



# THE GAMBIA ELECTRICITY RESTORATION AND MODERNIZATION PROJECT (GERMP)

# ENVIRONMENTAL AND SOCIAL MANAGEMENT FRAMEWORK (ESMF)

**FEBRUARY 2020** 

# **CONTENTS**

LIST OF TABLES	4
LIST OF FIGURES	4
LIST OF ACRONYMS AND ABBREVIATIONS	5
EXECUTIVE SUMMARY	8
CHAPTER 1: INTRODUCTION	27
1.1 Project Background	27
1.2 Project Objectives	27
1.3 Objectives and Rationale for the ESMF	27
1.4 Method used in Developing this ESMF	28
CHAPTER 2: PROJECT DESCRIPTION	30
CHAPTER 3: DESCRIPTION OF BASELINE CONDITIONS	34
3.1 General Baseline Environmental Conditions Relevant to the Project	34
3.1.1 The Physical Environment	34
3.1.2: The Biological Environment	36
3.1.3 The Socio-economic Environment	38
CHAPTER 4: RELEVANT LEGAL AND INSTITUTIONAL FRAMEWORK	41
4.1 National and International Polices and Legal Framework	41
4.2 Institutional framework	45
4.3 Environmental and Social Safeguards of the WB and EIB	47
4.3.1 World Bank Safeguards	47
4.3.2 European Investment Bank ESS	48
4.3.3 Comparison between The Gambia, WB and EIB Environmental Classifications	49
CHAPTER 5: TYPOLOGY OF GERMP ACTIVITIES, RISKS AND POTENTIAL IMPACTS	51
5.1 Identification of Positive Impacts of the GERMP	51
5.2 Identification of Potential Negative Impacts	51
5.2.1 Description of Potential Impacts and Mitigation Measures for the ESIAs	56
CHAPTER 6: FRAMEWORK ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN	65
6.1 Environmental and Social Impact Assessment and Approval Process	65
6.2 Guidelines for the Preparation of ESMP	69
6.3 Consultations and Public Participation	70
6.3.1 Objectives of Stakeholder Engagement (Consultation and Participation)	70
6.3.2 Consultation and public participation methods that can be applied	71
6.3.3 Consultation during the various phases	71
6.4 FSMF Implementation Arrangements	74

6.4.1 Stakeholder Roles and Responsibilities for the ESMF implementation	74
6.4.2 Specific Roles and Responsibilities	76
6.4.3 Disclosure of Safeguard Documents	79
6.4.4 Institutional Capacity Enhancement	80
CHAPTER 7: GRIEVANCE AND CONFLICT RESOLUTION	80
7.1 Grievance Redress Mechanism for Prevention and Resolution of Complaints and C	
7.2 The GERMP Grievance Resolution Committee (GGRC)	81
7.3 Grievance Redress Process	82
CHAPTER 8: MONITORING AND REPORTING OF THE ESMF IMPLEMENTATION	84
8.1 Monitoring	84
8.2 Reporting	85
8.3 Environmental Audit	85
8.4 Estimated Cost for Implementation of the ESMF	86
CHAPTER 9: CONCLUSIONS	87
11.1 Conclusions	87
BIBLIOGRAPHY	88
ANNEXES ERROR! BOOKMARK NOT DEF	INED.
Annex 1: List of Persons Met	89
Annex 2: ESMF Consultations	92
Summary of Consultations Views and Concerns of Stakeholders	92
Annex 3: EIA Screening Form	97
Annex 4: Flowchart illustrating the EIA Process (Source: EIA Procedures, 1999)	104
Annex 5: Contract clauses that may be included in Contractor agreements	105
Annex 6: Health and Safety Guidelines during Works at Heights (Adopted DHHS/NIOSH, July 2001)	
Annex 7: Chance Find Procedures	109
Annex 8: Comparison of IDA and EIB safeguards standards that apply to the GERMP.	110
Annex 9: Sample Monitoring Programme for consideration during the ESIAs	113
Annex 10: Flowchart Illustrating the Grievance Redress Mechanism	136
	136

List of Tables	
Table 1: Annual mean temperature for coastal and inland sectors (1994-2014)	
Table 2: Relevant National and International Policies and Legal Framework4	
Table 3: Institutional arrangement for GERMP implementation and monitoring4	45
Table 4: World Bank environmental and social safeguards4	17
Table 5: EIB Environmental and Social Standards4	18
Table 6: Comparison of The Gambia, WB and EIB Screening Categorization5	50
Table 7: Typology of GERMP Activities and their Potential Impacts5	52
Table 8: Summary of the ESIA Process6	<u> 5</u> 5
Table 9: Summary of Roles and responsibilities for the implementation of the Framewo	rk
ESMP	78
Table 10: Proposed Course of Action to Address Grievance	32
Table 11: ESMF Monitoring Programme	34
Table 12: Proposed budget for the ESMF implementation	36
List of figures	
Figure 1: Map illustrating a potential T&D route and forest parks along the route	na

#### List of acronyms and abbreviations

DHHS Department of Health and Human Services

DLS Department of Lands and Surveys

DoF Department of Forestry

DPPH Department of Physical Planning and Housing

DWR Department of Water Resources
EHS Environmental, Health and Safety
EIA Environmental Impact Assessment

ESIA Environmental and Social Impact Assessment

EIB European Investment Bank
E&S Environmental & Social

ESMP Environmental and Social Management Plan

ESMF Environmental and Social Management Framework

ESS (EIB) Environmental and Social Standard

ESS-GERMP (GERMP) Environmental Safeguards Specialist

EU European Union

FMS Financial Management Specialist

GBV Gender Based Violence

GEAP Gambia Environment Action Plan

GERMP Gambia Electricity Restoration and Modernization Project

GESP Gambia Electricity Support Project

IDA International Development Association

IFC (WB) International Finance Corporation

IR Involuntary Resettlement
KMC Kanifing Municipal Council

LRR Lower River Region

M&ES Monitoring and Evaluation Specialist

MoA Ministry of Agriculture

MoLRG Ministry of Lands and Regional Governments

MoPE Ministry of Petroleum and Energy

MW Mega Watt

NAWEC National Water and Electricity Company

NBR North Bank Region

NEA National Environment Agency

NEMA National Environment Management Act

NGO Non-Governmental Organization

NIOSH National Institute for Occupational Safety and Health

NRA National Roads Authority
OP [WB] Operational Procedure
PAP Project Affected Person

