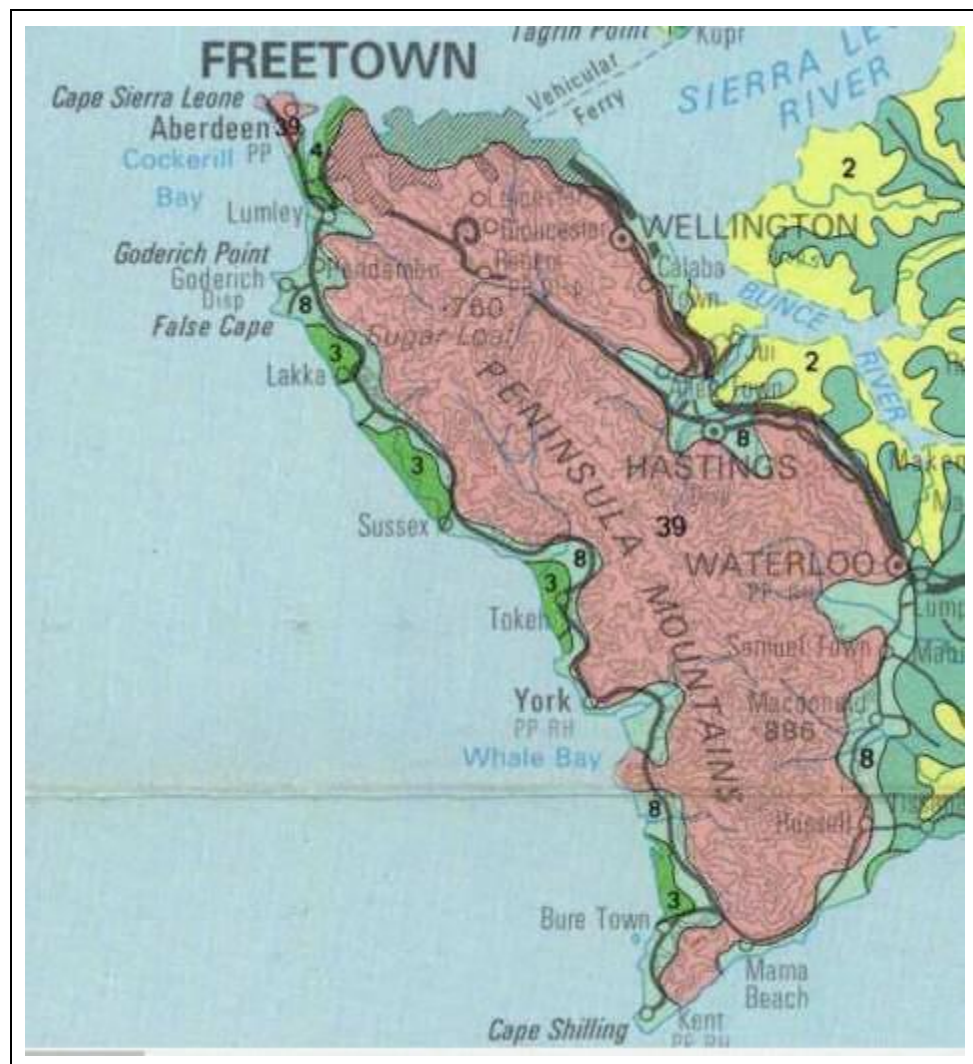


Figure 5- 3: Map of the Soil formation type in Freetown (UNDP & FAO 1980).

5.2.3 *Drainage*

The western area catchment comprises both Western Area rural and urban and hosts more than fifty water catchments. Most of the water sources are springs flowing from the mountains within the forests through weathered Gabbroic rocks and valleys to the low-lying areas spanning an area of about 22km from Kaningo to Thunder Hill in the west and east respectively.

However, about half of the waterbodies in the catchment area have been impacted or destroyed by huge forms of encroachment. This situation is aggravated by climate-related shocks and risks such as; prolonged dry spells, flooding and flash floods which are increasing in both intensity and frequency. The Guma Valley Water Company, which is the main water supply company, is therefore usually challenged with a low level of water in their dams.

Some of the water bodies include Bluewater, Congo River/dam, Guma reservoir/dam, River No. 2, Big Water, Orogu River, Deep Eye Water etc. The project community is drained by the River No. 2 and a forest spring that has a weir constructed on it to supply the community water. The spring is seasonal and dries up in the dry season.

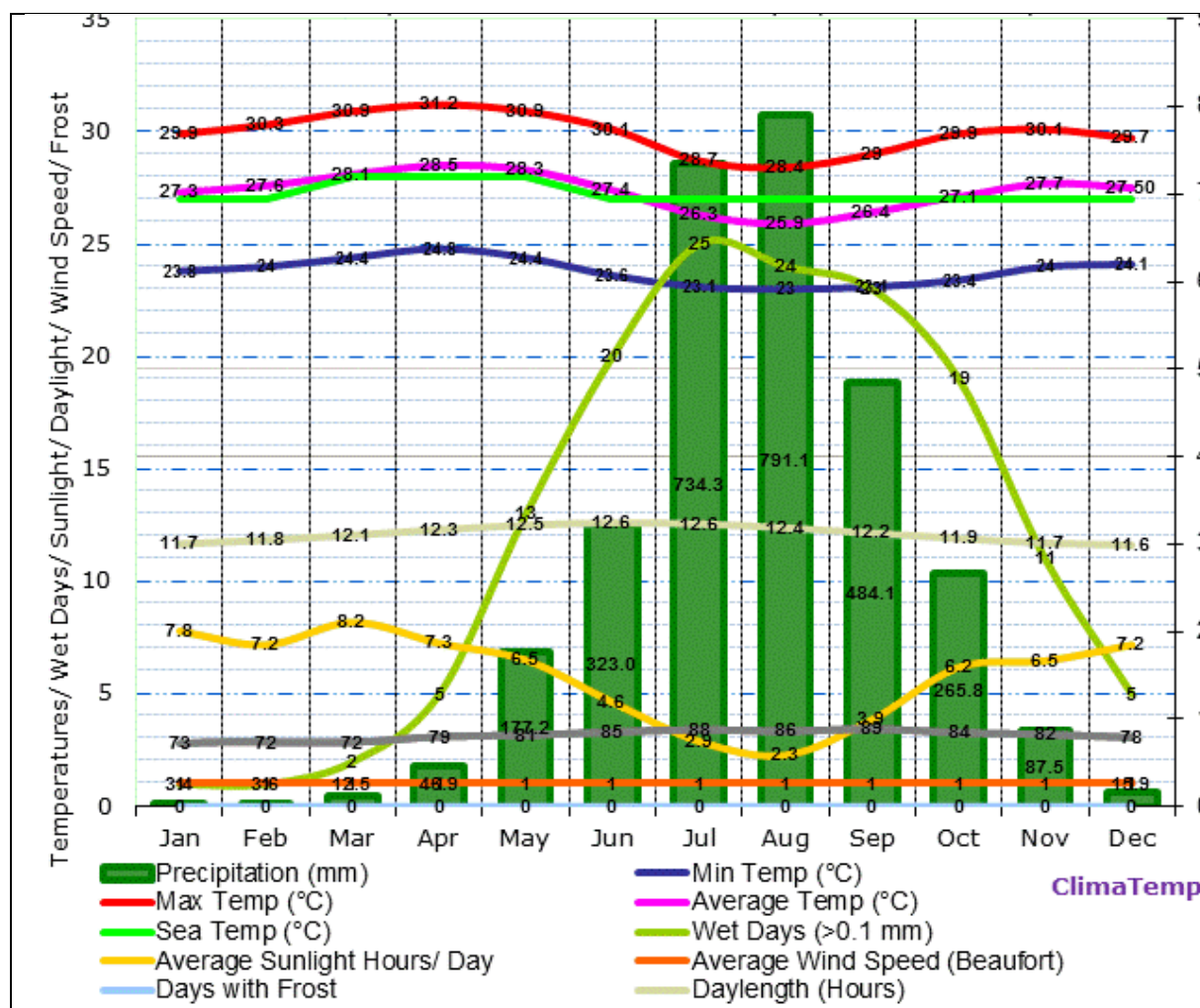


Source: Western Area Peninsula Water Fund Report, 2021

Figure 5- 4: Drainage map of the Western Area Catchment in Sierra Leone

5.2.4 Climate

The area has a tropical monsoon climate which is wetter than the more typical West African tropical wet and dry climate. There are two pronounced seasons comprising an extended rainy season from May to November, which brings torrential downpours with over 4,000 mm annual precipitation and a dry season from December to March (Figure 5-5).



Source: ClimaTemps.com

Figure 5- 5: Climate data for the Western Area Rural District

5.2.5 Environmental Quality

Air Quality

The Particulate Matter (PM_{2.5} & PM₁₀) concentrations monitored at the River No.2 site of 12.38 µg/m³ and 23.10 µg/m³ respectively were found to be within the Sierra Leone Standard (SLS 42:2014)

permissible values of 25 and 50 ($\mu\text{g}/\text{m}^3$). The monitoring team did not observe much activities in the communities that could have significant influence on the air quality at the time of the assessment.

Ambient Noise

The daytime ambient noise levels (LEQ) at the River No.2 project site and the nearest residence were 55.0 and 66.1 dB(A), respectively. The ambient noise levels (LEQ values) recorded were compared to their respective Sierra Leone Standards (SLS 83:2019) and IFC guideline values of 55dB for SLS day, 55dB for IFC Day, 45dB for SLS Night and 45 dB for IFC night. The daytime ambient noise levels(dBA) for the nearest residence was above the SLS and IFC LAEQ guideline value this was mainly because of sounds from the engines of cars passing, intermittent chatter from pedestrians passing by during the time of assessment.

The nighttime ambient noise levels (LA_{EQ}) recorded were 43.3 dB (A) at the River No.2 project site and 41.2 dB(A) at the nearest residence respectively. The nighttime ambient noise level for River No.2 project site and the nearest residence were within the Noise Level Guidelines for SLS and IFC (**Annex 1**).

Surface water quality

The spring in the River No.2 community (about 1km away from the project site), which serves as source of water for the River No. 2 community for drinking, washing and other domestic activities was tested on the 20th October, 2021 at 11:30am. Parameters including Temperature, pH, TDS and Conductivity were measured in-situ using a field kit.

From the in-situ analysis, the mean pH, conductivity, TDS and temperature values were 7.16, 15.78 $\mu\text{S}/\text{cm}$, 7.22mg/l, and 25.0°C respectively. The parameters analyzed were below the WHO drinking water guidelines, showing that the quality of the spring is generally good (**Annex 1**).

5.3 Biological Environment

5.3.1 Vegetation

The vegetation in the area is a combination of secondary forest and forest regrowth which was formerly closed high forest. The vegetation is at various stages of regrowth from abandoned farmbrush to secondary forest with trees up to 10m tall. The farmbrush is generally overgrown by shrubby or suffrutescent weeds. This develops into a thicket with numerous woody climbers. Scattered large forest and tree-crop species left standing after clearing, are a common feature.

Typical thicket species are *Lantana camara*, *Cissus afzelli*, *Manniophytum fulvum*, *Abrus precatorius*, *Smilax krausiana*, *Dioscorea bulbifera*, *Clematis grandiflora*, *Adenia lobate* and *Scleria bovinii*. Eventually, pioneer secondary forest trees such as *Dichrostachys glomerata*, *Harungana madagascariensis*, *Nauclea latifolia*, *Alchornea cordifolia* and *Trema guineensis* replace the farmbrush and thicket. *Elaeis guineensis* is a common tree-crop. There is no species of conservation concern as all are listed as Least Concern (LC) species on the IUCN Red List.

In River No. 2, the vegetative cover is rapidly being depleted as locals depend on fuelwood and charcoal as the main source of energy. Due to the area's proximity to the capital, there is increased pressure from developers of residential facilities on the vegetation. Also, activities of stone miners are degrading the forests in the area (**Plate 5-1**).



Plate 5- 1: Vegetation of the area and deforestation issues

5.3.2 *Fauna*

The area provides important habitat for some 400 bird and 50 mammal species, including critically endangered species such as the Western Chimpanzee (*Pan troglodytes verus*), the endangered Jentink's Duiker (*Cephalophus jentinki*) also known as gidi-gidi in Krio and the vulnerable iconic African bird *Picathartes gymnocephalis*. Other animals in the area are monkeys, snakes, butterflies and tropical fish. Deforestation within the WAPNP and urbanization of the land surrounding it shrinks the habitat of these species, increases the potential for human-wildlife conflict, and makes it easier for poachers to access the Park. In the northern sections of the Park, poachers frequently blanket the forest floor with snares, trapping and killing everything that falls into them. At the project site, only animals such as butterflies, snakes and birds are found.



Plate 5- 2: Some mammal and bird species in the project area

5.4 Socio-Economic Environment

5.4.1 Governance Structure

Sierra Leone is a constitutional parliamentary republic with three spheres of government: national government, local councils and chiefdom councils. At the district level, the local councils and chiefdoms govern with powers, from the Local Government Act, 2004, to raise revenue including via local taxes, property rates, licences, fees and charges, and to receive mining revenues, interest and dividends etc.

Governance at the district level is the responsibility of the local council, led by a chairperson, councillors, district development committees, village heads (headmen), village development committees and tribal heads.

At the local community level, the headmen lead and is assisted by a village development committee and tribal heads for respective tribes within the community. The tribal heads are responsible for resolution of conflicts mostly spiritual among members of their respective tribes.

5.4.2 Demography

The district has a total population of 444,270 comprising 49.8% males and 50.2% females. This is about 6.26% of the national population (**Table 5-1**) with an inter censal growth rate of 8.9 % per annum. The youth population is 43.2% with persons living with disability constituting 0.9% of the total population. The district poverty level is 51% of the total population. Despite 5 out of every 10 persons being poor, the district has one of the lowest poverty rates and comes only behind the Western Area Urban District with 35%. The three highest rates of deprivation are inadequate electricity, decent cooking energy and good sanitation. The total number of people who are food insecure in Western Rural Area is estimated at 53,116 and the percentage of households who are food insecure (severe and moderate) is 22.0%. However, the prevalence of food insecurity remains below the national

average. The district has a population density of 724.7 persons per square kilometre and 90.2% of the population living in urban communities making it one of the most urbanized in the country (2015 Population and Housing Census, Western Area Rural District Profile).

Table 5- 1: District population data

Area	Ward	Population
Koya Rural	Ward	70,423
Mountain Rural	Ward	30,488
Waterloo Rural	Ward	213,778
York Rural	Ward	129,581
Sierra Leone	Republic	7,092,113

The River No. 2 community has about 7,000 inhabitants comprising 70% females and 30% males. The average household size is five (5) with 60% Muslims and 40% Christians.

5.4.3 Education and Literacy

The district is the second most literate in the country with only 29.2% of the population without any form of education. This is lower than the national average of 41.9% of persons with no education (**Table 5-2**). Currently, there are over 540 schools opened in the Western Rural district. Although the number of children in primary education has greatly increased, implementation of the compulsory education requirement has suffered a number of setbacks including a shortage of schools and teachers, and the outbreak of Ebola and COVID-19 (2015 Population and Housing Census: Thematic Report on Education and Literacy).

Table 5- 2: Percentage of the population 6 years and older by highest educational level attained

Education	Western Area Rural	National Average
No education	29.2	41.9
Kindergarten	3.2	2.4
Primary	26.8	26.1
JSS	17.0	13.3
SSS	17.0	11.3
Vocational/Technical/Nursing/Teacher	3.1	2.3
Higher (First Degree)	2.1	1.3
Tertiary (Post-graduate)	0.7	0.4
Koranic	0.5	0.9
Other	0.2	0.1

Source: Statistics Sierra Leone, 2015 Population and Housing Census

The River No. 2 community has a primary school with a vocational section for training women dropouts. Also, a modern school with a computer laboratory is under construction.

5.4.4 *Economic Activities*

The main economic activities in the area are agriculture, fishing, trading, stone and sand mining. A few of the population have salaried work, as well as unskilled and skilled work such as dressmaking, carpentry, masonry etc. There are more women in cash earning employment than men. There is some gender stereo-typing as more women are engaged in agriculture, service shop market sales and elementary occupations than men, but are less than half as likely as men to be in more professional roles such as technical and associate professionals and senior officials and managers.

This rural zone is composed of Koya, Mountain, Waterloo and York wards in the Western Area Rural district. The dense population responds to the high demand for both commodities and casual labor. The zone contains a long shoreline as well as an extensive hinterland marked by the high Peninsula Mountain ridge, which has the effect of concentrating the population on the lower hills and near the shore. Agricultural land is at a premium, but the value of the limited family plots is greatly enhanced by the production of vegetables and fruits for the urban market, which is helped by very high rainfall. Poultry, small ruminants and pigs are kept in small numbers, but again their value is enhanced by the prices supported by the urban demand.

Around half of households' food comes from the market rather than their fields, and the cash for this and other costs of life comes not only from production as above and the sale of fish, but more so from urban-linked activities: petty trade, unskilled, skilled (local soap making, tailoring, hairdressing, etc.) and salaried work, some remittances, and begging by the poorest. Some households generate income from sand, stone and granite mining for the construction industry. In fact, a substantial minority of residents are not involved in agriculture – truly a 'peri-urban' picture, which is further reinforced by the incidence of theft of vegetables and livestock.

Locally, the mainstay of persons within the community is fishing. Other economic activities include fish mongering, stone mining, provision of tourism services and petty trading.

Tourism is also an activity on which some people rely. Vibrant groups of small, local entrepreneurs and community organizations currently serve the tourism market within the district. Facilities such as fishing lodges, Eco parks, Eco-village, hotels and guesthouses are run by local operators. Tourism activities such as catamaran tours, fishing expeditions, traditional and cultural experience tours, etc. employs locals as trained guides, industry staff, parking attendants. Tourism also provide livelihood to locals through associated businesses such as restaurants, drinking bars, and car hiring services.



Plate 5- 3: Economic activities in the River No. 2 area

5.4.5 Access to Basic Services

Energy

The area has quite a high electricity access rate with 67.0% of households connected to the national grid. Other sources of power or lighting include generator, solar and battery/rechargeable light with 1.2%, 0.6% and 28.8% of the population respectively depending on these sources for lighting. Only 5.1% of the population has access to clean fuel and the large dependence on firewood and charcoal has resulted in an increasing depletion of the vegetation cover in the area.

Water

Majority of the population (about 80.0%) in the district has access to improved drinking water. However, within the project community, residents depend on a spring, about 1km away from the project site (**Plate 5-2**). The quality of water is generally good (**Annex 1**) it is seasonal in nature i.e. dries up in the dry season. Residents therefore have to depend on an overhead reservoir or find alternative sources of water.

Locally, there are water supply challenges as there is limited access to pipe-borne water despite the community's proximity to the Guma Valley Dam, the national water company. The community

therefore depends on a community-managed dam, River No. 2 dam. The dam's water supply is seasonal as it dries up in the dry season. As an alternative, residents have dug wells for water supply.