PPE Personal Protective Equipment

PCU Project Coordination Unit

PIE Project Implementation Entity
POP Persistent Organic Pollutant

PS Procurement Specialist

PURA Public Utility Regulation Authority

RAP Resettlement Action Plan

ROW Right of Way

RPF Resettlement Policy Framework
SHEA Sexual Harassment and Abuse
SSS Social Safeguards Specialist
SPO Senior Programme Officer
STI Sexually Transmitted Infections

TS Technical Specialist

T &D Transmission & Distribution

URR Upper River Region

VAC Violence Against Children

WRD Water Resources Department

WCR West Coast Region

WB World Bank

#### **Executive summary**

This Environmental and Social Management Framework (ESMF) is prepared within the context of The Gambia Electricity Restoration and Modernization Project (GERMP). Funded by the Government of The Gambia, the International Development Association (IDA), the European Investment Bank (EIB) and European Union (EU), the Government intends to improve the power and water generation, transmission and distribution capacity of the National Water and Electricity Company (NAWEC).<sup>1</sup>

# **Project Objectives and Components**

The GERMP's overall objective is to increase the power generation capacity, and to improve the efficiency of NAWEC's transmission and distribution network and ability to absorb variable renewable energy and support the water sector. The project is in early stages of preparation, and is expected to have a total cost of approximately \$156 million, and will consist of activities organized into five components, as follows:

Project Component 1: On-grid solar photo voltaic plants with battery backup

Development of one 20 MW solar photo voltaic (PV) plant within an area of about 23ha at

Jambur in the West Coast Region

Project Component 2: Transmission and distribution (T&D) upgrades

- Installation of approximately 17km High Voltage (HV) 225kV T&D lines between Brikama and Jabang
- ii. Establishment of new substations at Brikama, Jabang, New Wellingara and Kotu
- iii. Construction of a new dispatch center
- iv. Upgrades of some primary and secondary substations
- v. Construction of MV distribution lines on the North Bank Region

Additional financing intends to scale up the Transmission and distribution (T&D) restoration and modernization by addressing the:

- i. Financial gap in transmission and distribution (T&D) investments
- ii. Loss reduction
- iii. Energy efficiency activities

Project Component 3: Urgent institutional strengthening and project implementation support for improved performance of:

- i. Service contractor
- ii. Owners' Engineer
- iii. New IT system for NAWEC
- iv. Studies including feasibility and safeguards instruments (excluding compensation)
- v. Project Management Unit operational costs and relevant training

<sup>&</sup>lt;sup>1</sup> Prepared for Government of The Gambia by Nancy N. Njie, Consultant (Feb. 2020).

- vi. Technical assistance to the Ministry of Petroleum and Energy in various areas
- vii. Scale up support for NAWEC turnaround
- viii. Scale up strategic studies for the energy and water
- ix. Project Management

#### Component 4: Urgent actions to address the water crisis

- (iii) Supporting NAWEC to develop a non-revenue water (NRW) reduction plan: This would entail developing hydraulic zones; installing bulk meters (85 percent of the bulk meters need to be replaced); purchasing and installing retail meters (approximately 20,000 initially) and reducing the backlog of customers awaiting a connection (2,000 customers have paid but not yet received metered connections). NAWEC also needs equipment and spare parts materials for water distribution network maintenance.
- (iv) **New connections (US\$3 million)**: The Additional Financing will finance about 5,000 new household connections to extend NAWEC's customer base. This action would also entail developing the tertiary network.

Besides Component 3, all the other subproject activities will be subjected to environmental and social screening.

# **Potential Risks and Impacts**

The project activities and interventions can have positive impacts on the surrounding environment if they are well designed and implemented. With effective and efficient project implementation, the following benefits are expected:

- Temporary local employment during works and longer-term employment during operation with its associated social benefits such as better living standards
- Economic development and income generation from improved electricity and water supply
- Improved temporary income generating activities for women through petty trading targeting Project workers
- Improved education and health service delivery
- Improvement of other public services such as communications, security
- Technology transfer and capacity building of NAWEC and related staff in managing the solar installations for sustainability, new water equipment's and facilities; involvement of youth in unskilled activities
- Contribution to the reduction of greenhouse gas emissions and other air pollutants through renewable energy
- Installation of the first 225kV transmission lines in The Gambia, except the one being built by OMVG, shall significantly contribute to the reduction of the high losses in power transmission and provide readily available infrastructure for extra supply from future projects
- Contribution to the acceleration of the fight against morbidity and mortality related to diarrhea, cholera, typhoid fever, salmonellosis, malaria, especially in children etc.
- Reduction of health expenditure (medical care of populations)

- Improved access to drinking water services in the program areas;
- Improved security of water supply through increased storage capacity
- Maintenance of drinking water services qualitatively and quantitatively satisfactory in the different human settlements impacted by the program;
- Women's time and energy savings (reduction of water chores)
- Better health of the populations especially the most venerable (women and children)
- School hygiene and increased care activities
- Contribution to the improvement of the living environment
- More sustainable groundwater use

However, project activities could have potential negative environmental and social impacts (as detailed in the matrix below). It will be noted that the list is not exhaustive, and that additional site-specific impacts will be identified during the environmental and social impact assessment or audit studies, and will require consideration of additional, site-specific mitigation measures.