Plate 5- 4: Water supply situation at River No. 2

5.4.6 Health

Life expectancy at birth is 63.2 with a maternal mortality per 100,000 live births of 542. Under-five mortality per 1,000 live births stand at 152. The prevalence of HIV in adults is 6.7%, prevalence of malaria in under-fives is 6.3% and children under years with full immunization status is 53.2%.

The District Health Management Team (DHMT) has a total of 317 registered staff medical and non-medical staff working in 12 Community Health Centers (CHC), 20 Community Health Posts (CHP), 21 Maternal Child Health Posts (MCHP) and 1 hospital. Traditional medicine forms part of the primary health care system in the area.

Locally, there is no health facility so residents depend on pharmacies in neighboring communities. Serious cases are referred to the Sussex Community health facility which is about 4km away.

5.4.7 Gender

Sexual and Gender Based Violence (SGBV) and denial of women's rights still remain a concern in Sierra Leone. As a highly patriarchal society coming out of civil war, institutionalized gender inequalities are deepened by discriminatory customs and traditional practices, particularly with relation to child marriage, property rights, sexual offences, female genital mutilation. For instance, the age at first marriage for most women is 19.8 with majority giving birth before age 20. Also, marriage in young persons between ages 15 and 19 is higher in females (11.4%) than in males (0.4%).

Factors such as high levels of illiteracy, poverty and economic insecurity prevent women from enjoying a lot of their internationally recognized rights and contributes to women's vulnerability to GBV. The

ability to address these gender inequalities is further reduced by the exclusion of women from decision making, both at the local and national level.

According to the 2019 Sierra Leone Demographic and Health Survey (SLDHS), only 57% of women participate in decision-making even at home with just 37.0% having control over their own earnings. This figure further decreases at the national level. An estimated 61% of women between the ages of 15 and 49 experience domestic violence in the form of physical, sexual or emotional violence with 30% sustaining various degrees of injuries. The perpetrators are mostly husbands/partners (52.7%), mothers/stepmothers (34.9%), fathers/stepfathers (26.6%), sisters/brothers (14.5%), other relatives (13.8%), and teachers (8.0%). Interestingly, experience of violence is more common among women who are employed for cash (66.0%) than women who are employed but do not earn cash or the unemployed.

Only 40.0% of victims of abuse seek help as about half (49.0%) of women agree to wife beating. Sources of help for victims include; own family (81.0%), husband/partner's family (37.0%), neighbors (20.0%), friends (17.0%), religious leaders (10.0%), police (5.0%), social work organization (0.2%), lawyer (0.3%) and others.

Female Genital Cutting (FGC) or circumcision is pervasive in societies as about 71.0% of women are circumcised before the age of 15. Circumcision is higher in Muslims (87.0%) than Christians (69.0%). It is also higher in rural areas (89.0%) than urban areas (76.0%).

In the project district, the Western Area Rural District, the trend is similar with only 27.9% of women having control over their own earnings and 51.8% agreeing to spousal violence. Physical violence accounts for 45.9% of spousal violence cases with sexual violence accounting for only 8.0%. Of spousal violence victims, 39.9% sought help, 21.3% never sought help but told someone, and 38.8% never sought help or talked about their experience. Despite being one of the districts with the least cases of FGC, prevalence rate is still high (79.0%) and is only better in the Western Area Urban District (74.0%) and Bo District (65.0%).

Access to critical GBV service providers including healthcare, psychosocial support and legal assistance is limited so GBV cases are either not reported or they are handled by community leadership. However, organizations like the UNFPA are raising awareness on relevant legislation involving gender-based violence, support to access free legal counselling/representation, and access to medical care for the victims and survivors of gender-based violence.

5.4.8 Land Ownership/Tenure

Land can be owned by individuals (private lands) or the state (state lands). For individuals, land can be acquired through purchase, lease, allocation, inheritance, gift, clearing, or adverse possession. Citizens can buy and sell freehold land in the Western Area, and there are no restrictions on the sale of land or land leases. However, the Non-Citizens (Interest in Lands) Act of 1966 prohibits non-citizens from purchasing, receiving in exchange for, or receiving as a gift any freehold land in the Western Area.

By law, the government can lease state land to foreign investors for commercial and industrial use so foreign investors are frequently encouraged by the government to lease land in the Western Area.

6.0 POTENTIAL ENVIRONMENTAL AND SOCIAL ISSUES AND IMPACTS

6.1 Project Area of Influence

This ESIA gives an identification, qualitative assessment and classification of potential environmental and social impacts and their respective management options based on the general project design concepts. The Enhancing River No.2 Beach Experience project will have positive and potential negative social, economic and environmental impacts at different levels.

6.2 Geographical area of influence

The immediate geographical area of influence will be the River No. 2 community, the river estuary and the sea as shown in **Figure 6-1** below. However, project activities especially at the construction phase could, to a limited extent, reach neighbouring communities such as Sussex, Tokeh, and York that are 3.9km, 2.6km, and 5.4km respectively away from the project site.

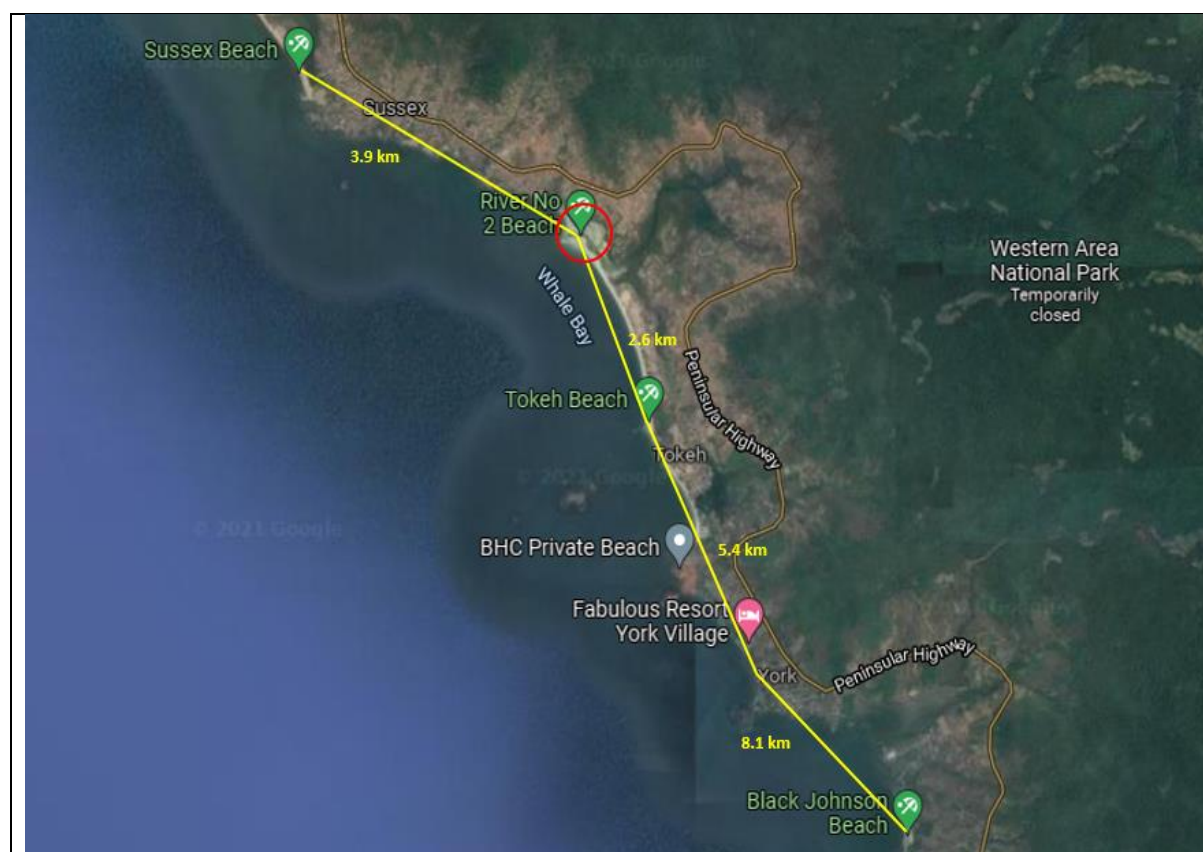


Figure 6- 1: River No. 2 beach project geographical area of influence

Also, Black Johnson beach which is about 8.1km away from River No. 2 is of interest as the establishment of a proposed fishery bonded industrial park (fishing harbor complex) could have some remote influence on the River No. 2 project and community. The fishing harbour complex comprises berthing and transshipment area, ship building and repair area, fishery product processing area, fishery experimental area, aquatic product trading area, residential service area, and a reserved development area.

6.3 Environmentally sensitive areas to be influenced

Assessments conducted indicate that no environmentally sensitive areas are likely to be affected by the project except some impact on the river estuary and the sea i.e. pollution from sediment transport into these water bodies. Also, rehabilitation of the weir could lead to pollution of the water.

Introduction of complementary products such as snorkelling and forest nature trails could affect the forest nearby which hosts waterfalls, tropical animals such as monkeys, chimps, snakes, the iconic African bird *Picathartes gymnocephalis*, butterflies and tropical fish.

However, implementation of the proposed Black Johnson fishing harbour project could adversely affect the marine environment as dredging activities will lead to changes in the location of wave breaking and modification of wave field through refraction and diffraction i.e. shore sediment transport and shoreline modification. It is understood that the area between River No. 2 and Turtle Islands (about 80km or 44nm), is a transition stop for migrating and breeding whales and dolphins.

6.4 Community influence and vulnerable groups

The community within the immediate vicinity of the proposed project site is the River No. 2 community. The construction of the access road to the beach will affect the community mostly through dust and noise generation. Also, there would be restricted access to the beach especially during construction and this could inconvenience revellers i.e. both local and foreign. Economic activity could be disrupted especially during construction e.g. renovation of the handicraft market would require temporary disruption of economic activity.

Albeit remote, potential areas of conflict between the River No. 2 project and the Black Johnson fishing harbour project include:

- Recreational activities and commercial fishing safety concerns
- Artisanal fishing gear fouling commercial vessel propellers
- Discharge of pollutants by fishing vessels into water making swimming unpleasant and unhealthy
- Loss of public access to areas otherwise unrestricted
- Traffic impacts from increased vehicular movement on the Peninsular road which is the common access

Vulnerable groups are those at risk of becoming more vulnerable due to impacts from project implementation. These vulnerable people include women and girls who are vulnerable to gender-based violence including discrimination in employment, sexual harassment, violence, teenage pregnancy and forced marriage (**see Section 5.4.7**). This is because tourism brings in people who often have greater access to money and few social ties to the community. This can increase risks of sexual exploitation and transactional sexual relationships with women and girls, considering the high levels of poverty and vulnerability in the project area. Issues such as gender-based violence, discrimination, child labour among others will be minimized by mitigation measures proposed in this report.

6.5 Project Activities of Environmental and Social Concern

6.5.1 Preparatory Phase Activities

Preliminary activities to be carried out prior to the implementation of the proposed project include:

- Survey and site selection;
- Project feasibility studies and Geotechnical assessments;
- Preparation of Environmental and Social Impact Assessment (ESIA);
- Permit and license acquisition;
- Material sourcing arrangements/contracts; and
- Mobilisation of construction staff.

6.5.2 Construction Phase Activities

Construction phase activities include among others:

- Mobilisation and transportation of equipment to project site;
- Upgrading of access road and installation of appropriate signage;
- Construction of parking bays;
- Renovation of existing handicraft market;
- Renovation of existing kitchen;
- Construction of visitors' toilets and facilities;
- Construction of staff toilets and facilities;
- Installation of an RO water system;
- Connection to utilities such as electricity, water and telecommunications network; and
- Construction of waste treatment system.

6.5.3 Operation Phase Activities

The main operation phase activities will be:

- Maintenance and management of project facilities;
- Disposal of waste from operations; and
- Traffic management.

6.5.4 Decommissioning Phase Activities

The main activities will be:

- Disconnection of utility services to temporary structures;
- Demolition/dismantling of temporary structures; and
- Waste management (collection and disposal).

6.6 Criteria of Impact Evaluation

6.6.1 *Duration of the Impact*

- A temporary impact can last days, weeks or months, but must be associated with the notion of reversibility.
- A permanent impact is often irreversible. It is observed permanently or may last for a very long term.

6.6.2 *Extent of the Impact*

- The extent is regional if an impact on a component is felt over a vast territory or affects a large portion of its population.
- The extent is local if the impact is felt on a limited portion of the zone of study or by a small group of its population.
- The extent is site-specific if the impact is felt in a small and well-defined space or by only some individuals.

6.6.3 *Intensity of the Impact*

- The intensity of an impact is qualified as strong when it is linked to very significant modifications of a component.
- An impact is considered of average intensity when it generates perceptible disturbance in the use of a component or of its characteristics, but not in a way to reduce them completely and irreversibly.
- A weak intensity is associated with an impact generating only weak modifications to the component considered, without putting at risk some of its utilization or its characteristics.

6.6.4 *Impact severity*

- A 'negligible or nil impact' or an impact of negligible significance is where a resource or receptor will not be affected in any way by a particular activity, or the predicted effect is deemed to be imperceptible or is indistinguishable from natural background levels.
- A 'minor impact' or an impact of minor significance is one where an effect will be experienced, but the impact magnitude is sufficiently small and well within accepted standards, and/or the receptor is of low sensitivity/value. In such instances, standard construction/ operational practices can address such impacts.
- A 'moderate impact' or an impact of moderate significance is where an effect will be within accepted limits and standards. Moderate impacts may cover a broad range, from a threshold below which the impact is minor, up to a level that might be just short of breaching an established (legal) limit. In such cases, standard construction practices can take care of these impacts but mitigation measures may also be required.
- A 'major impact' or an impact of major significance is one where an accepted limit or standard may be exceeded, or large magnitude impacts occur to highly valued/sensitive

resource/receptors. In such cases, alternatives are required to address such impacts otherwise mitigation measures should be adopted with strict monitoring protocols.

The above classification is largely subjective, and may be overruled by new site-specific issues or information and detailed project activities not captured in this ESIA report.

6.7 Potential Positive Impacts

The significant positive impacts of the River No. 2 project are outlined as follows:

- Creation of employment opportunities;
- Increased commerce and other economic activities;
- Improvement in social services;
- Cultural empowerment and exchange; and
- Enhanced conservation awareness in the local community.

6.7.1 *Creation of employment opportunities*

Employment opportunities for skilled, semi-skilled and unskilled labour will be created at the construction and operation phases as locals, will be recruited for short-term and long-term jobs. Jobs will such as tour guides, waiters, parking attendants. The presence of workers will create an opportunity for food vendors, shop owners and other business operators in the communities to make some income.

6.7.2 *Increased commerce and other economic activities*

The local economy will experience an increase in opportunities directly and indirectly through the supply of goods and the necessary services for tourist activities. Growth in numbers and revenue will be experienced by Small, Medium and Micro-enterprises (SMMEs) including restaurants, supermarkets, hotels/guest houses, art markets, car rentals, hairdressing, sewing, mechanic shops etc. Cultural empowerment and cultural exchange.

6.7.3 *Improvement in social services*

The influx of tourists into tourist destinations stimulates the improvement of social services such as electricity, and water supply to meet the standards of tourists. Also, tourism revenue helps improve other public services like healthcare and education services, in addition to a general increase in funding across the entire community.

6.7.4 *Cultural empowerment and exchange*

Traditional communities often experience increased self-esteem as a result of outsiders' respectful interest i.e. tourists meeting locals and learning about their cultures. Also, community participation adds significant value to a sustainable tourism program as locals also enhance their language and social skills and cultural knowledge of other places.

6.7.5 *Enhanced conservation awareness in the local community*

Most rural residents grow up in beautiful natural areas, yet many are unaware of the global significance of their natural and cultural resources until international nature tourists arrive, who are often enthralled by the local areas and communities. As a result, local communities experience a growing sense of pride and appreciation, which often leads to increased conservation efforts. Many residents become motivated to protect their communities and alter their resource usage patterns.

6.8 Potential Negative Impacts

The potential adverse impacts are grouped under the following:

- Preparatory phase impacts;
- Construction phase impacts; and
- Operations phase impacts.

6.8.1 *Preparatory and Construction Phase Potential Adverse Impacts*

The preparatory and construction phase potential adverse impacts are discussed below.

Occupational health and safety risks

The labour force would be exposed to workplace accidents, incidents and hazards including mechanical hazards e.g. crushing, impact, shearing, stabbing, trapping, entanglement, cutting/severing etc., non-mechanical hazards e.g., vibration, noise, radiations, dust, fumes, lighting, electricity, hazardous substances, extreme temperature, ergonomics, etc. and potential infection and spread of COVID-19, HIV/AIDS etc. Risks are mostly due to human errors, worker interactions, workers not wearing PPE and mechanical faults on equipment or improper fixing, handling or operation of equipment.

Occupational health and safety risks are localised, small scale and short term. However, they are highly sensitive because they impact human lives and could lead to mortality and long-term indisposition of victims hence rated major in significance.

Poor labour working conditions

Conditions of work could be unacceptable as the absence of employment contracts may lead to workers being paid rates below the stipulated national minimum wage and discriminated against. Also, workers could be denied proper welfare facilities such as toilets, changing rooms, clean drinking water, and shaded areas for resting during breaks as these may be considered by contractors as unnecessary expenses that could reduce profit margins. Rights such as freedom of association and speech, expression of grievances could be restricted as most contractors feel workers joining unions could lead to strikes and revolts.

The likelihood of the labour force working under poor working conditions is high, but the impact is localised and short-term spanning the construction phase. It is also highly sensitive since subjecting employees to poor conditions of service or work are against the Sierra Leone Employers and Employed Act, 1960. Hence this impact is moderately significant.

Destruction of vegetation and displacement of fauna

Land preparation activities will lead to the destruction of some common vegetation, mostly shrubs and grasses, and a few trees. Habitats of common soil organisms such as earthworms will also be destroyed. However, the project site has existing facilities with sparse vegetation and a little fauna, especially in the dry season. The vegetation is that of secondary forest and forest regrowth and common species such as *Dichrostachys glomerata*, *Harungana madagascariensis*, *Nauclea latifolia*, *Alchornea cordifolia*, *Trema guineensis* and *Elaeis guineensis* are not species of conservation concern as per the IUCN Red List.

Impact on vegetation is localized (site-specific), short term and small scale as only a few common trees at the existing car park will be lost. This impact therefore rated minor in significance or severity.

Clearing of vegetation will lead to loss of habitats for fauna including reptiles (snakes and lizards), ants, amphibians (frogs), earthworms etc. However, the sparse nature of vegetation means little fauna will be affected. The impact is short-term, localized and minor in intensity as it will affect a very small population. The impact is therefore classified as minor in significance.