# **Mitigation Matrix**

GERMP Activity /	Potential Impact	Generic Mitigation Measures		
Issue	P			
	ON-GRID SOLAR FIELDS			
Land clearance and preparation	Involuntary resettlement or economic displacement of persons and households	Prepare and implement RAP		
	Loss of cultural heritage from chance finds during construction activities	Apply the procedures for chance finds		
	Felling trees	Tree replantation should be 1:4 in consultation with Dept of Forestry and community where impacted.		
	Impacts on birds	T&D line design must provide insulation and other protection to prevent bird strike kills		
	Accumulation of waste and debris during construction	Use appropriate waste management measures and do not burn		
	Dust and soil erosion	Install erosion control measures; periodic sprinkling of water over ground to control dust		
Occupational health and safety	Effects from inadequately managed health and safety risks such as	Develop and implement ESMPs including the health and safety mitigation measures		
management	accidents relating to worksites, hazardous chemicals, electrocution,	Develop and implement programs to correct deficiencies and substandard conditions		
	manual handling etc.	Identify and empower (or recruit) responsible individuals to manage health, safety and environment at the facility		
		Start awareness or refresher training on health and safety		
		All hazardous material and toxic waste shall be properly contained and stored. For wastes that can't be recycled in the Gambia, the Project must consider including clauses with manufacturers to take back wastes for recycling or proper disposal.		
	Importation of disease from workers	Use local unskilled labour to be stipulated in contracts.		
Quarrying for sand /	Secondary, off-site impacts on	Educate workers and community on STDs  All local sites for extraction of earth materials		
gravel for	geology, landscape, ground water and	shall be approved by the Geology Department or		
construction	agriculture	from approved and certified suppliers		
Waste Management during	Groundwater, soil and air pollution from improper waste management; health hazards and visual Impact	Develop and implement a site waste management plan		
operation/decommi ssioning	Particular pollution from disused batteries, inverters and panels etc.	Equipment/structures will be disposed in an environmentally friendly manner as prescribed in the ESMP		

Social risks associated with imported workers, including disruption of social cohesion, conflict, GBV/SHEA/VAC, poor communication with project, social disruption due to traffic/roads	Social conflict, interruption of services, traffic detour routes and provisional road traffic routes, lack of GRM or functional GRM, lack of information, bad management of unskilled labour, irresponsible behaviour of workers and site workers and/or transactional sex between community members and workers that could have additional social impacts of girls/women, GBV/VAC/SHEA	Establish social communication, install a social animator  Implement GRM  Raise awareness of worker on overall relationship management with local population; establish a code of conduct for all workers in the project in line with international practice and strictly enforce them, including the dismissal of workers and financial penalties to the extent possible; if any, work camps should not be located in close proximity to local communities; sensitize both workers and community on codes of conduct and GRM procedures (including procedures for
		survivor-centered reporting and provision of pyscho-social services); maintain regular communication with communities as per communications plan to update community of project developments
	OFF-GRID FACILITIES (SCHOOLS	/ HEALTH CENTERS)
Land preparation for site of panels (if not installed on existing	Accumulation of waste and debris during construction  Dust	Use appropriate waste management measures; do not burn  Sprinkle water over ground to control dust
roof of buildings)  Quarrying for sand / gravel for construction (rooms for batteries, inverters)	Secondary, off-site impacts on geology, landscape, ground water and agriculture	All local sites for extraction of earth materials shall be approved by the Geology Department
	Groundwater, soil and air pollution from improper waste management; health hazards and visual Impact	
operation/decommi ssioning	Particular pollution from disused batteries, inverters and panels	Equipment/structures will be disposed in an environmentally friendly manner as prescribed in the ESMP
Occupational health and safety management	Public and workplace health and safety risks are not being adequately managed both during construction and future maintenance, amongst others, leading to chemical spills and leaks from batteries contaminating soil, structures, and possibly groundwater	Develop and/or implement ESMPs including the health and safety mitigation measures  Works in schools to be carried out during weekends to avoid public safety risks  Develop and implement programs to correct deficiencies  Identify and empower (or recruit) responsible individuals to manage health, safety and environment at the facility  Awareness / refresher training on health and safety
	225 and 33 kV TRANSMISSION AND	DISTRIBUTION NETWORK

Land preparation and installation of	Involuntary resettlement and economic displacement of persons	Prepare and implement RAP
towers/poles (Excavation for foundation of poles;	and households  Potential loss of cultural heritage from chance find during construction	Apply the procedures for chance finds
erecting new pole / removing /replacing pole	Felling trees	Tree replantation should be 1:4 in consultation with Dept of Forestry and community where impacted.
	Loss of birds	T&D line design must provide insulation and other protection to prevent bird strike kills
	Accumulation of waste and debris during construction	Use appropriate waste management measures and do not burn
	Dust and soil erosion	Install erosion control measures; periodic sprinkling of water over ground to control dust
	Onsite noise and vibration effects on workers and nearby PAPs	Maintain all work equipment at optimal operating condition to control noise and limit working hours between 8am and 6pm.
	Potential contamination (groundwater, air, soil) from accidental fuel/engine oil spill and leaks	train personnel in safe handling of hydrocarbons
	Damage/disruption of roads, existing T&D and other infrastructure during works	Avoid existing public services, carry out routine inspections, report and ensure prompt repair of any damage
		Give adequate notice to the public prior to disruption of services to allow works
Health impacts due to Influx of workers	Importation of disease from workers	Use local unskilled labour to be stipulated in contracts and hiring plans; educate workers on STDs; establish a code of conduct for all workers in the project in line with international practice and strictly enforce them, including the dismissal of workers and financial penalties to the extent possible; if any, work camps should not be located in close proximity to local communities; sensitize both workers and community on codes of conduct and GRM procedures (including procedures for survivor-centered reporting and provision of pyscho-social services); maintain regular health monitoring of workers
Line stringing or restringing	Onsite noise and vibration effects on the workers	Maintain all work equipment at optimal operating condition
	Risk of accidents to life and property	Use warning signs and, where necessary, personnel to direct traffic

		Train and equip workers in safety while working at heights and working with high voltage (apply related guidelines in Annex 6)
, ,		Prevent encroachment and enforce restrictions on activities in line corridor
	Risk of electrocution, injury or property damage	Post warning signs and design poles/towers to prevent access to conductors by unauthorized personnel
T&D line maintenance	Accumulation of bush and debris	Use appropriate disposal techniques; prohibit burning
(mechanical clearing of vegetation, repair and change of T&D infrastructure)	Potential contamination (groundwater, air, soil) from accidental fuel/engine oil spill and leaks	Train personnel in safe handling
	Risk of accidents to life and property	Use warning signs and, where necessary, personnel prohibit or direct traffic
	Worker risks to health and safety	Train and equip workers in safety while working at heights and working with high voltage (apply related guidelines in Annex 6)
	Disruption of road traffic, existing T&D and other infrastructure during maintenance	Give adequate notice to the public prior to disruption of services to allow maintenance works
CONST	RUCTION OF NEW SUBSTATIONS / UPGI	RADING OF EXISTING SUBSTATIONS
Land clearing and preparation:	Felling trees	Replant equivalent area cleared with trees of the same species as prescribed in RAP
bulldozing, excavating and	Accumulation of waste and debris during construction	Use appropriate waste management measures and do not burn
backfilling with earth; transportation	Dust and air pollution	Periodic sprinkling of water over ground
and mixing of materials		Provide protective apparel to workers
	Potential loss of cultural heritage from chance find during construction	Apply the procedures for chance find
	Loss of birds	T&D line design must provide insulation to prevent bird strike kills
Occupational health and safety	Workplace health and safety risks are not being adequately managed both	Develop and/or implement ESMPs including the health and safety mitigation measures
management	during construction and future maintenance, amongst others, leading	Develop and implement programs to correct deficiencies
	to chemical spills and leaks from transformers;	Identify and empower (or recruit) responsible individuals to manage health, safety and
	Workers exposed to risk of electrocution because of old or poorly maintained equipment	environment at the facility  Start awareness or refresher training on health and safety
	' '	Maintain database to judge compliance with mitigation and monitoring plans