Soil degradation

Clearing of project site vegetation as part of land preparation, and excavation for drains, lighting cables and foundation of structures such as public toilet and shower blocks would disturb the soil and lead to soil erosion. Considering the undulating nature of the project area's topography, transportation of the loose soil by runoff especially in the rainy season and will create gullies that are unsightly. Also, oil spillages and improperly disposed waste oils/lubricants from the maintenance of construction equipment and vehicles could contaminate soils. These could affect flora and destroy soil fauna such as earthworms and their habitats. The impact is localized, persistent and of average severity hence it is considered moderate.

Air pollution

Clearing and preparation of land for construction of access roads and other project facilities and transport of materials such as sand, gravels, and excavated spoil on untarred roads will lead to emission of particulate matter i.e. dust and fumes and adversely affect air quality, especially in the dry season. Particulate matter can be carried by winds over some distance into neighbouring communities and affect the quality of air as well as contribute to respiratory diseases in those areas. However, for access roads of just 500m, this impact is expected to be localized, temporary and of average intensity making the impact of moderate significance.

Water Pollution

Sediment from land preparation, oil waste from equipment and vehicle maintenance, wastewater from washing of construction vehicles and domestic waste from construction workers and food vendors could be transported into the sea, which is the nearest water body (about 50m), by runoff and reduce the quality of water. Sediments could increase turbidity of the water and make it unpleasant for swimming. Oil wastes could poison fishes and other aquatic organisms and domestic wastes such as plastics entering the seas could also smother marine organisms. The impact could be regional in extent, temporary in duration, average in intensity hence considered moderate in significance.

Noise and vibration nuisance

Construction activities including operation of construction equipment, movement of haulage vehicles and tooting of horns are expected to produce vibrations and noise levels in the range of 80 - 95 dB (A). Vibrations and high noise levels could affect the personnel operating the machines as well as the residents within the project community. Workers operating vibrating equipment such as poker vibrators could be exposed to musculo-skeletal disorders. Exposure to high noise levels could also damage eardrums and lead to hearing impairment in sensitive receptors. This impact is temporary and localized, affecting sensitive receptors in the immediate environs of the noise and vibration generating activity. Also, it is average in intensity as it could cause discomfort and loss of hearing ability. It is therefore considered to be of moderate significance.

Waste generation and disposal

Land preparation activities like vegetation clearance, earthworks like digging of trenches for drains and civil works will generate vegetative waste, excavated spoil, construction debris, pieces of steel/metal, packaging materials, plastic pieces, domestic waste etc. Liquid wastes expected to be generated include wastes from washing of construction equipment and vehicles, worker washrooms and canteen. Also, hazardous wastes including waste lubricants/oils, leftover paints, thinners etc. will be generated. If not properly managed, wastes could be washed off into and clog drains, decomposing organic waste like leftover food could produce foul smell/odour, vermin, and facilitate the outbreak of sanitary related diseases e.g. cholera by creating breeding grounds for disease-causing vectors such as houseflies. Wastes entering aquatic environments e.g. lubricants and plastics could poison and smother fishes and other aquatic organisms. The impact is local, temporary and of a high intensity hence considered major in significance.

Community safety concerns

Trucks hauling materials to the project site and/or carting waste from the site may be involved in accidents which may involve the beneficiary community or members of the general public. Such accidents can cause injuries, fatalities, loss of property and/or traffic disruptions along the haulage routes. Also, community members assessing the project site could be exposed to hazards such as trip and falls into trenches for drains and excavations, impact from falling objects and moving

vehicles/equipment, cuts and bruises from sharp objects littering project site etc. Fire outbreaks resulting from electrical faults and negligence of workers, during activities such as welding, can occur during the construction phase. If such fires are not immediately controlled, they can spread to nearby homes (approximately 50m) causing injuries and loss of property or lives.

Community safety concerns leading to accidents are localised, short term and small scale. However, being able to cause fatalities and/or long-term injuries on the local residents nearby, the impact intensity is rated average and the impact considered moderately significant.

Gender based violence

Workers with relatively high incomes will be working on the various sites. The site workers can lure young boys and girls, hawkers, food vendors, other petty traders who supply them food and other services and defile or rape them. Workers may also abuse themselves and/or supervisors. They can also do same to their wives, partners, children, hawkers, petty traders and food vendors physically or verbally over misunderstanding over prices of goods and services and other issues.

On site, managers and supervisors may solicit for sexual favours in exchange for employment opportunities, during negotiations for pay increment and improved conditions of service or in the assignment of tasks on site. Women may also be denied employment opportunities and /or their services may be undervalued on the basis of cultural norms.

The incidence of rape, defilement and other forms of Gender Based Violence is expected to be temporary, localised i.e. affecting mostly persons within the project area, and average in intensity as it could lead to injury, disability, or in extreme cases, death. However, since there are national laws in place to protect survivors, punish perpetrators and deter persons from engaging in these illegal activities, this impact is rated moderate in significance.

Public health issues

Improper waste management may create conditions for the growth of vectors of diseases such as cholera and dysentery. The outbreak of these diseases would have far-reaching negative implications for the health of residents and put pressure on the limited health facilities in the area.

Dust emissions are expected from construction activities like earthworks, trenching and excavation. Fumes will also be generated from operation of vehicles and equipment. These emissions have the potential of causing respiratory infections and minor throat and eye irritations, especially during the dry season.

The presence of workers and related increase in disposable cash makes the transmission of STDs such as HIV/AIDS a possibility. During project execution (civil works), large numbers of workers will be required to assemble together in meetings, and even at work sites; varied number of workforces including suppliers of material and services are also expected to come in from various places which may be COVID-19 hot spots; and interaction of workers with the project host community. The potential for the spread of any infectious disease like COVID-19 is high.

This impact is regional as migrant workers could carry diseases both into or out of the project area and increase the disease prevalence in the receiving community. It is temporal in duration yet average

in intensity as it could lead to extended morbidity or even death. The impact is therefore rated moderate in significance.

Security concerns

Construction works can be associated with theft and pilfering of construction materials normally from the general public and site workers. Site workers can also steal from private properties within the immediate project zone. Other crimes include illicit sexual assault, child labour and drunk driving.

There may also be confrontations arising out of accidents and destruction of property by workforce, equipment or vehicles. This impact is localized, severe but temporary hence considered moderate.

Impact on properties and livelihoods

The implementation of the project will not lead to the destruction of any residential or permanent structure. However, a few temporary structures such as tables of traders along the access road may be temporarily moved to make way for the road upgrade.

The project activities may impact on livelihoods of a few locals making a living out of the beach facility. Also, petty traders along roads to be upgraded could be temporarily displaced. This impact is localized, temporary and of weak intensity making the impact minor in significance.

Impact on social and cultural structures

Values associated with traditional life include songs, crafts, spiritual beliefs, oral history, traditional languages, innovations and practices of the project community. These values could be affected by the presence of migrant workers who may not understand and have no regard for them. This has the potential of eroding distinct values that form part of the identity of locals. This impact is temporary, localised, average in intensity as it could lead to social/cultural decadence. However, the project is expected to employ mostly local labour especially for unskilled jobs making the effect of cultural dilution minimal. The impact is therefore rated minor in significance.

Impact on cultural heritage resources

Cultural heritage resources such as shrines, cemeteries, sacred groves, rivers and artefacts form part of the spiritual and cultural fabric of most host communities and any damage to them is considered a desecration of its sacredness. Construction activities such as vegetation and land clearance and excavation pose the most significant risk to cultural heritage resources. However, there are no known cultural heritage resources within the project area.

Also, in undertaking construction activities, cultural heritage resources or archaeological material could be encountered or chanced upon. In chance find situations, a chance find procedure (**sample in Annex 4**) will be followed. This impact is local, temporary and average in intensity hence it is rated minor in significance.

6.8.2 *Operation Phase Potential Adverse Impacts*

The operation phase potential adverse impacts are discussed below.

Occupational health and safety risks

Workers employed to manage the facility could be exposed to fire hazards and other emergencies, minor work-related injuries such as falls, trips and slips, potential infection and spread of COVID-19.

Occupational health and safety risks at this stage are localised, small scale, and less likely to occur compared to the construction stage. However, they are strong in intensity as they affect human lives and could lead to mortality and long-term indisposition of victims hence rated moderate in significance.

Poor labour working conditions

Unemployment and a lack of job opportunities could make staff providing services for the operation of tourism facilities settle for unacceptable work conditions including poor salaries, discrimination, lack of employment contracts, long working hours. Also, rights such as freedom of association (joining unions) and speech could be restricted.

This impact is localised and long-term as it will persist over the lifespan of the facility. It is also highly sensitive since subjecting employees to poor conditions of service or work are against the Sierra Leone Employers and Employed Act, 1960. Hence this impact is moderately significant.

Air Pollution

The increased number of tourists and revellers commuting to the facility in River No. 2 in vehicles will generate vehicular exhaust fumes and pollute the air in the project area. Also, generator sets used to produce electricity will generate fumes. Considering that electrical power supply is erratic in the project area, generators could be used for long hours generating more fumes than usual. This impact is however localised, long-term and average in intensity hence considered moderate in significance.

Water Pollution and over-abstraction

Improperly managed garbage and liquid waste from kitchens and washrooms could pollute nearby waterbodies through runoff as well as groundwater. Also, over-abstraction of water, both from surface water and groundwater, could result from increased demand associated with influx of tourists. This impact is localised, long-term (throughout the facility's existence) and average in intensity as it could lead to the spread of water-borne diseases. It is therefore moderately significant.

Noise Nuisance

Sources of noise include vehicular engines, generators and other noise-generating equipment, music, PA systems, shouting and chatter by tourists. Noise levels could go high depending on the occasion and the number of revellers at a particular time. Also, noise could travel beyond the usual receptors (nearby residences) especially in the late evening, when sound travels farther. This impact is localised, intermittent and weak in intensity hence classified as minor in significance.

Waste generation and disposal

Solid waste including general waste i.e. plastic and paper packaging, cans, leftover food etc. and electronic waste such as non-functional components of solar system i.e. inverters, batteries, and PV modules will be generated. Also, liquid waste will be generated from washrooms, kitchens etc. Improper management and littering of the facility and its surroundings with wastes such as plastics, paper, PV modules etc. could create unsightly scenes. Decomposing organic waste could produce foul smell/odour, vermin, and facilitate the outbreak of sanitary related diseases e.g. cholera by creating breeding grounds for disease-causing vectors such as houseflies and mosquitoes. Liquid waste and hazardous chemicals such as lead leaking from old solar system batteries could enter nearby waterbodies and poison fishes and other aquatic organisms.

The impact is localised, temporary and average in intensity, as it could affect the health of persons and other organisms. However, waste generated can generally be managed and electronic wastes are only generated every 5 to 20 years. The impact is therefore considered moderate in significance.

Community safety concerns

Increase in vehicular and human traffic on the roads in the project area, especially the Peninsular highway, is likely to lead to cases of road accidents. Such accidents can cause injuries, fatalities, loss of property and/or traffic disruptions along the routes. Also, inexperienced swimmers could be exposed to drowning risks especially if there are no or inadequate guides/guards. Also, fire outbreaks, from faulty electrical equipment or improper wiring of facility could spread to nearby homes (approximately 50m) and cause injuries and loss of property or lives.

Community safety concerns are largely localised (making management possible), intermittent, and strong in intensity as it can lead to loss of property and lives. It is therefore considered moderate in significance.

Gender based violence

Tourists will come from neighbouring communities, other parts of the country and even outside the country into the project area. Interactions between the community especially women and tourists may lead to potential safety issues. If not properly managed, the influx of tourists could have a negative impact in the project area, especially in the context of high prevalence and social acceptability of violence against women and girls.

Women are likely to face discrimination and found in lower-paid, unskilled jobs. As poverty and unemployment is pervasive, they are more likely to experience poor working conditions, inequality of opportunity and treatment, violence, exploitation, stress and sexual harassment. Tourists may even get away with sexual harassment of female workers like waitresses and cleaners as the customer is always considered right.

Tourists who are normally outside their sphere of social control put up inappropriate behaviour such as sexual harassment of women and girls and illicit sexual relations with minors from the local community. The influx of tourists may increase the demand for sex work, the risk of trafficking of women for the purposes of sex work. There is also the risk of teenage pregnancy and forced marriages.

Employment of females may also cause shifts in power dynamics within households and between community members. This could lead to male jealousy and spousal violence.

This impact is localised, long-term and strong in intensity, considering that responsible bodies such as the Police Family Support Unit is inadequately resourced and lacks the capacity to fully offer the required GBV services. The impact is therefore considered moderate in significance.

Public health issues

The density of tourist visits increases interactions and the likelihood of disease transmission from one person to another e.g. COVID-19. The presence of tourists will also drive an increase in sex work and the associated sexually transmitted infections like HIV/AIDS.

Improper waste management may create conditions for the growth of vectors of diseases such as cholera and dysentery. The outbreak of these diseases would have far-reaching negative implications for the health of residents and put pressure on the limited health facilities in the area.

This impact is regional as tourists move from place to place frequently and may spread diseases very fast increasing the burden of disease in the receiving community. It is long-term as the facility is expected to operate for a long period. It is strong in intensity as it could lead to higher infection rates resulting in extended morbidity or even death. The impact is therefore rated major in significance.

Security concerns

Tourists could be attacked by unscrupulous persons and robbed of their money and valuables. Incidents of theft, burglary and even armed robbery are expected to increase. Unsuspecting females i.e. locals and tourists could be attacked and raped especially in the night, and along deserted paths or in deserted areas. Cases of fraud could increase as tourists could be tricked into paying for goods and services that may never be offered. Economic inequality could lead to resentment and intolerance by locals which may result in confrontations. Violent behaviour on the part of tourists and abuse could also result in fights or clashes with locals. This impact is long-term, localised and average in intensity hence classified as moderate in significance.

Impact on social and cultural structures

Pre-tourist culture is likely to be affected by the project implementation. Traditional values and practices are likely to be altered as tourists may not understand and have no regard for them. Social problems like drug abuse, prostitution, and gambling are expected.

Also, demand for accommodation, entertainment, food and beverages, transportation services may increase the cost of living making rent, food etc. unaffordable for locals and driving them into deeper poverty. Increased traffic and tourist activities could hinder the daily life of locals. The impact is localised, long-term or permanent, and strong in intensity as it affects values which are the foundation on which societies are built. However, there is the opportunity for cultural exchange where tourists get to learn and experience local culture hence the impact is considered moderate in significance.

7.0 PROPOSED MITIGATION AND MANAGEMENT MEASURES

The proposed mitigation options and interventions are to avoid, minimise and reduce negative environmental and social impacts and to ensure smooth and sustainable implementation of project and minimise conflicts or disputes. These are provided below.

Occupational health and safety measures

Construction Phase

- Good housekeeping around work area must be ensured to prevent slips, trips & falls.
- Only trained and competent workers should be allowed to carry out work, and must be well briefed on safe working procedures.
- Mandatory and basic PPE must be worn.
- Have accident and incident reporting form available to record accidents and near-misses
- Provide standard safety signage and lighting at suitable locations
- Fence and/or barricade around trenches and excavations
- Provide alternative safe routes for pedestrians in case their normal routes become unsafe due to ongoing work
- Provide qualified first aiders and ensure availability of a well-stocked first aid box on construction site
- Conduct regular toolbox meetings
- Properly segregate pedestrians and machinery at construction sites

Operation Phase

- Put in place fire prevention and emergency response measures
- Ensure disease prevention and COVID-19 control measures are in place
- Provide measures to ensure security of persons and property
- Keep facility clean and free of obstructions at all times to prevent injury from falls, trip and slips.
- Ensure workers have the required competence to execute assigned tasks.

Poor labour working conditions prevention

Construction Phase

- Provide all workers with signed contracts that are consistent with national labour laws
- Provide welfare facilities such as potable drinking water, shades, restrooms etc. for workers.
- Establish labour grievance management mechanism
- Ensure workers sign Code of Conduct (CoC)

Operation Phase

- Provide all workers with signed contracts that are consistent with national labour laws
- Provide welfare facilities such as potable drinking water, shades, restrooms etc. for workers.
- Ensure that only competent workers are assigned tasks and provide training where necessary

Destruction of vegetation and displacement of fauna minimization measures

Construction Phase

- Clear only area required for the project
- Stray animals that are observed at or around project sites should be given safe passage to nearby bush and not killed.
- Hunting and or killing of animals in bushes around project site by construction or other workers should be prohibited and made punishable.

Soil degradation avoidance measures

Construction Phase

- Manage waste and sediments properly to prevent it from entering and polluting nearby waterbodies.
- Avoiding washing of vehicles, machinery, equipment near water bodies.
- Treatment of effluents and wastewater from construction site before discharging into water bodies
- Avoid seepage of oil and other hazardous waste which could contaminate ground water
- Training of workers on water pollution preventive measures

Air Pollution prevention measures

Construction Phase

- Dust control measures including regular dousing of ground/roads, provision of nose covers, speed limit restrictions e.g., 20km/hr etc.
- Discourage idling of engines to minimise emission of vehicular fumes

Operation Phase

- Discourage idling of engines to minimise emission of vehicular fumes

Water Pollution prevention measures

Construction Phase

- Manage waste and sediments properly to prevent it from entering and polluting nearby waterbodies.
- Avoid washing of vehicles, machinery, equipment near water bodies.
- Treatment of effluents and wastewater from construction site before discharging into water bodies
- Avoid seepage of oil and other hazardous waste which could contaminate ground water
- Train workers on water pollution preventive measures

Operation Phase

- Manage waste properly to prevent it from entering and polluting nearby waterbodies.

Noise and Vibration Nuisance abatement measures

Construction Phase

- Unnecessary tooting of horn by drivers must be discouraged.
- Provide silencers on or properly house all noise generating equipment such as generators.
- Regularly service construction machinery, equipment, and vehicles to reduce noise generation
- Provide workers with ear muffs/plugs.

Operation Phase

- Discourage indiscriminate honking by drivers.
- Keep music and noise from PA systems low, especially in the evening.
- Provide silencers on or properly house all noise generating equipment such as generators.

Waste management measures

Construction Phase

- Waste bins must be provided and well labelled for waste segregation and disposal.
- Only licensed waste management companies must be engaged to collect and dispose of waste collected at approved dumping sites.
- Regular toolbox talk on waste management must be provided to operatives/workers at the facility.
- Have SOPs for managing hazardous and non-hazardous waste.
- Keep written record of waste generated during construction, (including e-waste). Such record should include type, amount, transportation and final disposal site to avoid dumping in the open or at uncertified locations.

Operation Phase

- Waste bins must be provided and well labelled for waste segregation and disposal.
- Only licensed waste management companies must be engaged to collect and dispose of waste collected.
- Electronic waste like inverters, PV panels and batteries should be stored properly to prevent leakage of fluids e.g. battery acid and should be disposed using licensed companies
- Liquid waste should be treated before discharged into the environment
- Have SOPs for managing hazardous and non-hazardous waste.