	Importation of disease from workers	Use local unskilled labour to be stipulated in
		contracts.
		Educate workers on sexually transmitted infections
Hazardous	Workers and community exposed to	Obtain expert advice in developing a remediation
substance	risks	plan
contamination	Contamination may spread offsite	Contain the contamination and restrict access to
Contamination	through air, surface or	contaminated areas and implement the plan
	groundwater, or improper disposal	Test local water supplies and, if affected, provide
	groundwater, or improper disposar	alternative sources during remediation
Inadequate security	Social conflict between the facility and	Establish effective, ongoing community relations
provisions for the	the surrounding community;	programme;
facility	vandalism or sabotage	Apply Grievance Redress Mechanism
racinty	Risk of electrocution or injury from	Install fences and other security features around
	contact with high voltage equipment,	all dangerous or vulnerable facilities; educate
	especially of vulnerable persons such	community on dangers of sites to assist in
	as children	protecting children and other vulnerable persons
	as crimaren	Employ security personnel, ideally from local area
		Sensitize and post warning signs
RFF	LEVEL PLACEMENT OF BULBS IN GOVERNMENT	
Occupational health	Public and workplace health and safety	Develop and/or implement ESMPs including the
and safety	risks are not being adequately	health and safety mitigation measures
management	managed both during works and	Carry out awareness training on health and safety;
management	maintenance	apply guidelines on working at heights
	mantenance	Provide safety signs and warning sites
		Works in government office to be carried out
		during weekends to avoid public safety risks
		during weekends to avoid public safety risks
	Improper management of replaced	Replaced bulbs must be properly managed and
Waste Management	bulbs, packaging materials etc.	disposed
	RETROFITTING WATER FACILITIES	
Occupational health	Public and workplace health and	Develop and/or implement contractor ESMPs
and safety	safety risks are not being adequately	including the health and safety mitigation
management	managed both during works and	measures
	maintenance	
	REHABILITATION OF STO	PRAGE TANKS
Occupational health	Public and workplace health and	Develop and/or implement contractor ESMPs
and safety	safety risks are not being adequately	including the health and safety mitigation
management	managed both during works and	measures
	maintenance	
		Carry out awareness training on health and
		safety; apply guidelines on working at heights
		Provide safety signs and warning sites
Marka Barrari	Improper management of old storage	Proper management and disposal of all waste and
Waste Management	tanks, and other old infrastructure	construction materials
NEW CONNECTI	ONS, ESTABLISHING DMAs AND DEVELO	PMENT OF THE TERTIARY WATER NETWORK

Excavation of trenches for cables	Involuntary (economic) resettlement of various activities along the route	Prepare and implement RAP
and water pipes	Noise and vibration nuisance to surrounding communities	Maintain all work equipment at optimal operating condition to control noise and limit working hours between 8am and 6pm.
	Disruption of road traffic, existing T&D and other infrastructure during works	Give adequate notice to the public prior to disruption of services to allow works  Liaise with the National Roads Authority prior to works
	Risk of accidents to life and property	Use warning signs and, where necessary, personnel prohibit or direct traffic; safety protocols put in place for workers.
	Potential loss of cultural heritage from chance find during construction activities	Apply the procedures for chance find
Non-existent or non- implementation of ESMPs including	Workplace health and safety risks are not being adequately managed both during construction and future maintenance, amongst others, leading to chemical spills and leaks from the machinery; Workers exposed to risk and accident because of old or poorly maintained equipment	Develop and/or implement ESMPs including the health and safety mitigation measures
health and safety management	Importation of disease from workers  Workers and community exposed to risks	Waste must be properly managed according to the plan
	Public and workplace health and safety risks are not being adequately managed both during works and maintenance	Carry out awareness training on health and safety; apply guidelines on working at heights and implement the World Bank Codes of Conducts
Inadequate security provisions for the facility	Social conflict between the facility and the surrounding community; vandalism or sabotage	Establish effective, ongoing community relations programme; Apply Grievance Redress Mechanism and Stakeholder Engagement Plan
	Risk of accident or injury from contact with equipment and infrastructure being built	Install fences and other security features around all dangerous or vulnerable facilities  Employ security personnel, ideally from local area  Sensitize and post warning signs

# The relevant legal and institutional frameworks

The main national policies applicable to GERMP are:

• Gambia Environment Action Plan, GEAP (2009-2018)

- National Energy Policy (2014 2018)
- Forestry Policy (2010-2019)
- Wildlife Sector Policy (2013 2020)
- National Health Policy (2012-2020)
- National Climate Change Policy (2016 2025)
- Gambia National Gender & Women Empowerment Policy (2010–2020)
- National Youth Policy (2009 2018)
- National Strategic Environmental Assessment Policy (2017- 2021)
- National Policy for the Advancement of Gambian Women and Girls (1999-2009)
- National Development Plan (2018-2021)
- National Water Policy (Policy)

The World Bank Environmental and Social Safeguards Triggered by GERMP are detailed below:

World Bank Safeguards	Triggered	Remarks
Operational Policies (OP)		
OP 4.01 Environmental Assessment, including public participation	Yes	Preliminary evaluation has identified potential negative environmental and social impacts, thus, there is need for environmental assessment to ensure appropriate mitigation measures are put in place during all stages of the Project
OP 4.04 Natural Habitats	Yes	There are native species and natural habitats in the study area
OP 4.12 Involuntary resettlement of populations	Yes	There is a likelihood of resettlement or economic displacement from the Project
OP 4.36 Forests	Yes	Three forests may be affected by the T&D component

In addition, the World Bank's Environmental, Health and Safety (EHS) Guidelines applicable include the EHS General Guidelines, Codes of Conduct and Action Plan for Implementing ESHS and OHS Standard, and Preventing Gender Based Violence and Violence Against Children and more specifically, the EHS Guidelines for Electric Power Transmission and Distribution and the EHS Guidelines for Water and Sanitation<sup>2</sup>.