Community safety concerns

Construction Phase

- Trained flagmen (to slow down traffic) or parking attendants must be used to ensure safety when vehicles are entering or leaving the construction site.
- Appropriate warning signs should be put in place to warn the public especially motorists.
- Have accident and incident reporting form to record accidents and near-misses.
- Fence all excavations/trenches within communities to reduce risks of falling in trenches

Operation Phase

- Trained flagmen (to slow down traffic) or parking attendants must be used to ensure safety when vehicles are entering or leaving the facility.
- Appropriate warning signs should be put in place to warn the public especially motorists.
- Have accident and incident reporting form to record accidents and near-misses.
- Employment of lifeguards possibly from the local community to conduct rescue operations

Gender based violence prevention measures

Construction Phase

- Require all contractors to have a Code of Conduct for project workers that prohibits gender-based violence (including sexual exploitation and abuse and sexual harassment (SEA/SH) as well as child and forced labour); prohibits sexual contact with persons under 18; and contains clear sanctions in the event of breach
- Require all contractors to regularly train employees on Codes of Conduct and how to report incidents;
- Require all contractors to document other SEA/SH risk mitigation measures (including incident response procedures) in their c-ESMPs or other safeguards instruments
- Ensure that the project's Grievance Mechanism has special procedures for confidentially responding to GBV/SEA/SH complaints with a survivor-centred approach;
- Put in place a referral pathway to GBV service providers linked to the Grievance Mechanism;
- Develop an incident response protocol to guide the IA's response to GBV/SEA/SH incidents (Accountability and Response Framework)
- Sensitize communities on GBV/SEA/SH risks as well as reporting mechanisms and expectations;
- Contact numbers of representative on the Grievance Redress Committee and GBV Service Providers should be pasted around the construction site
- A minimum requirement of female employment should be indicated in the human resource policy of contractor.

Operation Phase

- Facility must have and require all third-party contractors to have a Code of Conduct for workers that prohibits gender-based violence (including sexual exploitation and abuse and sexual harassment (SEA/SH) as well as child and forced labour); prohibits sexual contact with persons under 18; and contains clear sanctions in the event of breach
- Facility must have and require all third-party contractors to regularly train employees on Codes of Conduct and how to report incidents;

- Ensure that the facility's Grievance Mechanism has special procedures for confidentially responding to GBV/SEA/SH complaints with a survivor-centred approach;
- Put in place a referral pathway to GBV service providers linked to the Grievance Mechanism;
- Develop an incident response protocol to guide the IA's response to GBV/SEA/SH incidents (Accountability and Response Framework)
- Sensitize communities on GBV/SEA/SH risks as well as reporting mechanisms and expectations;
- Contact numbers of representative on the Grievance Redress Committee and GBV Service Providers should be pasted around the construction site
- A minimum requirement of female employment should be indicated in the human resource policy of facility manager/operator

Public health measures

Construction Phase

- Organize trainings on COVID-19 and Sexually Transmitted Diseases (STDs) for the workers and the community to create awareness.
- Provide female and male condoms in washrooms for workers and patrons.
- Conduct daily temperature screening of workers and patrons.
- Provide handwashing stations and sanitizers
- Ensure workers and visitors adhere to all COVID-19 protocols including wearing of face mask and social distancing.
- Encourage workers to get vaccinated.

Operation Phase

- Sensitize community on COVID-19 and STDs.
- Encourage health facilities to provide locals with condoms for STD prevention.
- Conduct daily temperature screening of employees and patrons.
- Provide handwashing stations and sanitizers
- Ensure workers and visitors adhere to all COVID-19 protocols including wearing of face mask and social distancing.
- Encourage workers to get vaccinated.

Security measures

Construction Phase

- Provide adequate security by liaising with Police to conduct regular patrols
- Sensitize local community on cultural tolerance and grievance mechanisms to prevent confrontations

Operation Phase

- Provide adequate lighting around the facility to prevent attacks in the dark
- Provide adequate security by liaising with Police to conduct regular patrols

- Employ local youth to provide security at car parks
- Sensitize local community on cultural tolerance and grievance mechanisms to prevent confrontations

Impact on structures/ properties and livelihoods avoidance measures

Construction Phase

- Engage PAPs and provide adequate information on project impact
- To the extent possible, provide employment and other opportunities to local community and persons making a living out of the beach facility
- Avoid impact on livelihoods and relocation (if any) to the extent possible
- Where avoidance is not possible, consult PAPs, seek consent early, and develop a Resettlement Action Plan (RAP)
- Ensure GRM (including GBV sensitive GRM) is established and operational

Impact on social and cultural structures and resources avoidance measures

- A code of conduct for employees and visitors that establishes rules for respect of local norms and traditions should be adopted.
- Ensure that internal and external complaints are dealt with speedily.
- Traditional authorities should be constantly engaged to ensure cordial relations between project and the local community.
- Develop chance find procedures to guide handling of archaeological materials found by chance at the construction stage

8.0 ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

This section presents the Environmental and Social Management Plan (ESMP), **Table 8-1** that is designed to operationalize the environmental and social commitments presented in this ESIA report. The ESMP presents a set of management, mitigation and monitoring measures to be taken at different stages of the project implementation. It sets out record keeping required to ensure that mitigation measures and monitoring are effective and results duly communicated to stakeholders.

Table 8- 1: Environmental and Social Management Plan

Impact	Project Phase	Location/Source	Mitigation Hierarchy	Mitigation Measure	Responsible Party	Supervision	Cost
Occupational health and safety	Construction	<ul style="list-style-type: none"> Project site 	<ul style="list-style-type: none"> Abate on site 	<ul style="list-style-type: none"> Good housekeeping around work area must be ensured to prevent slips, trips & falls. Only trained and competent workers should be allowed to carry out work, and must be well briefed on safe working procedures. Mandatory and basic PPE must be worn. Have accident and incident reporting form available to record accidents and near-misses Provide standard safety signage and lighting at suitable locations Fence and/or barricade around trenches and excavations Provide alternative safe routes for pedestrians in case their normal routes become unsafe due to ongoing work Provide qualified first aiders and ensure availability of a well-stocked first aid box on construction site Conduct regular toolbox meetings Properly segregate pedestrians and machinery at construction sites 	Works contractor	Environmental Safeguards Specialist of PCU	To be captured in Bill of Quantities (BoQ)
Poor labour working conditions	Construction	<ul style="list-style-type: none"> Project Site 	<ul style="list-style-type: none"> Avoid at source 	<ul style="list-style-type: none"> Provide all workers with signed contracts that are consistent with national labour laws Provide welfare facilities such as potable drinking water, shades, restrooms etc. for workers. Establish labour grievance management mechanism 	Works contractor	Environmental and Social Safeguards Specialists of PCU	To be captured in Bill of Quantities (BoQ)

Impact	Project Phase	Location/Source	Mitigation Hierarchy	Mitigation Measure	Responsible Party	Supervision	Cost
				<ul style="list-style-type: none"> Ensure workers sign Code of Conduct (CoC) 			
Soil erosion	Construction	<ul style="list-style-type: none"> Project site 	<ul style="list-style-type: none"> Repair or remedy 	<ul style="list-style-type: none"> Manage waste and sediments properly to prevent it from entering and polluting nearby waterbodies. Avoiding washing of vehicles, machinery, equipment near water bodies. Treatment of effluents and wastewater from construction site before discharging into water bodies Avoid seepage of oil and other hazardous waste which could contaminate ground water Training of workers on water pollution preventive measures 	Works contractor	Environmental Safeguards Specialist of PCU	To be captured in Bill of Quantities (BoQ)
Air Pollution	Construction	<ul style="list-style-type: none"> Project site and haulage route 	<ul style="list-style-type: none"> Avoid or reduce at source 	<ul style="list-style-type: none"> Dust control measures including regular dousing of ground/roads, provision of nose covers, speed limit restrictions e.g., 20km/hr etc. Discourage idling of engines to minimise emission of vehicular fumes 	Works contractor	Environmental Safeguards Specialist of PCU	To be captured in Bill of Quantities (BoQ)
Water Pollution	Construction	<ul style="list-style-type: none"> Project site 	<ul style="list-style-type: none"> Avoid at source 	<ul style="list-style-type: none"> Manage waste and sediments properly to prevent it from entering and polluting nearby waterbodies. Discharges of wastewater to surface water should not result in contaminant concentrations in excess of local ambient water quality criteria or, in the absence of local criteria, other sources of ambient water quality, e.g., 	Works contractor	Environmental Safeguards Specialist of PCU	To be captured in Bill of Quantities (BoQ)

Impact	Project Phase	Location/Source	Mitigation Hierarchy	Mitigation Measure	Responsible Party	Supervision	Cost
				<p>WHO guidelines as recommended in the WBG EHS Guidelines.</p> <ul style="list-style-type: none"> Avoid washing of vehicles, machinery, equipment near water bodies. Treatment of effluents and wastewater from construction site before discharging into water bodies Avoid seepage of oil and other hazardous waste which could contaminate ground water Train workers on water pollution preventive measures 			
Noise Nuisance	Construction	<ul style="list-style-type: none"> Equipment and vehicles on site 	<ul style="list-style-type: none"> Abate on site 	<ul style="list-style-type: none"> Unnecessary tooting of horn by drivers must be discouraged. Provide silencers on or properly house all noise generating equipment such as generators. Regularly service construction machinery, equipment, and vehicles to reduce noise generation Provide workers with ear muffs/plugs. 	Works contractor	Environmental Safeguards Specialist of PCU	To be captured in Bill of Quantities (BoQ)
Waste generation and disposal	Construction	<ul style="list-style-type: none"> Project site 	<ul style="list-style-type: none"> Abate or reduce at source 	<ul style="list-style-type: none"> Waste bins must be provided and well labelled for waste segregation and disposal. Only licensed waste management companies must be engaged to collect and dispose of waste collected at approved dumping sites. Regular toolbox talk on waste management must be provided to operatives/workers at the facility. 	Works contractor	Environmental Safeguards Specialist of PCU	To be captured in Bill of Quantities (BoQ)

Impact	Project Phase	Location/Source	Mitigation Hierarchy	Mitigation Measure	Responsible Party	Supervision	Cost
				<ul style="list-style-type: none"> Have SOPs for managing hazardous and non-hazardous waste. 			
Community/Public safety concerns	Construction	<ul style="list-style-type: none"> Project site 	<ul style="list-style-type: none"> Abate on site 	<ul style="list-style-type: none"> Trained flagmen (to slow down traffic) or parking attendants must be used to ensure safety when vehicles are entering or leaving the construction site. Appropriate warning signs should be put in place to warn the public especially motorists. Have accident and incident reporting form to record accidents and near-misses. Fence all excavations/trenches within communities to reduce risks of falling in trenches 	Works contractor	Environmental and Social Safeguards Specialists of PCU	To be captured in Bill of Quantities (BoQ)
Public health issues	Construction	<ul style="list-style-type: none"> Project-community interactions 	<ul style="list-style-type: none"> Avoid at source 	<ul style="list-style-type: none"> Organize trainings on COVID-19 and Sexually Transmitted Diseases (STDs) for the workers and the community to create awareness. Provide female and male condoms in washrooms for workers and patrons. Conduct daily temperature screening of workers and patrons. Provide handwashing stations and sanitizers Ensure workers and visitors adhere to all COVID-19 protocols including wearing of face mask and social distancing. Encourage workers to get vaccinated. 	Works contractor	Environmental and Social Safeguards Specialists of PCU	3,500

Impact	Project Phase	Location/Source	Mitigation Hierarchy	Mitigation Measure	Responsible Party	Supervision	Cost
Security concerns	Construction	<ul style="list-style-type: none"> Project site 	<ul style="list-style-type: none"> Abate or reduce at source, abate on site 	<ul style="list-style-type: none"> Provide adequate security by liaising with Police to conduct regular patrols Sensitize local community on cultural tolerance and grievance mechanisms to prevent confrontations 	Works contractor	Environmental and Social Safeguards Specialists of PCU	1,500
Gender based violence	Construction	<ul style="list-style-type: none"> Project and community interaction 	<ul style="list-style-type: none"> Avoid at source, repair or remedy 	<ul style="list-style-type: none"> Require all contractors to have a Code of Conduct for project workers that prohibits gender-based violence (including sexual exploitation and abuse and sexual harassment (SEA/SH) as well as child and forced labour); prohibits sexual contact with persons under 18; and contains clear sanctions in the event of breach Require all contractors to regularly train employees on Codes of Conduct and how to report incidents; Require all contractors to document other SEA/SH risk mitigation measures (including incident response procedures) in their c-ESMPs or other safeguards instruments Ensure that the project's Grievance Mechanism has special procedures for confidentially responding to GBV/SEA/SH complaints with a survivor-centred approach; Put in place a referral pathway to GBV service providers linked to the Grievance Mechanism; Develop an incident response protocol to guide the IA's response to GBV/SEA/SH incidents (Accountability and Response Framework) 	PCU	Environmental and Social Safeguards Specialists of PCU	4,000

Impact	Project Phase	Location/Source	Mitigation Hierarchy	Mitigation Measure	Responsible Party	Supervision	Cost
				<ul style="list-style-type: none"> Sensitize communities on GBV/SEA/SH risks as well as reporting mechanisms and expectations; Contact numbers of representative on the Grievance Redress Committee and GBV Service Providers should be pasted around the construction site A minimum requirement of female employment should be indicated in the human resource policy of contractor. 			
Impact on structures/properties/livelihoods	Construction	<ul style="list-style-type: none"> Site preparation 	<ul style="list-style-type: none"> Avoid 	<ul style="list-style-type: none"> Engage PAPs and provide adequate information on project impact To the extent possible, provide employment and other opportunities to local communities Avoid impact on livelihoods and relocation (if any) to the extent possible Where avoidance is not possible, consult PAPs, seek consent early, and develop a Resettlement Action Plan (RAP) Ensure GRM (including GBV sensitive GRM) is established and operational To the extent possible, provide employment and other opportunities to locals making a living out of the surf club 	Works contractor	Environmental and Social Safeguards Specialists of PCU	-

Impact	Project Phase	Location/Source	Mitigation Hierarchy	Mitigation Measure	Responsible Party	Supervision	Cost
Destruction of vegetation and displacement of wildlife	Construction	<ul style="list-style-type: none"> Site preparation 	<ul style="list-style-type: none"> Offset 	<ul style="list-style-type: none"> Clear only area required for the project Stray animals that are observed at or around project sites should be given safe passage to nearby bush and not killed. Hunting and or killing of animals in bushes around project site by construction or other workers should be prohibited and made punishable. 	Works contractor	Environmental Safeguards Specialist of PCU	To be captured in Bill of Quantities (BoQ)
Impact on social and cultural structures/resources or values	Construction	<ul style="list-style-type: none"> Project and community interaction 	<ul style="list-style-type: none"> Abate at source 	<ul style="list-style-type: none"> A code of conduct for construction workers and patrons that establishes rules for respect of local norms and traditions should be adopted. Ensure that internal and external complaints are dealt with speedily. Traditional authorities should be constantly engaged to ensure cordial relations between project and the local community. Follow chance find procedures (Annex 4) to guide handling of archaeological materials found by chance at the construction stage. 	Works contractor	Social Safeguards Specialists of PCU	To be captured in Bill of Quantities (BoQ)
Operation							
Occupational health and safety	Operation	<ul style="list-style-type: none"> Facility site 	<ul style="list-style-type: none"> Avoid or reduce at source 	<ul style="list-style-type: none"> Put in place fire prevention and emergency response measures Ensure disease prevention and COVID-19 control measures are in place 	Facility manager	HSE Manager of Facility Operator	3,000

Impact	Project Phase	Location/S ource	Mitigation Hierarchy	Mitigation Measure	Responsible Party	Supervision	Cost
				<ul style="list-style-type: none"> Provide measures to ensure security of persons and property Keep facility clean and free of obstructions at all times to prevent injury from falls, trip and slips. Ensure workers have the required competence to execute assigned tasks. 			
Poor labour working conditions	Operation	<ul style="list-style-type: none"> Facility site 	<ul style="list-style-type: none"> Avoid at source 	<ul style="list-style-type: none"> Provide all workers with signed contracts that are consistent with national labour laws Provide welfare facilities such as potable drinking water, shades, restrooms etc. for workers. Ensure that only competent workers are assigned tasks and provide training where necessary 	Facility manager	HSE Manager and HR Manager of Facility Operator	3,000
Air Pollution	Operation	<ul style="list-style-type: none"> Facility site 	<ul style="list-style-type: none"> Avoid or reduce at source 	<ul style="list-style-type: none"> Discourage idling of engines to minimise emission of vehicular fumes 	Facility manager	HSE Manager of Facility Operator	-
Water Pollution	Operation	<ul style="list-style-type: none"> Facility site 	<ul style="list-style-type: none"> Avoid at source 	<ul style="list-style-type: none"> Manage waste properly to prevent it from entering and polluting nearby waterbodies. Discharges of wastewater to surface water should not result in contaminant concentrations in excess of local ambient water quality criteria or, in the absence of local criteria, other sources of ambient water quality, e.g., WHO guidelines as recommended in the WBG EHS Guidelines. 	Facility manager	HSE Manager of Facility Operator	-

Impact	Project Phase	Location/Source	Mitigation Hierarchy	Mitigation Measure	Responsible Party	Supervision	Cost
				<ul style="list-style-type: none"> Treat waste water as described in Section 2.2.4 using the biorock system before discharge into the environment 			
Noise Nuisance	Operation	<ul style="list-style-type: none"> Facility site 	<ul style="list-style-type: none"> Avoid or reduce at source 	<ul style="list-style-type: none"> Discourage indiscriminate honking by drivers. Keep music and noise from PA systems low, especially in the evening. Provide silencers on or properly house all noise generating equipment such as generators. 	Facility manager	HSE Manager of Facility Operator	2,000
Waste generation and disposal	Operation	<ul style="list-style-type: none"> Facility 	<ul style="list-style-type: none"> Reduce at source 	<ul style="list-style-type: none"> Waste bins must be provided and well labelled for waste segregation and disposal. Only licensed waste management companies must be engaged to collect and dispose of waste collected. Electronic waste like inverters, PV panels and batteries should be stored properly to prevent leakage of fluids e.g. battery acid and should be disposed using licensed companies Liquid waste should be treated before discharged into the environment Have SOPs for managing hazardous and non-hazardous waste. 	Facility manager	HSE Manager of Facility Operator	4,000
Community/Public safety concerns	Operation	<ul style="list-style-type: none"> Facility 	<ul style="list-style-type: none"> Abate on site 	<ul style="list-style-type: none"> Trained flagmen (to slow down traffic) or parking attendants must be used to ensure safety when vehicles are entering or leaving the facility. 	Facility manager	HSE Manager and Community Liaison Officer	1,500

Impact	Project Phase	Location/Source	Mitigation Hierarchy	Mitigation Measure	Responsible Party	Supervision	Cost
				<ul style="list-style-type: none"> Appropriate warning signs should be put in place to warn the public especially motorists. Have accident and incident reporting form to record accidents and near-misses Employment of lifeguards possibly from the local community to conduct rescue operations 		of Facility Operator	
Public health issues	Operation	<ul style="list-style-type: none"> Workers, patrons, community 	<ul style="list-style-type: none"> Avoid or reduce at source 	<ul style="list-style-type: none"> Sensitize community on COVID-19 and STDs. Encourage health facilities to provide locals with condoms for STD prevention. Conduct daily temperature screening of employees and patrons. Provide handwashing stations and sanitizers Ensure workers and visitors adhere to all COVID-19 protocols including wearing of face mask and social distancing. Encourage workers to get vaccinated. 	Facility manager	HSE Manager and Community Liaison Officer of Facility Operator	3,500
Security concerns	Operation	<ul style="list-style-type: none"> Community 	<ul style="list-style-type: none"> Avoid or reduce at source 	<ul style="list-style-type: none"> Provide adequate lighting around the facility to prevent attacks in the dark Provide adequate security by liaising with Police to conduct regular patrols Employ local youth to provide security at car parks Sensitize local community on cultural tolerance and grievance mechanisms to prevent confrontations 	Facility manager	HSE Manager and Community Liaison Officer of Facility Operator	1,500

Impact	Project Phase	Location/Source	Mitigation Hierarchy	Mitigation Measure	Responsible Party	Supervision	Cost
Gender based violence	Operation	<ul style="list-style-type: none"> Workers, patrons, community 	<ul style="list-style-type: none"> Avoid or reduce at source, repair and remedy 	<ul style="list-style-type: none"> Facility must have and require all third-party contractors to have a Code of Conduct for workers that prohibits gender-based violence (including sexual exploitation and abuse and sexual harassment (SEA/SH) as well as child and forced labour); prohibits sexual contact with persons under 18; and contains clear sanctions in the event of breach Facility must have and require all third-party contractors to regularly train employees on Codes of Conduct and how to report incidents; Ensure that the facility's Grievance Mechanism has special procedures for confidentially responding to GBV/SEA/SH complaints with a survivor-centred approach; Put in place a referral pathway to GBV service providers linked to the Grievance Mechanism; Develop an incident response protocol to guide the IA's response to GBV/SEA/SH incidents (Accountability and Response Framework) Sensitize communities on GBV/SEA/SH risks as well as reporting mechanisms and expectations; Contact numbers of representative on the Grievance Redress Committee and GBV Service Providers should be posted around the construction site 	Facility manager	HSE Manager and Community Liaison Officer of Facility Operator	3,500

Impact	Project Phase	Location/Source	Mitigation Hierarchy	Mitigation Measure	Responsible Party	Supervision	Cost
				<ul style="list-style-type: none"> A minimum requirement of female employment should be indicated in the human resource policy of facility manager/operator 			
Impact on social and cultural structures or values	Operation	<ul style="list-style-type: none"> Workers, patrons 	<ul style="list-style-type: none"> Avoid or reduce at source, repair and remedy 	<ul style="list-style-type: none"> A code of conduct for employees and visitors that establishes rules for respect of local norms and traditions should be adopted. Ensure that internal and external complaints are dealt with speedily. Traditional authorities should be constantly engaged to ensure cordial relations between project and the local community. 	Facility manager	HSE Manager and Community Liaison Officer of Facility Operator	2,000

8.1 ESMP Implementation

8.1.1 Institutional Arrangement and Responsibilities

The institutional arrangement identifies the relevant institutions and actors involved in the implementation of the ESMP, their roles and responsibilities. The main institutions or actors concerned with the implementation of the Project and the ESMP related activities are provided in **Table 8-2**. The ESMP implementation activities will be under the overall guidance of the PCU.

Table 8- 2: Roles and Responsibilities of Key Actors

Key Actors / Institutions	Description of Key Roles/Responsibilities
PCU	<ul style="list-style-type: none"> Responsible for project implementation in general. Have the overall responsibility to ensure that the project implements the construction phase management and monitoring requirements provided in the ESMP. Responsible for grievance redress procedure and its functioning and effectiveness of other litigation avoidance measures. Oversee sensitization and awareness programmes. Grievance Redress
Ministry of Tourism and Cultural Affairs	<ul style="list-style-type: none"> Project planning and design Land acquisition and payment of compensations to PAPs Management of Contract award at the operational phase Compliance monitoring
EPA	<ul style="list-style-type: none"> Issuing of environmental permit upon review and approval of ESIA Adhoc monitoring of the sub project to ensure compliance with conditions of the Environmental Permit.
Local Council	<ul style="list-style-type: none"> Adhoc monitoring of project during the construction phase Monitoring facilities during the operational phase of the project to ensure that it is working properly and help resolve operational phase challenges Grievance Redress
Project Consultant including Project Engineer and Safeguards Specialist representing the PCU	<ul style="list-style-type: none"> Ensure that project execution meets specified environmental, social, health and safety guidelines contained in this report and contract documents Issue site instructions to Contractors to ensure environmental and social mitigation measures are implemented by contractors Grievance Redress The Environmental Safeguards Specialist will be responsible for environmental issues and the Social Safeguards Specialist responsible for social issues. Safeguards specialists are however required to work as a team to ensure that issues are dealt with in a holistic manner
HR Manager	<ul style="list-style-type: none"> In charge of human resource management and handling of issues related to labour and working conditions Grievance redress

Key Actors / Institutions	Description of Key Roles/Responsibilities
HSE Manager	<ul style="list-style-type: none"> • Monitors health, safety and environment issues at the operational stage • Conduct trainings for workers
Community Liaison Officer	<ul style="list-style-type: none"> • Liaises with the project and community on social issues • Assist with sensitization drives • Grievance redress
Works Contractors/Sub Contractors	<ul style="list-style-type: none"> • Contractors for the civil works will be responsible for construction and installations under the project according to project specifications and designs. • Contractors are responsible for reinstatement of all damaged properties. • Contractors are responsible for implementation of the construction phase mitigation measures provided in this ESIA report • Responsible for presentation of monthly monitoring report to the PCU • Responsible for remedying defects committed during construction of the facility
National Tourist Board	<ul style="list-style-type: none"> • Adhoc compliance monitoring of project during the construction phase • Grievances redress • Supervision of facility management during the operational phase
Grievance Redress Committee	<ul style="list-style-type: none"> • To receive and find solutions to grievances

8.2 Monitoring and Reporting

At the project implementation stage, monitoring will be done to confirm the effectiveness of impact management, including the degree of success in implementing mitigation measures. During construction works, checks, reviews and inspections will be carried out to assess compliance with permit conditions. Monitoring will be done by the relevant institutions, the PCU, District Councils, National Tourist Board. A summary of impacts, mitigation, management and monitoring measures to be implemented is captured in **Table 8-3**.

Periodic monitoring reports will be prepared by the works contractor and submitted to the PCU, District Council and EPA. The monitoring reports will serve as the basis for EPA's compliance monitoring in line with the permit conditions, and verification of other environmental and social safeguard commitments.

A construction completion report, which is a compilation of outcomes of the monitoring activities, in compliance with EPA's permit conditions and for the records of the District Council, will be prepared. The completion report will form the basis for EPA's final monitoring for project completion and closure. Also, PCU will prepare quarterly monitoring reports and share with the World Bank to show the extent of compliance with E&S requirements of the EPA and the Bank for the construction period.

Table 8- 3: Environmental and Social Monitoring Plan

No.	Potential Environmental and Social Impacts	Monitoring Parameters	Monitoring Site	Frequency	Responsibility (Implementation/ Supervision)	Cost Estimate/ Year (USD)
CONSTRUCTION PHASE						
	Occupational health and safety	<ul style="list-style-type: none"> Records of accidents, incidents and near misses. Records of PPE disbursed Housekeeping 	<ul style="list-style-type: none"> Construction site 	Monthly	Environmental and Social Safeguards Specialists	3,000
	Poor labour working conditions	<ul style="list-style-type: none"> Availability of copies of signed contracts Human Resource Management Plan/Recruitment Policy Complaints lodged by workers 	<ul style="list-style-type: none"> Construction site 	Monthly	Environmental and Social Safeguards Specialists	2,000
	Soil impacts and sediment transport	<ul style="list-style-type: none"> Observable change in turbidity of water in drains or water bodies Observable oil sheen in drain Observation of rills/gullies 	<ul style="list-style-type: none"> Construction site and Immediate environs 	Monthly	Environmental Safeguards Specialist	1,000
	Air and Noise Pollution	<ul style="list-style-type: none"> Dust (PM2.5, PM10 and TSP) Emissions (NOx, SOx, TSP) Noise (dB) levels Number of complaints by residents/workers 	<ul style="list-style-type: none"> Construction site and Immediate environs 	Monthly	Environmental Safeguards Specialist	2,000
	Waste generation and disposal	<ul style="list-style-type: none"> Number of mobile toilets and dustbins provided on site Number of times waste is lifted in a week Cleanliness of site/housekeeping Odour Complaints by workers/residents 	<ul style="list-style-type: none"> Construction site and Immediate environs 	Weekly	Environmental Safeguards Specialist	-

No.	Potential Environmental and Social Impacts	Monitoring Parameters	Monitoring Site	Frequency	Responsibility (Implementation/ Supervision)	Cost Estimate/ Year (USD)
	Community/Public safety concerns	<ul style="list-style-type: none"> Grievance records Traffic related incidents/accidents Records of accidents, incidents and near misses. No. of fenced excavations No. of installed safety signages 	<ul style="list-style-type: none"> Construction site and Immediate environs 	Monthly	Environmental and Social Safeguards Specialists	-
	Public health issues	<ul style="list-style-type: none"> Number of sensitization campaigns Number of condoms distributed to Contractor's staff in a month Number of STD cases reported to local health facilities involving encounters with Contractor's staff 	<ul style="list-style-type: none"> Construction site and Immediate environs 	Monthly	Environmental and Social Safeguards Specialists	1,500
	Security and GBV concerns	<ul style="list-style-type: none"> Number of conflicts/cases reported to the Grievance Redress Committee/Community Liaison Officer Number of conflicts/cases dealt with by the Grievance Redress Committee Number of crimes such as theft, defilement and rape reported, investigated, and concluded by the police Availability of worker Code of Conduct (CoC) Training records on CoC No. of sensitization programs organized 	<ul style="list-style-type: none"> Construction site and Immediate environs 	Monthly	Environmental and Social Safeguards Specialists	3,500
OPERATIONAL PHASE						

No.	Potential Environmental and Social Impacts	Monitoring Parameters	Monitoring Site	Frequency	Responsibility (Implementation/ Supervision)	Cost Estimate/ Year (USD)
	Occupational health and safety	<ul style="list-style-type: none"> Records of accidents, incidents and near misses. Records of PPE disbursed Housekeeping 	<ul style="list-style-type: none"> Facility site 	Monthly	HSE Manager	2,000
	Poor labour working conditions	<ul style="list-style-type: none"> Availability of copies of signed contracts Human Resource Management Plan/Recruitment Policy Complaints lodged by workers 	<ul style="list-style-type: none"> Facility site 	Monthly	HSE Manager and HR Manager	3,000
	Soil impacts and sediment transport	<ul style="list-style-type: none"> Observable change in turbidity of water in drains or water bodies Observable oil sheen in drain Observation of rills/gullies 	<ul style="list-style-type: none"> Facility site and immediate environs 	Monthly	HSE Manager	-
	Air and Noise Pollution	<ul style="list-style-type: none"> Dust (PM2.5, PM10 and TSP) Emissions (NOx, SOx, TSP) Noise (dB) levels Number of complaints by residents/workers 	<ul style="list-style-type: none"> Facility site and immediate environs 	Bi-annually	HSE Manager and Community Liaison Officer	5,000
	Waste generation and disposal	<ul style="list-style-type: none"> Presence of toilets and number of dustbins provided on site Number of times waste is lifted in a week Cleanliness of site/housekeeping Odour Presence of human waste on site Complaints by workers/residents 	<ul style="list-style-type: none"> Facility site and immediate environs 	Weekly	HSE Manager and Community Liaison Officer	4,000

No.	Potential Environmental and Social Impacts	Monitoring Parameters	Monitoring Site	Frequency	Responsibility (Implementation/ Supervision)	Cost Estimate/ Year (USD)
	Community/Public safety concerns	<ul style="list-style-type: none"> Grievance records Traffic related incidents/accidents Records of all accidents, incidents and near misses. 	<ul style="list-style-type: none"> Facility site and immediate environs 	Monthly	HSE Manager and Community Liaison Officer	3,000
	Public health issues	<ul style="list-style-type: none"> Number of sensitization campaigns Number of condoms distributed to workers or placed in washrooms in a month Prevalence of STD cases reported to local health facilities 	<ul style="list-style-type: none"> Facility site and immediate environs 	Monthly	HSE Manager and Community Liaison Officer	1,500
	Security and GBV concerns	<ul style="list-style-type: none"> Number of conflicts/cases reported to the Grievance Redress Committee/Community Liaison Officer Number of conflicts/cases dealt with by the Grievance Redress Committee Number of crimes such as theft, defilement and rape reported, investigated, and concluded by the police involving workers or patrons Availability of worker Code of Conduct (CoC) Training records on CoC No. of sensitization programs organized 	<ul style="list-style-type: none"> Facility site and immediate environs 	Monthly	HSE Manager and Community Liaison Officer	3,500

9.0 DECOMMISSIONING

A Decommissioning and Site Closure Plan (DCP) is required to guard against the remote possibility that installations used for construction are abandoned or the facility ceases to operate and the installations are abandoned. Should such a circumstance arise, the potential would exist for impacts from abandonment of the facility such as aesthetic impacts and potential trespassing and safety concerns. This DCP is being posted to provide a guide on details of the decommissioning activities. The purpose of this conceptual DCP is to describe the general objectives for the post project land use, and the planning processes leading to development of a final DCP.

The specific objectives in managing the decommissioning process will be:

- To ensure that rehabilitation and decommissioning are carried out in a planned sequential manner, consistent with best practice;
- To ensure that agreed post-project land-use outcomes are achieved; and
- To avoid on-going liability

A Full Decommissioning Report is expected to be prepared in the event of any such activity for approval by the EPA and any other requisite state agencies.

9.1 Pre-Decommissioning Assessment

Prior to any decommissioning, the EPA will be notified and an assessment will be carried out to identify any potential environmental impacts that need to be addressed and mitigated in the decommissioning process.

9.2 Decommissioning Phase Activities

9.2.1 *Dismantling and Removal of Structures and Equipment*

During decommissioning activities, the respective Planning Department and the EPA office shall have access to the site, pursuant to reasonable notice, to inspect the results of complete decommissioning.

The removal of installations, structures, and equipment would include a complete inventory of all hardware and capturing of their final operational status. This exercise will require the as built drawing to guide the process. Disposal of the hardware and documentation would be planned, including any environmental concerns that may dictate disposal method.

All decommissioning and restoration activities will be in accordance with all applicable state and local permits and requirements and will include the following specific activities:

- **Hardware retirement:** All power sources would be disconnected from structures and equipment before dismantling commences. Cranes and/or other machinery will be used for the disassembly and removal of structures and associated installations. These will either be transported whole for reconditioning and reuse or disassembled into salvageable, recyclable, or disposable components;

- **Foundation removal:** All foundation materials will be removed as per EPA guidelines or requirements. The remaining excavation will be filled with clean sub-grade material, compacted to a density similar to surrounding sub-grade material, and finished with topsoil;
- **Monitoring:** A monitoring and remediation period of two years immediately following the completion of any decommissioning and restoration activities will be undertaken.
- **Area restoration:** Areas where subsurface components are removed will be graded to match adjacent contours, stabilized with an appropriate seed mix, and allowed to re-vegetate naturally. All town roads, impacted by Project decommissioning activity, if any, will be restored to original condition upon completion of decommissioning.

9.2.2 *Solid Waste Management*

All solid waste resulting from the decommissioning process will be evacuated by certified handlers commissioned by the Municipal Solid Waste Department.

9.3 Post-Decommissioning Assessment

Removal of machinery, equipment and all other materials related to the project will be completed within one year of decommissioning. At the end of the decommissioning exercise, the EPA will be invited to carry out a post-decommissioning assessment to establish compliance with all regulatory requirements and issue a certificate to that effect. The Decommissioning and Closure Plan will be finalized and submitted to the relevant authorities for approval at least six months prior to closure of the site.

A report describing the performance of the final DCP in working towards its objectives, based on monitoring results, and the extent to which it has been complied with, will be submitted to the EPA. The report will be provided to documented stakeholders and will otherwise be publicly available on request. Files and documents used to collate information regarding closure commitments, licenses, approvals and other information concerning closure will be catalogued and maintained in accordance with standard practices.

10.0 CAPACITY BUILDING AND TRAINING

10.1 Major Institutions

The main institutions to be involved with the implementation of the project and to ensure sound management of the environmental and social aspects include:

- Ministry of Tourism and Cultural Affairs
- Ministry of Trade and Industry
- Ministry of Lands, Country Planning and the Environment
- Environment Protection Agency of Sierra Leone
- National Tourist Board and
- Project Coordinating Unit

10.2 Capacity Building Requirements

Project institutions need to understand the purpose of the ESMP, their expected roles and the extent to which the ESMP will facilitate the respective statutory functions. This will engender the required collaboration for the ESMP implementation.

Competence of government i.e., the ability of active government parties to carry out their respective design, planning, approval, permitting, monitoring and implementation roles will, to a large extent, determine the success and sustainability or otherwise of the project.

The objectives and provisions of the ESMP therefore cannot be achieved in the absence of relevant competencies on environmental and social management within the Ministry of Tourism and Cultural Affairs, the project contractor and other stakeholders. The following sections provide recommendations on capacity building to support the program's environmental and social management objectives.

Identification of Capacity Building Needs

The first step in pursuing capacity building will be to identify the capacity building needs of the various stakeholders. Capacity building should be viewed as more than training. It is human resource development and includes the process of equipping individuals with the understanding, skills and access to information, knowledge and training that enables them to perform effectively. It also involves organizational development, the elaboration of relevant management structures, processes and procedures, not only within organizations but also the management of relationships between the different organizations and sectors (public, private and community).

The capacity building requirements will mostly be in the form of training workshops as follows:

(1) A training workshop on the E&S Safeguards should be organized for the major stakeholders identified above.

(2) A training workshop for the key project implementers including the Ministry of Tourism and Cultural Affairs, PCU, NTB and EPA should cover the following:

- Inclusion of environmental and social mitigation measures & penalties in contract documents of contractor and contractor supervision;
- Environmental screening and monitoring; and
- Public/community participation techniques and procedures.

For each group, training will be provided at different level of expertise in different areas, and would include:

- In-depth training to a level that allows trainees to go on to train others, including environmental and social procedures where relevant; and
- Sensitization or awareness-raising in which the participants are familiarized with the significance or relevance of the issues, to the extent that they can identify potential or emergent problems and request further assistance as necessary.