European Investment Bank Environmental and Social Standards Triggered by GERMP are detailed below:

EIB Environmental and Social Principles and Standards	Applicabili ty to GERMP	Remarks
ESS 1 Assessment and management of	Yes	The need for environmental assessment confirmed due to initial potential negative impacts identified

<sup>&</sup>lt;sup>2</sup>https://www.ifc.org/wps/wcm/connect/0d8cb86a-9120-4e37-98f7-cfb1a941f235/Final%2B-%2BWater%2Band%2BSanitation.pdf?MOD=AJPERES&CVID=jkD216C

environmental and social Impacts and risks		
ESS 2 Pollution Prevention and Abatement	Yes	Potential pollution mainly from waste generation and limited, localized air pollution during works. Mitigation included in overall ESMP to be outlined in ESS1.
ESS 3 Standards on Biodiversity	Yes	Two Forests fall within the study area and
and Ecosystems		shall be considered in the ESIA
ESS 6 Involuntary	Yes	There is likelihood of resettlement or loss of
Resettlement		earnings from the Project
ESS 8 Labour Standards	Yes	Applies to all workers engaged by the Project
		during all stages
ESS 9 Occupational and Public	Yes	There are potential health, safety and security
Health, Safety and Security		issues during all stages

# Relevant institutions to be involved in the implementation and monitoring of this ESMF are:

- Ministry of Environment, Climate Change and Natural Resources (MECCNAR)
- National Environment Agency (NEA)
- Ministry of Petroleum Energy (MoPE)
- National Water and Electricity Company (NAWEC)
- Public Utilities Regulatory Authority (PURA)
- Ministry of Lands and Regional Government (MoLRG)
- Department of Forestry (DoF)
- Department of Water Resources (DWR)
- Ministry of Health and Social Welfare (MoH&SW)
- Ministry of Basic and Secondary Education (MoBSE)

## **Environmental and Social Management Framework (ESMF)**

The GERMP should develop ESMPs and RAPs for subprojects and these should be user friendly. The ESMP/RAP should be a practical, action-oriented plan specifying measures to be taken to address the negative environmental and social impacts. It should also specify the actions, resources and responsibilities needed to implement the agreed actions and details on key social and environmental management and monitoring performance indicators.

Further, the ESMP should ensure that the costs of implementing the ESIA report recommendations are budgeted into the total GERMP costs. The ESMP should cover the following aspects:

<u>i. Summary of Impacts</u>: Anticipated adverse environmental and social impacts should be identified and summarized as well as their relationship to social impacts and the appropriate mitigation measures.

<u>ii. Description of mitigation measures:</u> The mitigation measures proposed for the various impacts should be described in relation to the corresponding impacts while stating the conditions under which they are required.

<u>iii. Consultations:</u> Adequate description of public participation and consultations should be done and justified. Addressing how vulnerable and disadvantaged groups will be consulted, and ensuring consultations are inclusive and accessible. Consultations should include records of attendance appended to the ESIA, photos (pending community consent), concise minutes of the consultation and summarized in the main text. Concerns and risks raised by the community that warrant assessment of impacts should be included in the assessment with relevant mitigation measures included in the ESMP.

<u>iv. Description of monitoring program:</u> A detailed monitoring program should be described in the ESMP, listing environmental and social performance indicators and their link with impacts and mitigation measures. The ESMP should also describe the parameters to be measured, methods to be used, sampling location and frequency of measurements, detection limits and a clear definition of thresholds that indicate the need for corrective measures. Monitoring and supervision schedules should be clearly stated and agreed to ensure timely detection of needs for remedial action and also provide information on the level of compliance with ESMP in accordance with the relevant safeguards. These arrangements must be clearly stated in the project implementation/operations manual to reinforce project supervision.

v. Legal requirements and bidding/contract documents: The ESMP should be incorporated in all legal documents to enforce compliance by all contractors participating in the project. The ESMP should be summarized and incorporated in the bidding and contract documents, including contractor requirements related to implementation and observance of the Gender Based Action Plan, GRM and RAP, and other measures and instruments.

<u>vi. Institutional arrangements:</u> The ESMP should clearly state who is responsible for monitoring, execution of remedial action and the reporting order and format to allow for a defined channel of information flow. It should also recommend institutional strengthening for relevant agencies and the funding authorities for the various activities.

<u>vii. Capacity development and training:</u> To support timely and effective implementation of environmental and social project components and mitigation measures, the ESMP draws on the ESA's assessment of the existence, role, and capability of environmental and social units on site or at the agency and ministry level. If necessary, the ESMP recommends the establishment or expansion of such units, and the training of staff, to allow implementation of ESA recommendations. Specifically, the ESMP provides a specific description of institutional arrangements i.e. who is responsible for carrying out the mitigation and monitoring measures (e.g., for operation, supervision, enforcement, monitoring of implementation, remedial action, financing, reporting, and staff training). To strengthen environmental and social management capability in the agencies responsible for implementation, most ESMPs cover one or more of the following additional topics: (a) technical assistance programs, (b) procurement of equipment and supplies, and (c) organizational changes.

<u>viii. Implementation Schedule:</u> The frequency, timing and duration of mitigation measures and monitoring should be stated in the implementation schedule. Links between mitigation measures and development of relevant institutions and legal requirements of the project should be stated.

<u>ix. Reporting:</u> The order of information flow as it concerns monitoring reports should be clearly defined. The relevant officers to receive these reports should be those who have authorities to facilitate implementation of the results of the monitoring. These reports should also be communicated to the

Bank via media to be agreed and specified in the ESMP. Adequate arrangements should be made by the Bank to facilitate the circulation of the ESMP through the selected means.