10.3 Public Engagement/Sensitization

In order to ensure proper implementation of the project, and to avoid public agitations/litigations which could affect the project execution, the Ministry of Tourism and Cultural Affairs and Local Councils should engage/sensitize the public, particularly those whose property or livelihood may be affected. The engagement/sensitization should include the schedule of implementation, relocation and compensation processes for any affected persons, grievance redress mechanism, traffic management, etc. The public engagement/sensitization should be carried out ahead of construction works and any grievances addressed.

11.0 PUBLIC CONSULTATIONS AND DISCLOSURE

The ESIA preparation included preliminary stakeholder identification, some initial consultations and analysis of the requirements with key stakeholders. The key project stakeholders identified for consultations included government and non-governmental organizations. Stakeholder consultation is a process and should continue through the design stage of the project implementation phase.

11.1 Objectives of the consultations

The main objective of consultations with stakeholders is to discuss and provide relevant information on the project. Specifically, to achieve the following objectives:

- Provide information about the proposed project;
- Provide opportunities for stakeholders to discuss their opinions and concerns;
- Provide and discuss with stakeholders, alternatives considered to reduce anticipated impacts;
- Identify and verify significance of environmental, social and health impacts; and
- Inform the process of developing appropriate mitigation and management guidelines.

11.2 Stakeholders Identified

The stakeholders identified for consultations are as follows:

Project Proponent/Beneficiary

- Ministry of Tourism and Cultural Affairs
- Project Coordinating Unit

Regulatory Institution

- Environment Protection Agency
- National Tourist Board

Other Government Institutions

- Ministry of Trade
- Ministry of Lands

Other stakeholders

- Local Committee Members
- Councillors
- Headmen
- Focus groups including Community Youth, Women, Traders etc. Community meetings had representation from vulnerable groups i.e. the elderly and persons with disability.

11.3 Outcome of Consultations

A summary of the outcome of the initial consultations is provided below. These are mostly concerns and suggestions/interventions from institutions and individuals engaged.

Stakeholder Consultation and Community Entry	<ul style="list-style-type: none"> • Engagement of political and community leadership for their buy-in is key to ensuring the sustainability of the project • Stakeholder engagement is key and should reflect in the EIA • Community entry has to be done right i.e. through the local council
Project Ownership/Facility Management	<ul style="list-style-type: none"> • The Ministry of Tourism and Cultural Affairs should own the project as it is better placed to coordinate with other Ministries who are involved e.g. Ministry of Trade • Regulators are of the view that management of the facilities should not be left to the communities. Instead, private sector players should be engaged as past experience has shown that communities could mismanage such projects e.g. Banana Island • Communities can benefit from the improved economic activities that will come with the project implementation. • Locally, the community believes that with some capacity building and training, they can efficiently manage the proposed facility.
Livelihood support	<ul style="list-style-type: none"> • Livelihood support considerations must be integrated into the project as it has the potential to reduce environmental degradation such as sand winning and deforestation as well as crime and conflicts.
Social Issues and Gender Based Violence	<ul style="list-style-type: none"> • NTB's initiative of employing the local youth as Beach Marshalls to provide security services could be extended to the project site. • Sensitization of workers and community is key in reducing gender-based violence cases
Environment, water and sanitation Issues	<ul style="list-style-type: none"> • Sand winning/mining in neighboring communities should be checked as could affect the sustainability of the project • The issue of deforestation can be dealt with by providing alternative livelihoods • Development of a good water supply system and toilets to improve sanitation and public health

Access to Finance

- Requirements of financial institutions should be reviewed to allow to SMEs (beach bar operators, souvenir sellers, taxi drivers, tour guides etc.) that constitute about 60-70% of industry players access finance.
- High interest rates and stringent requirements, which are prohibitive, must be checked to enable local entrepreneurs grow their businesses.
- SMEDA's funding and logistical challenges should be addressed so they can use their national network to reach SMEs across the nation with affordable credit.

Training

- A capacity assessment and capacity building targeting locals should focus on areas such as Accounting, Marketing and Management for locals to benefit from key employment opportunities at the operation phase
- A skills development center should be established to train locals especially youth and women and also provide them with some capital to start business
- The capacity of Implementing institutions should also be built especially in the E&S safeguards area

Project Implementation and Monitoring

- An ecotourism plan should be developed to address issues of wildlife and forest protection, sand mining, stone breaking, natural disaster management, development of additional tourism attraction to mitigate environmental concerns.
- The project must go through the EIA process to ascertain its impacts
- Proponents are required to submit a completed application and screening form to adequately categorize the project
- Stakeholder engagement is key and should reflect in the EIA
- The Member of Parliament (MP) should be involved in the monitoring of project implementation as well as addressing in resolving grievances

Details of stakeholder engagements are captured in **Table 11-1 below**.

Table 11- 1: Details of Stakeholder Engagement

Stakeholder/ Institution/ Location	Contact Person(s)	Role	Contact No.	Date	Concerns Raised/ Information Received
Ministry of Tourism and Culture	Dr. Memunatu B. Pratt Mohamed Jalloh	Hon. Minister Director of Tourism	+232 76 604 716 +232 76 522 838	14/09/2021	<ul style="list-style-type: none"> • The project will be owned by the Ministry of Tourism and Culture as the ministry is the main beneficiary. However, there are other components (Component 2 – Business enhancement) that will be handled by the Ministry of Trade through SMEDA. • The project will be a self-financing one. • In managing the facilities, contractual agreements will be entered into with private sector players to invest and manage the facilities through PPP arrangements. • Land ownership is not an issue as all lands earmarked for the project are state lands and legally vested in the Ministry of Lands who have also handed over these lands to the Ministry of Tourism. This is consistent with the National Tourism Act which gives ownership of beaches to the Ministry of Tourism. • For future expansion, the Ministries of Tourism and Lands will liaise to compensate project affected persons, where necessary. • Locals in the project areas will benefit from trainings organized the Ministry of Tourism in waste management and tourism security to provide these services at the operational phase • Consideration must be given to environmental issues such as the effects of climate change and waste management • Alternative livelihood considerations must be integrated into the project • Engagement of political and community leadership for their buy-in to ensure the sustainability of the project • An ecotourism plan should be developed to address issues of wildlife and forest protection, sand mining, stone breaking, natural disaster management, development of additional tourism attraction to mitigate environmental concerns.
National Tourist Board	Umaru Woody	Planning and Development Manager	+232 76 286 507 +232 25 216 345	15/09/2021	<ul style="list-style-type: none"> • The Board is the implementing agency of the Ministry of Tourism. It is also responsible for the classification and inspection of tourist sites and facilities as well training industry players. • There are sometimes overlapping roles hence the Ministry is sometimes seen to make policies and do implementation as well • However, this challenge will be dealt with by the Tourism and Financial Management Strategy that clearly defines roles of all the industry stakeholders

Stakeholder/ Institution/ Location	Contact Person(s)	Role	Contact No.	Date	Concerns Raised/ Information Received
					<ul style="list-style-type: none"> On ownership of the project, the Board is of the opinion that the Ministry of Tourism and Culture should own the project as it is better placed to coordinate with other Ministries who are involved e.g. Ministry of Trade Management of the facilities should be left to private sector players as past experience has shown that communities could mismanage such projects e.g. Banana Island Communities can benefit from the improved economic activities that will come with the project implementation. Currently, the Board's initiative of employing the local youth as Beach Marshalls to provide security services could be extended to the project sites and provide the youth with employment opportunities. This could become a Tourism Police Force in future For locals to contribute meaningfully to the management of facilities, a capacity assessment must be done and capacity building should focus on areas such as Accounting, Marketing and Management Access to finance is a major challenge to SMEs that constitute about 60-70% of players (beach bar operators, souvenir sellers, taxi drivers, tour guides etc.) within the tourism value chain. High interest rates and stringent requirements tend to be prohibitive. Socially, there have been some cases of gender based violence (GBV) i.e. sexual harassment at tourist sites but it is not rampant.
Small and Medium Enterprises Development Agency (SMEDA)	Melvin H. Foray Medely M. Mansaray	Enterprise Development Manager Monitoring and Evaluation Manager	+232 78 284 374 +232 76 137 755	09/09/2021	<ul style="list-style-type: none"> The role of SMEDA is to provide access to low-cost finance, business development including access to markets, training support, building SME observatory and database, ecosystem mapping, policy advocacy and coordination of government SME activities. Enterprises are categorized based on their annual revenue. Small enterprises are those with less than 100 million Leones annual revenue while Medium enterprises are those with 100 to 500 million Leones revenue. SMEDA has been engaged right from the beginning of the project especially because Component 2 borders on the creation of the environment for business growth. SMEDA has presence in 4 regions including the regions (headed by Regional Coordinators and assisted by Field Officers) where the projects will be implemented. Current total staff strength is 32 including regional staff. SMEDA's flagship project is the MUNAFA Fund serving over 5,000 SMEs using Ecobank as a financial intermediary

Stakeholder/ Institution/ Location	Contact Person(s)	Role	Contact No.	Date	Concerns Raised/ Information Received
					<ul style="list-style-type: none"> • Trainings are organised for SMEs especially on sound investments as well as MMDAs on capacity building. • Funding agencies include AU, GIZ • Monitoring and evaluation is done through Mid-term review to assess progress together with the Financial Service Providers (FSPs), who are currently 10 in number, periodic visits to SMEs and monitoring of SME database. • Major challenges include insufficient funding and logistical challenges • Clarity was sought on how the facilities, when done, will be managed
Environment Protection Agency	Momodu A. Bah Lamin Tarawalli Sheikh A. Tunis Aiah Wurie Kembay	Director Deputy Director Dep. Director PPR Assistant Director	+232 78350627 +232 79636797 +232 79118276 +232 78463417	06/09/2021	<ul style="list-style-type: none"> • The project must go through the EIA process to ascertain its impacts • Proponents are required to submit a completed application and screening form to adequately categorize the project • Stakeholder engagement is key and should reflect in the EIA • The challenge of bad access roads to beaches is a common problem and the upgrade proposed by the project is welcome.
Member of Parliament for Constituency 110	Hon. Khadijatu Davies	Member of Parliament	+232 76604774 +232 76430066	14/09/2021	<ul style="list-style-type: none"> • The project will be beneficial as the area lacks development • Hopes that facilities are spread to reach other underserved communities • Local content in terms of job creation for locals must be addressed • MP should be involved in implementation and monitoring • Sand mining is adversely impacting the environment in neighbouring communities, John Obey and Hamilton • Project is expected to provide opportunities for the youth and take them away from sand mining which is environmentally degrading • Some security issues exist within sand mining communities • Access to finance is a challenge due to high interest rates.
River No. 2 Community	Joseph Jalloh George Hope Bashiru Koroma Alie Kamara	Headman Exec. Cttee. Member Exec. Cttee. Member Secretary	+232 88954631 +232 80631335 +232 78638092 +232 88975218	10/09/2021	<ul style="list-style-type: none"> • The proposed project will be useful as it will present opportunities for community development • The road upgrade will improve access to the beach facility • Some environmental challenges within the community are deforestation and poor waste management. However, the deforestation problem can be addressed through the provision of alternative livelihood

Stakeholder/ Institution/ Location	Contact Person(s)	Role	Contact No.	Date	Concerns Raised/ Information Received
	Noah E.B. Thorpe	Secretary	+232 30408032		<ul style="list-style-type: none"> Currently, there is no sand mining activity along the beach as a fine of USD 25 is slapped on any culprit. Considering that the locals have shown the ability to manage the beach facility, the expectation is that the proposed development will still be community managed to transform the lives of the local people. Building the capacity of locals in management will help them manage both the facility and the associated businesses well. The community has a very large female population as a lot of women migrate from neighbouring communities to do fish mongering in River No. 2 Access to affordable credit remains a challenge for most of these women and other SMEs. Addressing this issue will bring about economic development
	Suleman Kargbo	Youth Leader	+232 31247111		
	Abibatu Bill	Chairlady	+232 30768611		
	Sheikh Musa Bangura	Exec. Cttee. Member	+232 77806152		
	Francis K. Kappia	Exec. Cttee. Member	+232 76347314		

Some photographs taken during the stakeholder engagements are presented below (**Plates 11-1 to 11-3**):



Consultation with the Minister of Tourism



Meeting with the PCU

Plate 11- 1: Meetings with Project Proponents



Interaction with the National Tourist Board



Engagement with the EPA



Meeting with Officials of SMEDA



Meeting with the Member of Parliament for the Area, Constituency 110

Plate 11- 2: Meetings with representatives of Government Institutions



Plate 11- 3: Community Engagement

11.4 Grievance Redress Mechanism

Grievances can be an indication of growing stakeholder concerns (real and perceived) and can escalate if not identified and resolved. The management of grievances is therefore a vital component of stakeholder management and an important aspect of risk management for a project. Grievances and disputes that may arise during the course of implementation of the EDP will be related to the following issues among others:

- Siting of the project/subproject;
- Mistakes in inventorying or valuing properties;
- Disagreement on property boundaries, either between the affected person and the expropriation agency or between two neighbours;

- Disputed ownership of a given asset (two or more affected people claim that the affected asset is theirs);
- Disagreement on asset valuation methods and compensation amounts in cash or in-kind;
- Successions, divorces, and other family issues resulting in disputed ownership or disputed shares between inheritors or family members;
- Disagreement with the computation of the resettlement or livelihood assistance or transportation cost;
- Claims by people who relocated on their own after receiving notification about the project and the likelihood of impact on their activities; and
- Delays in resolving complaints of PAPs.

The general steps of the grievance process comprise the following which will include a feedback process for complainants to get responses within agreed time frames:

- Registration/receipt of Complaints;
- Determining and Implementing the Redress Action;
- Verifying the Redress Action;
- Monitoring and Evaluation; and
- Dissatisfaction and Alternative Actions.

Registration/ receipts of complaints

The PCU will establish a register of resettlement/compensation related grievances and disputes. The receipt of complaints will include its logging and registration as this will help with monitoring the status of the grievances and ease reporting on them. The existence and conditions of access to this register (where, when, how) will be widely disseminated within the project community/town as part of the consultation undertaken for the project in general.

For the tourist project sites, the complaints will be lodged verbally or in writing directly by the affected person or through the local Headman/woman to the District Council Office representative designated to receive all complaints. A designated member of the Ward Committee for the project area could also receive complaints from PAPs (because the Ward Committee is within the community and is closer to the PAPs and some PAPs may prefer to route their complaints through the Committee and avoid undue transport and time cost to the District office). The Committee will ensure that such complaints reach the District Office representative designated to receive complaints within 24 hours via phone call or through any other means. The person assigned the responsibility at the District Council shall receive all complaints and shall officially register these complaints using the first section of the proposed complaint registration and resolution form provided in **Annex 2**. The District Council representative will inform the National Tourist Board representative (officer/ warden) on the Grievance Redress Team within 24 hours on any complaint lodged.

At the Solution Centers, the SMEDA safeguard person will be in regular contact with the operators of the Centers to ensure that any complaints are dealt with within designated time periods.

For cases involving gender-based violence, the GBV outreach staff who will be stationed in project communities will intervene and ensure that satisfactory actions as proposed in this ESIA, are taken to support the survivor.

Determining and implementing the redress action

When a grievance/dispute is recorded as per above-mentioned registration procedures, the Grievance Redress Team (GRT) will be called into action, and mediation meetings will be organized with interested parties. Minutes of meetings will be recorded.

The GRT will first investigate the foundation of the grievance and then determine the redress action in consultation with the complainant and concerned party if necessary. Otherwise, the grievance redress team will communicate to the complainant on the acknowledgement of the grievance, the redress action proposed and the timeframe for implementation.

The proposed redress action and the timeframe in which it is to be implemented will be discussed within 5 working days of receipt/registration of the grievance. The grievance issue should be resolved within 10 working days of receipt of complaints.

Verifying the redress action

The grievance redress team will visit the affected property site or get in touch with the complainant to confirm that the redress action is carried out. If the complainant is dissatisfied with the outcome of the redress proposal or action, additional steps may be taken to resolve the issue or reach an amicable agreement. Verification should be completed within one week of execution of the redress action.

Monitoring and Evaluation

The Monitoring and Evaluation Team will monitor the activities of the Grievance Redress Team to ensure that complaints and grievances lodged by PAPs are followed-up and resolved amicably as much as possible.

Dissatisfaction and Additional Steps

2nd Tier Amicable Mediation and Settlement

If the complainant is not satisfied with the decision of the grievance redress team, he/she can bring it to the attention of the Safeguard Officer at the PCU to draw the attention of PCU to the unresolved grievance. Otherwise, the GRT should forward the issue directly to PCU for further action. The PCU in consultation with the Ministry of Finance will set up an appropriate mediation team to resolve the issue within 2 weeks from the date of receipt of such a decision by PCU. If such a time line is not possible, the PCU should inform the GRT and the complainant accordingly giving reasons and possible new date.

Appeal to Court

If the complainant remains dissatisfied with the mediation effort of EDP PCU and the MTCA/ SMEDA, the complainant has the option to pursue appropriate recourse via judicial process in Sierra Leone. The Constitution allows any aggrieved person the right of access to Court of law. Courts of law will be a “last resort” option, in view of the above mechanism.

Membership, Function and Financing of the GRT

The Grievance Redress Team (GRT) will include the following:

- Representative of the National Tourist Board (Officer/ Guide/ Warden)
- Representative of the relevant District Council;
- Representative of the Ward Committee for the project area; and
- Representative of the traditional authority.

The Tourist Board and the District Council should ensure that at least one of the GRT members is a woman. In addition to the main function of resolving grievances, disputes, complaints and conflicts, the GRT will also:

- i. Ensure smooth implementation of the resettlement instrument;
- ii. Establish dialogue with the PAPs; and
- iii. Ensure that their concerns and suggestions are incorporated and implemented during the project.

The grievance redress teams will be made known or be set up as soon as land acquisition or resettlement plan preparation starts. Disputes can arise from census operations and preliminary siting of subprojects and it is therefore important that the mediation mechanisms be available to cater for claim, disputes and grievances at the early stage. The activities of the GRT will be financed by PCU.

The GRM would have specific procedures for GBV including confidential reporting with safe and ethical documenting of GBV cases. Parallel GRM outside of the project GRM may be warranted for substantial to high-risk situations.

The grievance management guide is provided in the table below.

Table 11- 2: Grievance management guide

Steps	Process	Description	Timeline Maximum	Other information
1	Identification of grievance	Face to face; phone; letter, e-mail; recorded during public/community interaction; others	1 Day	Email address; hotline number
2	Grievance assessed and logged	Significance assessed and grievance recorded or logged (i.e. in a log book)	4-7 Days	Significance criteria Level 1 –one off event; Level 2 – complaint is widespread or repeated; Level 3- any complaint (one off or repeated) that indicates breach of law or policy or this ESMF/RPF provisions

Steps	Process	Description	Timeline Maximum	Other information
3	Grievance is acknowledged	Acknowledgement of grievance through appropriate medium	7 Days	
4	Development of response	-Grievance assigned to appropriate party for resolution -Response development with input from management/ relevant stakeholders	4-7 Days 10-14 Days	
5	Response signed off	Redress action approved at appropriate levels	4-7 Days	Senior management staff of MoF should sign off
6	Implementation and communication of response	Redress action implemented and update of progress on resolution communicated to complainant	10-14 Days	
7	Complaints Response	Redress action recorded in grievance log book Confirm with complainant that grievance can be closed or determine what follow up is necessary	4-7 Days	
8	Close grievance	Record final sign off of grievance If grievance cannot be closed, return to step 2 or refer to sector minister or recommend third-party arbitration or resort to court of law	4-7 Days	Final sign off on by MoF

A flow chart depicting the process is given below:

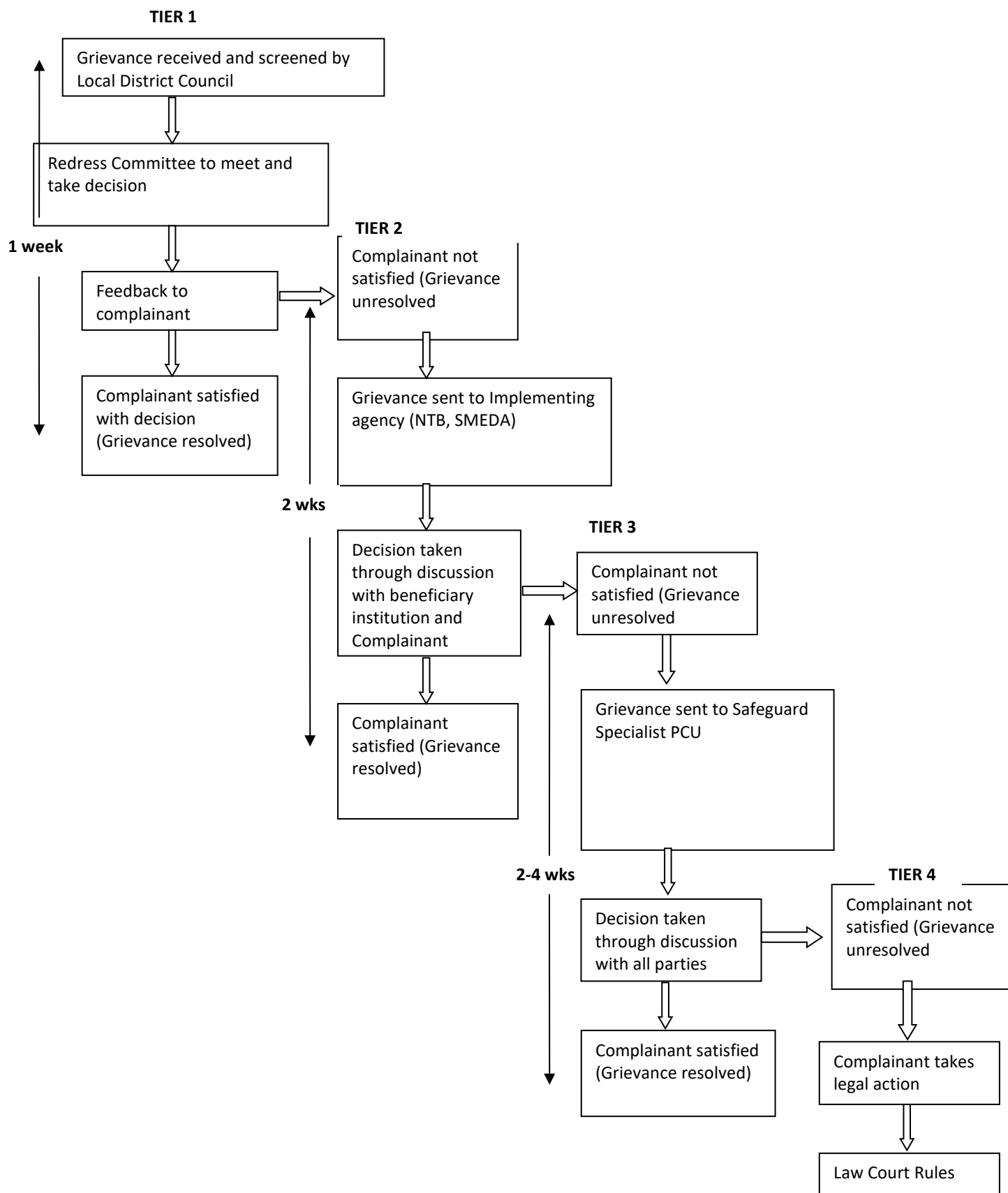


Figure 11- 1: Procedure for Grievance Redress

12.0 ESMP IMPLEMENTATION BUDGET

Budgetary estimates are provided in **Table 12-1** below to support the implementation of the environmental and social management plan. The estimated budget is **USD 52,000**.

Table 12- 1: Estimated budget to implement ESMP

No	Activity	Description	Unit cost, US\$	No.	Total Cost, US\$
1.	Awareness creation on Project	Stakeholder engagement	Lump Sum (LS)	-	3,000
2	ESMP Disclosure	Distribution of documents to key stakeholders and publications in at least two national dailies (public) and one private newspaper	LS	-	3,000
3	Capacity building for key stakeholders	Training workshop on National and WB requirements, EIA procedures, social measures and incorporating environmental and social measures etc. in contract documents.	3,000	2	6,000
4	Public engagement/sensitization	Sensitization and engagement of project affected persons	LS	-	7,000
5	ESMP Project Management	Coordination and reporting	10,000	-	10,000
6	Monitoring and evaluation	Hiring of consultants and preparation of reports	LS	-	13,000
7	Decommissioning	Dismantling and removal of structures and equipment and waste disposal	LS	-	10,000
	TOTAL	ESMP IMPLEMENTATION	-	-	52,000

CONCLUSION

Implementation of the proposed project, Enhancing River No. 2 Beach Experience, in the Western Area Rural District of Sierra Leone is expected to be in accordance with relevant national laws as well as best international practices.

Upon assessment, it is evident that the project generally has moderate environmental and social impacts. These impacts could be further mitigated with the adoption of good health, safety and environment practices. Occupational, public health, safety and security issues and impacts will be properly managed to prevent any serious incident/accident or conflict. Compensation issues will be minimised through community sensitisation and extensive engagement with affected persons.

Negative impacts will be minimised with the implementation of the proposed mitigation measures and residual impacts contained and controlled by implementing environmental management plan included in this report. Stakeholder concerns arising out of the public consultation and involvement process will be properly handled or addressed and further consultations will continue during the implementation stage.

The project will obviously benefit the local community through job creation, growth of businesses especially SMEs, better social services etc. The government will also benefit from increased revenue from taxes, foreign direct investment, reduced unemployment rate and a general improvement in the economy. Stakeholders are therefore urged to ensure that the outlined benefits accrue to the beneficiaries which includes the local community and government.

ANNEXES

Annex 1	Air Quality, Noise Assessment and Surface Water Testing at River No. 2
Annex 2	Sample Grievance Form
Annex 3	Public Disclosure of ESIA Report for the River No. 2 Beach Project
Annex 4	Chance Find Procedure



ENVIRONMENTAL LABORATORIES

Ministry of Finance

SLEDP

**AIR QUALITY, NOISE ASSESSMENT AND
SURFACE WATER TESTING AT RIVER
NO.2 BEACH**



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ACRONYMS

LEQ	- Equivalent noise level
L10	- Nuisance noise level
L50	- Average noise level
L90	- Background noise level
Lmax	- Maximum Noise Level
PM	-Particulate Matter
SLS	-Sierra Leone Standards

1.0 INTRODUCTION

1.1 Background

Many developing countries look at tourism as a potential key economic driver. Global tourism growth worldwide translates into job creation in many economies. In Sierra Leone, many tourism assets, particularly its natural heritage, have high potential compared to the sub-region, but the lack of facilities and services and the poor enabling environment and international image are critically inhibiting the sector's growth. Therefore, Sierra Leone's tourism sector remains in a pre-emergent stage.

The World Bank Group (WBG) is assisting the Government of Sierra Leone to improve the tourism business environment, enhance market access and improve tourism products and services through the Sierra Leone Economic Diversification Project (project id P164212).

A total of Six (6) sites have been selected for the project namely, Tacugama Chimpanzee Sanctuary, River No.2 Beach, Bureh Beach, York village, Leicester peak and Bonthe. Figure 1 below shows the geographic distribution of the six selected destinations.

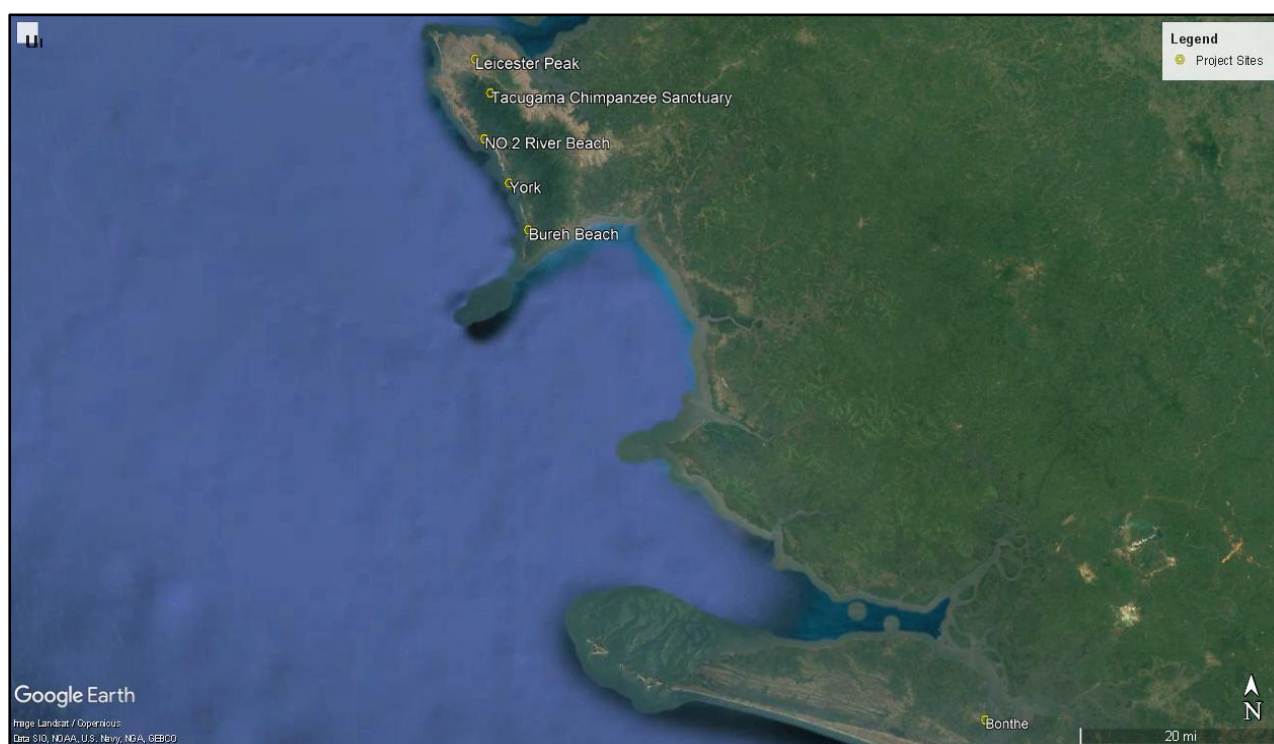


Figure 1: Geographic distribution of the six destinations

The project aims to increase investment and entrepreneurship in non-mining productive sectors, including tourism. In this area, the proposed project will take an integrated destination approach to improving the performance of Sierra Leone's tourism sector.

SAL Consult Ltd has been contracted to carry out the Environmental and Social Impact Assessment study which includes a baseline study for air quality, noise assessment and water quality. The field

activities were undertaken between 10th October, 2021 and 27th October, 2021 and this report provides the outcome of the field study at River No. 2.

1.2 Purpose of Environmental Quality Monitoring

The aim of this monitoring is therefore to gather relevant environmental quality data with respect to Ambient Air, Noise Levels and Water Quality to describe baseline conditions at the project site. The data gathered will provide useful information to help monitor its operational impacts on the environment, health and safety of its employees and surrounding neighbours.

1.3 Objective

The objectives of the monitoring are to:

- Measure the concentration of particulate matter (PM_{2.5} & PM₁₀) at selected locations within the project catchment area
- Measure ambient noise levels at selected locations within the project catchment and neighbouring communities.
- In-situ testing of nearest water bodies for the following parameters
 - pH;
 - Conductivity;
 - Total Dissolved Solids; and
 - Temperature

1.4 Sampling Location and Weather conditions

River No. 2 Beach is a white sand beach with strong environmental and landscape values, 28 km from Freetown. It is accessed via the Peninsular Highway. From the junction, an unpaved road of approximately 500 m leads to the beach. as shown as figure 2.

The specific monitoring sites were chosen based on either or all of the following criteria:

- Accessibility to unrestricted air flow to the sampling units;
- Suitability of location as a collection point of representative samples for baseline air quality and noise level; and
- Potential of future air quality and noise levels impacting on the employees and the neighbouring environment.

Air/Noise Monitoring was done from the 19th October, 2021 to 21st October, 2021. Particulate matter and noise were all monitored at the same time thus all parameters were monitored under the same weather conditions. The weather showed intermittent cloud with humidity (76%-85%), Temperature (28°C-29°C), and wind direction and speed (West, and South west at 6km/h for both respectively) on the days of measurement.



Figure 2: Project Location

Table 1: Details of Air and Noise sampling locations and weather conditions.

	DATE AND TIME		SAMPLE CODE	GPS LOCATION			WEATHER CONDITION			
	DATE	TIME		Longitude	Latitude	Link to location	Temp.	Relative Humidity	Atmospheric condition	Wind Direction and Speed
PM10	19/10/2021-20/10/2021	24HRS	AQ1A	-13.20426389	8.33485000	CTRL + Click to view	22°C	85%	cloudy	W @ 6km/h
PM2.5	20/10/2021-21/10/2021	24HRS	AQ1B	-13.20426389	8.33485000	CTRL + Click to view	31°C	75%	Partly Cloudy	SW @ 6km/h
NOISE ASSESSMENT ON PROJECT SITE	19/10/2021	24HRS Daytime monitoring- 6:00am-10:00pm and Nighttime monitoring- 10:00pm- 6:00am.	NA1A	-13.20434167	8.33872222	Ctrl + click to view	22°C	85%	cloudy	W @ 6km/h
NOISE ASSESSMENT NEAREST RESIDENCE	20/10/2021	24HRS Daytime monitoring- 6:00am-10:00pm and Nighttime monitoring- 10:00pm- 6:00am.	NA1B	-13.20434167	8.33872222	Ctrl + click to view	31°C	75%	Partly Cloudy	SW @ 7km/h

Table 2: Details of water testing locations

	Date	Sampling code and description	Longitude	Latitude	Link to Location
WATER TESTING	20/10/2021	WQ1-Weir	-13.203521	8.347607	CTRL + Click to view
		WQ2-Mid Stream	-13.2041717	8.3464811	CTRL + Click to view
		WQ3-Down Stream	-13.205520	8.343698	CTRL + Click to view

2.0 ENVIRONMENTAL MONITORING METHODOLOGY

The methodology for sampling the various parameters are discussed in this section. Particulate matter and noise were both monitored at the same time; thus all parameters were monitored under the same weather conditions.

2.1 Particulate matter monitoring

The sampling and analysis of ambient particulate matter concentrations was done according to the ASTM Test Method D4096-17.

Particulate matter was sampled for 24 hours using ARA N-FRM Air Sampler set to a flow rates of 16.7 L/min. The sampler draws air through the inlet onto a 47mm quartz filter for analysis. The quartz filter paper was stabilized for a minimum of 24 hours before and after sampling in a desiccator.

The fresh quartz filter paper was weighed before sampling. After the 24-hour sampling period, post sampling filters were weighed and the difference in weight (W2-W1) was used to calculate the concentration of the particulate matter in $\mu\text{g}/\text{m}^3$ using the formula below.

$$(\text{PM}_{2.5} \text{ \& } \text{PM}_{10}) \mu\text{g}/\text{m}^3 = \frac{\text{Net dust weight} * 10^6}{\text{Flow rate (L/Min)} * \text{Sampling time (Min)}}$$

Photo of equipment mounted at the selected locations for PM_{10} and $\text{PM}_{2.5}$ sampling is provided in Plates 1 & 2 below:



Plate 1: ARA N-FRM Sampler PM_{10} Setup and monitoring at River No.2



Plate 2: ARA N-FRM Sampler PM_{2.5} Setup and monitoring at River No.2

2.2 Ambient Noise

Sound is energy that travels in waves and is measured in frequency and amplitude. Frequency, reported in Hertz (Hz), measures the number of sound vibrations in one second. Amplitude, reported on the decibel (dB) scale, measures its pressure or forcefulness. The more amplitude a sound has, the louder it is.

A decibel (dB) is therefore the unit for the measurement of noise. The zero on a decibel scale is at the threshold of hearing, the lowest sound pressure that can be heard on the scale 20 dB which is a whisper, 40 dB the noise in a quiet office, 60 dB is normal conversation, 80 dB is the level at which sound becomes physically painful.

Noise measurements/recordings were taken with a High Precision TSI Quest Sound Level Meter, Model Type 1. The sound level meter has an in-built calibrator, and was calibrated before each measurement/recordings were taken at each site. The noise meter was calibrated at 114 dB (A) prior to the measurement. Photo of equipment mounted at the selected locations for noise monitoring is provided in Plates 3 & 4 below:



Plate 3: Noise Assessment at Nearest residence



Plate 4: Noise Assessment at the Project Site

2.3 Water Sampling

The stream which is approximately 1 km away from the project site is the main water body within the project area of influence and the potential recipient of any pollution impact from the project site.

This is a relatively clean surface water, which serves as source of water to some communities for cooking, drinking, washing and farming.

The Stream was tested on the 20th October, 2021 at 11:30am. Parameters including Temperature, pH, TDS and Conductivity were measured in-situ by means of field kit (Plate 3). Calibration reagents are used to calibrate the Field Test Kit before each use.