Responsibilities of the environmental and social management procedure, from the screening through monitoring and evaluation of the specific ESMP is summarized in Table below.

Activity	Authority / Responsible Person	
Completion of the ESIA Screening Form	NAWEC / GERMP Project Coordinator with assistance from the Project Environmental Officer	
Screening and classification	NEA / Senior Program Officer-ESIA	
Scoping and development of study TOR	Coordinated by NEA / ESIA Working Group	
Recruit ESIA Consultant to carry out study including stakeholder consultation	NAWEC / GERMP	
Recruit GBV consultant to carry out mapping of services and Gender Based Action Plan, as well as training the PIU and delivery of sensitization sessions with workers and communities	NAWEC/GERMP	
Prepare ESIA and ESMP and Gender Based Action Plan and mapping of services	Consultants (ESIA/ESMP and GBV specialist)	
Review of draft ESIA/ESMP report	Coordinated by NEA / ESIA Working Group, TACs, relevant Government institutions, private sector, NGOs and Project affected communities	
Environmental Approval is issued if satisfactory	if NEA / Executive Director	
Share ESMPs with the Lenders	NAWEC/GERMP	
Disclosure of site-specific ESMPs. Coordinate the development of complimentary studies recommended by the ESIA/ESMP, such as Resettlement Action Plans.	NAWEC / GERMP	
Include the relevant ESMP issues into contractor bid documents	NAWEC/GERMP	
Environmental and Social monitoring	Coordinated by NEA / ESIA Officers, Environmental Inspectors, relevant Regional Technical Advisory Committees.	
Reporting of ESMP implementation	NAWEC/GERMP	

# **Consultations and Public Participation**

Public participation in the GERMP will involve a combination of stakeholder consultations and engagement; it will involve local leaders, municipal agencies and authorities, NGOs and community-based organizations. The consultations shall be based on a communication strategy that seeks to increase transparency, public understanding, and citizen involvement in the development and

implementation of the ESMF/ESMPs. The strategy will have clear and consistent messages to be delivered to the public through the following methods:

- a) Public Meetings
- b) Individual (face-to-face) Meetings
- c) Meeting vulnerable groups, including women, separately
- d) Use of media outlets including websites and social media; and communication materials such as flyers and posters
- e) Engagement of local leaders including Alkalo, VDCs and religious leaders to assist in dissemination of information
- f) Traditional drama presentations
- g) Participation in Project Activities

The consultations mentioned shall, in all cases, take due consideration of representativeness and inclusion of women and marginalized or vulnerable groups. The consultations and discussions will be supplemented by the disclosure of key documents (for example, this ESMF and the subsequent ESMPs and RAPs). Disclosure will take place before appraisal of the Project for investment. Accurate record keeping of all consultations (including dates, persons attending, main purpose of consultation, and a summary of the proceedings including key discussion points and questions raised by the community and answers given by the consultant) will be maintained by the PCU/Consultant. These activities will take place through the sub-activity cycle, including post-construction monitoring.

In developing this ESMF, widespread stakeholder consultation and participation had taken place with all affected and interested parties. The dates, venue and persons met are indicated in Annex 2.

## **ESMF Implementation Arrangements**

NAWEC will be the implementing agency of the GERMP and together with other stakeholders will need to identify all institutions and arrangements that will contribute meaningfully to the effective and efficient implementation of the Project. Specifically, the institutional arrangement for the implementation of the ESMF and RAP will consist of the following:

- Project Steering Committee (PSC)
- Project Coordination Unit (PCU)
- Local Authority
- National Environment Agency (NEA)

Implementation of the ESMF is the main responsibility of the PCU. Other parties may have roles to play although these must be initiated by the PCU or NEA as the coordinating and oversight bodies respectively. Certain important entities are crucial at the preparatory stage mainly for technical advice and regulatory information provision; these may include the Department of Forestry and the Department of Water Resources who eventually will be responsible for all forest and water related issues; the Department of Physical Planning and Housing, and the Department of Lands and Surveys for resettlement issues; and the Ministries of Health and Basic Education for coordination of the sector components. The Local Authorities and project affected persons are also relevant in project planning.

#	Steps/Activities	Responsible	Collaboration	Service Provider
1.	Identification and/or siting of	NAWEC	local authorities;	
	the subproject	Management	Department of	
			Lands and Surveys;	
	Screening, categorization and	ESS-GERMP on	NEA; local	Consultant
2.	identification of the required	the PCU	authority; SSS;	
	instrument (use the national EIA			
	procedure)			
3.	Approval of the classification	Project	ESS-GERMP; SSS;	NEA; World Bank;
	and the selected instrument by	Coordinator		EIB
	the NEA			
4.	Preparation of the safeguard doc	ument/instrument	(ESIA, Env. Audit, ESI	MP, GBV Action Plan,
	etc.) in accordance with the natio	nal legislation/pro	cedure (taking into ac	count the Banks
	policies' requirements)		, ,	
	Preparation and approval of the	ESS-GERMP; PC	NEA	The World Bank; EIB
	ToRs	,		,
	Preparation of the report	ESS-GERMP	Procurement	Consultant
	·		specialist; SSS	
			Local authority;	
		ESS-GERMP;	NEA	
	Report validation and issuance		PS; SSS;	Consultant; The
	of the permit (when required)	PC/ESS	TACs/Local	World Bank; EIB
	, , ,		authority; NEA	,
	Disclosure of the document		NEA; NAWEC	Media; World Bank;
			Management	EIB
	(i) Integrating the construction	Technical	ESS-GERMP; PS;	Contractor; NEA
5.	phase mitigation measures and	Specialist on	NAWEC; PSC;	
	E&S clauses in the bidding	the PCU	Engineer;	
	document prior to being		Contractor	
	advertised; (ii) ensuring that the			
	contractor prepares ESMP and			
	gets it approved and integrates			
	the relevant measures in the			
	works breakdown structure or			
	execution plan.			
	Implementation of the other	ESS-GERMP;	SSS; PS; TS; FS;	Consultant;
6.	safeguard's measures, including		M&ES NEA and	National specialized
	environmental and social		EIA Working	laboratories;
	monitoring (when relevant) and		Group; NGO; Local	
	sensitization activities		authority; PSC;	
			General public	
	Oversight of safeguards	ESS-GERMP/PC	M&ES FS; PSC;	NAWEC MD and
	implementation (internal)	-	Local authority;	Management
7.	Reporting on project safeguards	PC	M&ES ESS-	NAWEC MD and
	performance and disclosure		GERMP; SSS; PSC	Management