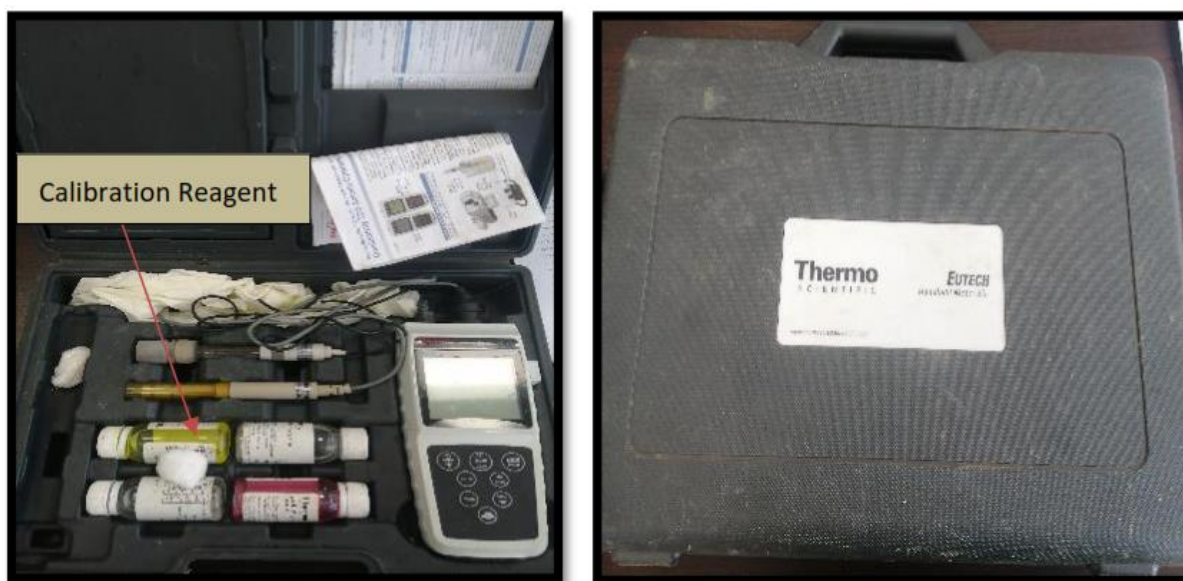


Plate 5: Thermo Scientific EUTECH Handheld Meter Kit



Plate 6: water testing

3.0 RESULTS AND DISCUSSIONS

3.1 Air Quality

The ambient air quality and noise monitoring results are provided in Tables 3 and 4 below.

3.1.1 Ambient Particulate Matter (PM_{2.5}, and PM₁₀)

The 24-hour PM_{2.5} and PM₁₀ concentrations measured at River No. 2 were 12.38 µg/m³ and 23.10 µg/m³ respectively. (See **table 3**). These values are within the Sierra Leone Standards (SLS 42:2014) and WHO guideline values.

Table 3: Ambient PM_{2.5} and PM₁₀ Measured at River No.2.

Location	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
River No. 2 Project Site	12.38	23.10
Sierra Leone Standards (SLS 42:2014)	25	50
WHO Ambient Air Quality Guidelines for 24-hour for PM ₁₀ and PM _{2.5} (Source:www.ifc.org/ehsguidelines)	25	50

3.2 Ambient Noise

3.2.1 Daytime Ambient Noise Levels

The daytime ambient noise levels (LEQ) recorded were 55.0 and 66.1 dB(A) at the River No. 2 project site and the nearest residence respectively (see **Table 4**). The daytime ambient noise levels(dBA) for River No. 2 site was within the Sierra Leone Standards (SLS 83:2019) mixed residential and IFC LA_{EQ} guideline value for Residential, Institutional, Educational and Industrial commercial facilities.

The daytime ambient noise levels(dBA) for the nearest residence was above the SLS and IFC LA_{EQ} guideline value this was mainly because of sounds from the engines of cars passing, intermittent chatter from pedestrians passing by during the time of assessment.

Table 4: Day Ambient Noise levels (dBA) recorded at the various locations.

Location	LA _{EQ}	L ₁₀	L ₅₀	L ₉₀	L _{MAX}
River No. 2 project site	55.0	56.2	53.4	51.8	76.5
Nearest Residence	66.1	67.0	58.2	52.4	95.3
Sierra Leone Standards (SLS 83:2019) Mixed residential (with some commercial and entertainment) 6:00am-10:00pm.	55				

Sierra Leone Standards (SLS 83:2019) Residential + industry or small-scale production + commerce 6:00am-10:00pm.	60	
IFC Noise Level Guidelines for Residential, Institutional, Educational Facilities Day. (07:00-22:00) (Source:www.ifc.org/ehsguidelines)	55	
IFC Noise Level Guidelines for Industrial, Commercial facilities Day (7:00-22:00) (Source:www.ifc.org/ehsguidelines)	70	

3.2.2 Nighttime Ambient Noise Levels

The nighttime ambient noise levels (LA_{EQ}) recorded ranged from 43.3 dB (A) to 41.2 dB(A) at the River No. 2 project site and the nearest residence respectively (see **Table 5**).

The Nighttime ambient noise levels (DdBA) for both sites were below the nighttime Sierra Leone Standards (SLS 83:2019) for mixed residential and IFC LA_{EQ} guideline value for Residential, Institutional, Educational and Industrial commercial facilities.

Table 5: Night Ambient Noise levels (dBA) recorded at the various locations.

Location	LA_{EQ}	L_{10}	L_{50}	L_{90}	L_{MAX}
River No.2 project site	43.3	44.8	43.9	42.9	50.3
Nearest Residence	41.2	43.7	44.7	40.6	49.8
Sierra Leone Standards (SLS 83:2019) Mixed residential (<i>with some commercial and entertainment</i>) 10:00am-6:00am.	45				
Sierra Leone Standards (SLS 83:2019) Residential + industry or small-scale production + commerce 10:00pm-6:00am.	50				
IFC Noise Level Guidelines for Residential, Institutional, Educational Facilities Day. (22:00-7:00) (Source:www.ifc.org/ehsguidelines)	45				
IFC Noise Level Guidelines for Industrial, Commercial facilities Day (22:00-7:00) (Source:www.ifc.org/ehsguidelines)	70				

3.2.3 Surface water Quality

The quality of waterbody against WHO drinking guidelines is provided in **table 6**.

Table 6: Comparison of Stream Quality against WHO drinking water quality guidelines.

Parameter	River No. 2 Stream			WHO drinking water quality guidelines
	Upstream	Weir	Downstream	
pH	6.95	7.31	7.23	6.5-8.5
Conductivity, $\mu\text{S}/\text{cm}$	15.16	16.40	15.77	-
Total Dissolved Solids (TDS)	4.41	8.81	8.45	1000
Temperature	24.3	24.20	26.40	-

4.0 CONCLUSION

Air Quality

The Particulate Matter (PM_{2.5} & PM₁₀) concentrations monitored at River No.2 were found to be within the Sierra Leone Standard (SLS 42:2014) permissible values of 25 and 50 (µg/m³). The monitoring team did not observe much activities in the communities that could have significant influence on the air quality at the time of the assessment.

Noise Monitoring

The ambient noise levels (LEQ values) recorded were compared to their respective Sierra Leone Standards (SLS 83:2019) and IFC guideline values of 55dB for SLS day, 55dB for IFC Day, 45dB for SLS Night and 45 dB for IFC night.

The daytime ambient noise levels (dBA) for River No. 2 site was within the Sierra Leone Standards (SLS 83:2019) However, the daytime ambient noise levels (dBA) for the nearest residence was above the SLS and IFC LA_{EQ} guideline value this was mainly because of sounds from the engines of cars passing, intermittent chatter from pedestrians passing by during the time of assessment.

The nighttime ambient noise level for River No. 2 project site and the nearest residence were within the Noise Level Guidelines for SLS and IFC.

Surface water quality

From the in-situ analysis of the River No. 2 stream, the parameters analysed were below the WHO drinking water guidelines, showing that the quality of the waterbody is generally good.

Annex 2: Sample Grievance Form

GRIEVANCE REGISTRATION FORM (FORM A) – For Complainant

Confidentiality Required: Yes ☐ No: ☐

Name (Complainant) Optional:.....

Contact Information (house number/ mobile phone):.....

Nature of Grievance or Complaint:.....

Details of Grievance:.....

.....

.....

.....

.....

.....

.....

Name (Receiver):..... Signature:..... Date:.....

Name (Filer):..... Signature:..... Date:.....

Relationship of Filer to Complainant (if different from Complainant):

.....

.....



**SIERRA LEONE ECONOMIC DIVERSIFICATION PROJECT
(SLEDP)**

**ENVIRONMENTAL AND SOCIAL
IMPACT ASSESSMENT (ESIA)**

PUBLIC DISCLOSURE REPORT

FOR

**ENHANCING RIVER NO. 2 BEACH
EXPERIENCE PROJECT**

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1.0 INTRODUCTION

1.1 Background

The Government of Sierra Leone (GoSL) with assistance from the World Bank Group (WBG) is implementing the Sierra Leone Economic Diversification Project (SLEDP) to improve the tourism business environment, enhance market access and improve tourism products and services. The project aims to increase investment and entrepreneurship in non-mining productive sectors, including tourism. The proposed “Enhancing River No. 2 Beach experience” project aims at improving and enhancing the experience of River No. 2 Beach by providing improved access and signage, new complementary products (snorkelling and forest nature trails), improved facilities (vendors’ outlets, toilets, showers), water, electricity and waste management. This project, which is one of six similar projects at different locations across Sierra Leone, is being developed as part of the SLEDP.

1.2 Consultation and Disclosure Process Brief

The main objective of the disclosure is to notify interested and \ or affected persons \ parties of the Environmental and Social Impact Assessment (ESIA), to understand the potential implications of the exercise, make inputs to mitigate potential adverse threats and impacts; and raise the necessary awareness before, during, and after construction.

As per the requirements of the EPA-SL for Class A and B, the report or outcome of Environmental and Social Impact Assessment (ESIA) must be discussed with affected communities or parties in a Public Consultation and Disclosure process. SAL Consult Limited held consultative meeting with the River No. 2 Community on February 11, 2022. Details of proceedings and outcomes of the meeting are presented in this report.

1.3 Methodology

With approval from EPA-SL to conduct the disclosure meeting, the following steps were taken to ensure maximum participation by the public, especially members of the River No. 2 Community, who are the immediate project affected persons.

1. Copies of the ESIA Report was submitted for public viewing at:
Freetown:

- The Environment Protection Agency - Sierra Leone (EPA-SL) Office,
92 Dundas Street, Freetown
- SLEDP Project Coordinating Unit Officer,
35 Percival Street, Freetown

River No. 2:

Western Area Rural District Council Office;

2. Advertisements for the Workshop were published on radio and in national newspapers as follows:

Media Type	Media Name	Information format	No. of adverts
Print	Salone Times	Public notice	
Electronic	Sierra Leone Broadcasting Service	Public notice	

3. Letters of invitation were sent to the project stakeholders, government institutions and interested parties prior to the workshop.

2.0 Overview of Meeting

This section presents details of statements and presentations made by the meeting participants. The meeting which was opened with Christian and Muslim prayers, followed by introduction of local authorities and representatives of EPA-SL, MoTCA, NTB, PCU, ICS and SAL (see Meeting Programme in Annex 1).

2.1 Chairman's Opening Remarks – John W. Taylor (Representing Director of Tourism, MoTCA)

Mr. Taylor welcomed participants and indicated that as one of the few beneficiaries of the SLEDP, he hopes that the Bureh community will appreciate the project and ensure its sustainability.

2.2 Keynote Address by Madam Bintu representing EPA-SL

Madam Bintu highlighted the role of the EPA, which is to provide protection, policy and legal framework to ensure Sierra Leonean environment is protected. She further stated that the expectation is for locals to play an active role in environmental protection by desisting from activities such as sand wining, deforestation, game hunting that degrade the environment and deplete natural resources. These activities have the potential of adversely affecting the sustainability of the proposed project and deprive the community of the benefits that would have accrued. The objective of the meeting is therefore to provide the platform for locals to raise concerns and have answers from the appropriate agencies.



Representatives of some key stakeholder agencies (EPA-SL, MoTCA) participating in the meeting

2.3 Presentations

The Project background was presented by Mr. Henson Venn, M&E Specialist of the SLEDPCU and this was followed by:

- Presentation on Project Components and Designs by Mrs. Sabiatu Bakarr, Environmental Safeguards Specialist of the SLEDPCU and Ms. Stella Kanu of ICS, Design Consultants
- Presentation on Socio-Economic Issues by Mr. William Dauda, Social Safeguards Specialist of the SLEDPCU
- Presentation on Potential Environmental and Social Impacts and Proposed Mitigation Measures by Wilson A. Asamoah of SAL Consult Limited, Environmental and Social Safeguards Consultants



Presentation of the Project by Mrs. Bakarr of the SLEDPCU



Presentation

3.0 Interactive Session

Opinions of participants on the presentations, statements and project as a whole were sought in an open forum. Below are pictures and outcomes of the discussions in **Table 3-1**.

Table 3-1: Summary of open discussion of issues, concerns and responses

Issue	Questions/Comments	Responses
Project Implementation	<u>Joseph Jalloh</u> How will the EPA address issues such as blasting of rocks, and dust as part of road upgrade?	<u>EPA</u> The ESIA makes provision for the management of construction related environmental and social issues. However, the community is advised to submit any complaints they may have formally to the EPA.
	When is the project commencing?	<u>SLEDPCU</u> The project commenced about a year ago and implementation will be done in five (5) years.
	Will the project permit the current handicraft market to be moved slightly backwards to create more room for stalls?	<u>SLEDPCU</u> This will be escalated and discussed further with design consultants as designs are yet to be finalized.
	<u>Francis Kappia</u> Will the project be interested in relocating the current car park to the access road junction as the community is considering this to reduce congestion at the beach?	<u>SLEDPCU</u> This will be escalated and discussed with the relevant authorities to see how feasible it is.
Design	<u>Community member</u> How will runoff be managed especially during the rainy season when it is known to damage roads?	<u>SLEDPCU</u> Drains will be constructed as part of the road designs to manage runoff and guarantee the longevity of the road.
Vulnerable Persons	<u>Ali Kamara</u> Will equal opportunities be given to all, especially vulnerable persons like persons with disability, to benefit from the project in terms of employment, business opportunity etc.?	<u>SLEDPCU</u> Yes, all persons will be given equal opportunities with PWDs given some preference.

Issue	Questions/Comments	Responses
Project ownership and management	<u>Tijan Dean</u> Explain the role of the World Bank on the project as well as the private sector led approach proposed.	<u>SLEDPCU</u> The World Bank is providing funding for the project through the MoTCA. At the operation stage, one of the management options will be Public-Private-Partnership (PPP) arrangement. However, management options are still being discussed with MoTCA.
	<u>Suad Cisse, Community member</u> How will the community benefit from the project especially at the operation stage?	<u>SLEDPCU</u> The community will benefit from jobs, growth in SMEs, improved services like water, electricity, and sanitation.
Sanitation	<u>Francis Kappia</u> Can the project help the community acquire a dump site as there is none currently which is causing sanitation problems.	<u>SLEDPCU</u> Project components include a waste management system to manage waste generated from the facility. However, the issue of a communal disposal site will be discussed with the relevant authorities.



Discussions at the open forum with the River No. 2 community

4.0 Conclusion

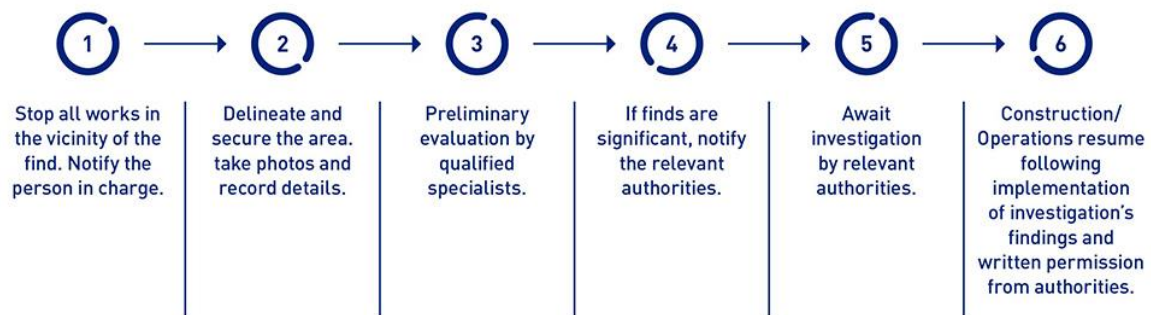
The Public disclosure meeting conducted on February 11, 2022 was successful, drawing representation from project community, River No. 2 and institutional stakeholders in Freetown. The meeting was conducted predominantly in English and translated to Krio to ensure that community stakeholders fully understood the details of the project and to encourage questions/comments.

Presentations were made, describing the technical, environmental and socio-economic aspects of the proposed River No. 2 project and operation of the facility, followed by interactive question and answer sessions.

Generally, participants were most concerned about project design and implementation, project ownership and employment opportunities especially for vulnerable persons and sanitation issues. Questions fielded by participants were responded to by representatives of the PCU, EPA-SL, MoTCA, ICS and SAL

ANNEX 4: SAMPLE CHANCE FIND PROCEDURE

The Chance Find Procedure provides further guidance on the implementation of the Cultural Heritage Plan. It is a site-specific procedure detailing the steps to be followed (Figure below) if a previously unknown heritage resource is discovered.



If a physical cultural resource such as archaeological sites, historical sites, remains and objects, or a cemetery and/or individual graves is discovered during land vegetation clearance, land preparation or excavation, the steps below should be followed:

1. Halt all works or activities in the area of the find, until a solution is found for the preservation of these artefacts, or advice from the relevant authorities e.g. Monuments Board or Archaeological Authority is obtained;
2. Immediately notify a supervisor who will then inform the HSE Supervisors/HSE Manager.
3. Record details in Incident Report and take photos of the find;
4. Secure the site to prevent any damage or loss of removable objects. In cases of removable antiquities or sensitive remains, a night guard shall be arranged until the responsible local authorities takes over;
5. Request the appointed Cultural Heritage Specialist to perform a preliminary evaluation in order to determine whether the Chance Find is cultural heritage and if so, whether it is an isolated find or part of a larger site or feature. In conformance with international standards, the Cultural Heritage Specialist should determine whether the Chance Find is replicable, non-replicable or critical. If the cultural heritage is critical, the Cultural Heritage Specialist should not remove, significantly alter, or damage critical cultural heritage. The following information must be recorded and then the appropriate authority informed:
 - General description of find
 - Location
 - Date of Find
 - Person who identified find

- Description of Initial Find
 - Was work stopped in the immediate vicinity of the find
 - Was an archaeologist contacted
 - Archaeological Detail
 - Date of inspection
 - Reporting Archaeologist
 - GPS coordinates
 - Photo Record
 - Signature
6. The appropriate authority will then conduct investigations and then take decisions on how to handle the finding and communicate the decision to the contractor. This could include changes in the layout (such as when finding an irremovable remain of cultural or archaeological importance) conservation, preservation, restoration and salvage;
 7. Resume construction works after permission is granted by the appropriate authority;
 8. In case no response is received from the appropriate authority, and upon two more follow ups without response, it is considered as authorisation to proceed with suspended construction works;
 9. Register all finds with photolog, correspondence with decision making authorities, conclusions and recommendations/guidance and implementation reports kept.