	External oversight of the project safeguards compliance/performance	NEA	PC; M&ES ESS- GERMP; SSS; PS; PSC	NAWEC MD and Management
8.	Building stakeholders' capacity in safeguards management	ESS-GERMP	PC; SSS; PS; NEA	Consultant Other qualified public institutions
9.	Independent evaluation of the safeguards performance (Audit)	ESS-GERMP	SSS; PS; NEA	Consultant

#### **Disclosure of the Safeguard Documents**

Disclosure of the safeguard documents shall include:

- (i) Distribution of as many copies as possible to different institutions, affected communities, and at strategic locations accessible to all stakeholders for comments and suggestions and referencing.
- (ii) Distribution to individuals and representative persons like Members of the National Assembly (NAMs), Regional Governors, Village Councilors, Village Development Committee members etc.
- (iii) Conducting meetings to discuss the plans at the Project affected sites
- (iv) The final ESMF and subsequent ESIA and RAP reports will be made available in the local communities affected by the Project.
- (v) There is no demand and need for translation of documents into local languages as the target audiences do not have the literacy capacity to read the translated documents. Therefore, meetings and discussions will be held in local languages used by the communities to develop understanding of the Project and resettlement issues where there is demand.
- (vi) The ESMF, RAPs and ESMPs shall also be disseminated through the NAWEC and World Bank websites.

#### **Institutional Capacity Enhancement**

It will be necessary to strengthen the capacity of the staff of NAWEC and other collaborating institutions on the safeguards; on the required management procedures and their roles in implementation and monitoring. A training workshop for NAWEC and its partner agencies may be held before identification of site-specific activities to ensure effective contribution during the process of subproject preparation, ESIA, RAP and ESMP development. The technical advisory committees located within the offices of the Mayors and Regional Governors shall be sensitized to this effect. NAWEC regional officers and safeguards focal points must also be trained on environmental and social safeguards management relevant to the Project.

**Grievance Redress Mechanisms for Complaints and Conflict Prevention and Resolution** 

NAWEC/Government of The Gambia (GoTG) recognizes that where compulsory possession is to be carried out, the process is controlled by law which will be abided by. Any forced evictions that may be required will be undertaken solely for the purpose of promoting the general welfare and that full, fair and timely compensation, rehabilitation and non-regression of rights (including the right to an adequate standard of living) will be fully ensured.

Notwithstanding, grievances shall be referred to a grievance resolution committee to be resolved using traditional and administrative mechanisms, or the law courts at national, regional and community levels. However, this grievance mechanism will be designed to be legitimate and trusted by all relevant partners including the PAPs in particular.

The GERMP Grievance Resolution Committee (GGRC) described below, shall be independent, free and in line with the requirements set out in EIB ESS 10. In particular, where a complaint is not admissible or relevant, the GGRC will refer the aggrieved parties to the relevant authority or other grievance process. The grievance mechanism process will not impede access to independent judicial or administrative remedies outside the specific context of the GERMP; quite the contrary, it should complement and facilitate access to the independent courts.

Grievances and conflicts need to be addressed immediately at the community level. The PCU is to be notified of any disputes in the project zone. Project field staff should work closely with the communities and the community leaders to clarify and resolve any misunderstanding that could give rise to conflicts.

Where the dispute cannot be resolved at the community level, the affected persons or party shall be advised to lodge a complaint to the specified GGRC. The Project field staff shall advise the party on how and where to file the complaint. To ensure reports are user friendly and complete for easy comprehension by the GGRC, a standard grievance report form may be developed by the social safeguards specialist to include name, address and contact details of complainant, date, and nature of complaint etc.

Where the traditional and administrative procedures fail to resolve disputes, the aggrieved party has the right to take the matter to the courts in accordance with the Constitution of The Gambia, other national laws, and the Lenders' policies.

#### The GERMP Grievance Resolution Committee (GGRC)

A GERMP Grievance Resolution Committee (GGRC) is proposed to be set up to inform and coordinate the relevant stakeholders and provide resources for resolution activities. The GGRC, through the Project Coordinator (Chair), shall maintain all records from complaint to final decision for future reference. The GGRC shall also ensure public participation and consultation is a part of the process at all times to promote understanding and prevent unnecessary complaints and disputes.

#### **ESMF Monitoring**

The proposed monitoring program for the ESMF is outlined to check progress and measure success rate of implementation. The Project shall aim to support and facilitate monitoring by the identified stakeholders.

Activity	Coordination / Implementation Responsibility	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
Preparation of subproject ESIA/ESMPs	PCU	- PSC (internally)	Monthly as required	Before any subproject activity	ESIA statements and ESMP for all subprojects
Sensitization workshop for NAWEC and all partners on the GERMP ESMF and other safeguards requirements, including GBV Action Plan	ESS-GERMP	- NEA (externally)			No. of workshops  No. of stakeholders Sensitized
Training of NAWEC regional staff on safeguards management and monitoring	ESS-GERMP				No. of staff trained No. of Regions covered
Public awareness	ESS-GERMP				No. of public sensitization programmes
Environmental auditing	PCU			After year 4	Environmental Audit Report;
					Number of reports on implementation of the audit report

**Estimated budget for Implementation of the ESMF.** The budget for implementation of the ESMF including subproject ESMP development, sensitization and training, and monitoring and auditing is US\$290,000.00 as stated below.

No.	Activity	Cost \$US
1	Preparation of subproject ESIA/ESMPs/RAPs and GBV	150,000.00
	Action Plan	
2	Sensitization workshop for NAWEC and partners	10,000.00
	(including TACs) on the GERMP ESMF	
3	Training of NAWEC regional staff on safeguards	10,000.00
	management	
4	Public awareness	5,000.00
5	ESMF Monitoring	15,000.00
6	Environmental auditing	15,000.00
7	GBV	30,000.00
8	Water related aspects	30,000.00
9	GRM Implementation	25,000.00
	TOTAL	290,000.00

#### Conclusions

As the ESMF has outlined the main potential impacts of the GERMP, preparation of the subprojects will bear in mind such issues to prevent or reduce negative environmental and social impacts. Strategies that will be employed include:

- NAWEC shall develop standards for T&D infrastructural development for safety and consistency. Once additional financing is approved, NAWEC will hire a consultant to develop such standards.
- NAWEC will consider Projects in a coordinated and collaborated manner to reduce staff and other resource expenditure on various similar Project proposals by both NAWEC, Water Resources Department and private investors.
- Alternative sites, designs and technologies shall always be well explored by NAWEC to avoid negative impacts, including resettlement.
- As suggested by the NEA, NAWEC shall aim to start the ESIA process early in project/subproject development to allow enough time for the process to be completed without delay.

#### 1.1 Project Background

With support from the International Development Association (IDA), the European Investment Bank (EIB), and the European Union (EU), (collectively, "the Lenders"), the Gambia Government intends to improve the power and water generation and transmission capacity of the National Water and Electricity Company (NAWEC). In this process, it is preparing an water and energy project called "The Gambia Electricity Restoration and Modernization Project (GERMP)", which will specifically involve electricity generation through renewable sources (on-grid solar energy); reinforcement of the power transmission capacity and water distribution and governance; expanding off-grid electricity access to schools, health facilities, and industrial establishments across the country; project implementation support and some related short-term activities.

#### 1.2 Project Objectives

The overall objective of the GERMP is to improve water and power generation capacity and efficiency of NAWEC's transmission network in order to increase access to electricity for socio-economic development.

With a total cost of approximately \$156 million, the GERMP which is in its preparatory stage consists of four components; with proposed activities that are likely to cause significant negative environmental and social impacts at varying degrees as identified during initial evaluation.

The objective and justification for this project essentially is derived from the national water and energy policies, which among other things, is promoting extension and quality of the Government's energy and water supply nationally, as well as to include diversifying the sources of energy.

This stems from the fact that water and energy are central to the Gambia's many economic, social and environmental concerns; Government has realized that access to sustainable sources has a profound impact on multiple aspects of Gambian society such as poverty, problems of health, gender inequity and environmental degradation.

#### 1.3 Objectives and Rationale for the ESMF

The objectives of this ESMF are to ensure that the Project is implemented in an environmentally and socially sound manner, from conception, to ensure minimal and controlled negative impacts on the population it aims to serve. It essentially evaluates the potential environmental and social impacts of the proposed Project activities; however, since the exact sites are not known at this preparatory stage, an ESMF is necessary to outline potential impacts and requirements that may lead to alternatives being considered. Thereafter, the best options chosen shall eventually be fully addressed in the environmental and social impact assessments (ESIAs) once the sites are known.

Preparation of the ESIAs, to be guided by the ESMF, shall include environmental and social management plans (ESMPs) that specifically identify all potential impacts and mitigation measures, costs, responsibilities for mitigation and monitoring. Based on the assessment, related studies such as Resettlement Action Plans (RAPs) may also be recommended to accomplish the safeguards requirements. The ESIA procedures applicable to eventual sub-projects are described in Chapter 6.

For this Project, rather than waiting for the ESIA to necessitate a RAP, preliminary appraisal had shown that there is high probability of involuntary resettlement, thus the formulation of a Resettlement Policy Framework (RPF) at the design stage to guide future development of RAPs.

This ESMF provides the environmental and social due diligence principles and procedures for subprojects through:

- Description of baseline conditions and linkage to proposed activities that may cause potential impacts
- Description of implementation procedures in relation to screening, scoping, preparation of ESIAs and ESMPs, submission, review and approval of study reports
- Outline subsequent mitigation and monitoring procedures during implementation
- Review of legal and regulatory instruments that the Project would be based on, including the Lenders' environmental and social requirements and safeguards.
- Identification of roles and responsibilities of the various stakeholders, including beneficiaries, in developing implementing the ESMF
- Recommendation of capacity building and training measures to ensure that both the ESMF and subsequent sub-project safeguards procedures can be effectively implemented
- Provision of an estimated budget for implementation of mitigation measures, including preventive, recommended in the ESMF
- Recommendation of any necessary related or further studies and investigations, for full compliance.

The ESMF shall comply with the relevant Gambian laws, World Bank (WB) Safeguards Operational Procedures (OP) and the European Investment Bank (EIB) Environmental and Social Standards (ESS).

#### 1.4 Method used in Developing this ESMF

The approach used in the development of this ESMF is a combination of literature review, consultations and field visits to known, and some identified sample sites.

Literature reviewed includes background study to the GERMP, similar projects such as the Gambia Electricity Support Project in The Gambia and some in other countries; and relevant regulatory instruments of The Gambia, World Bank and the European Investment Bank.

Some of the known potential sites include the 31ha plot of land at Jambur for the on-grid solar field and the route for the 225 kV transmission and distribution lines. As none of the countrywide off-grid solar project sites have been identified, a selection was made from across the country for each of the proposed sectors (a school in Farafenni and health facility in Kuntaur). These case studies are described in Annex 2. All these sites were visited paying particular attention to the socio-economic and bio-physical environmental characteristics of the various areas. The process was participatory, drawing on the local knowledge of interested and affected persons.

Other institutions and stakeholders who are expected to play a major role in the project were also consulted to determine their roles and status of preparedness in implementing the ESMF and subsequent ESMPs.

Institutions consulted include NAWEC, the National Environment Agency (NEA), Ministry of Petroleum and Energy (MoPE), Department of Forestry, Department of Water Resources (DWR), Public Utility Regulation Authority (PURA) amongst many others; the list of persons met is stated in Annex 1 whilst a summary of the consultations with this group of interviewees is in Annex B.

#### Chapter 2: Project Description

With a total cost of approximately \$156 million, GERMP consists of five components:

# Component 1: (IDA/EIB financing) On-grid Solar PV with Storage

Development of a 20 MW solar photo voltaic (PV) plant. This will consist of an on-grid PV plant, which potentially will include battery back up to minimize grid absorption concerns.

Alternatively, 3-4 plants of 3-6MW, (giving a total new capacity in similar range) will be built closer to demand centres. The advantage of this option is that there would be reduced losses, and reduced impact of grid absorption issues. However, it would increase the number of sites required which may be a challenge.

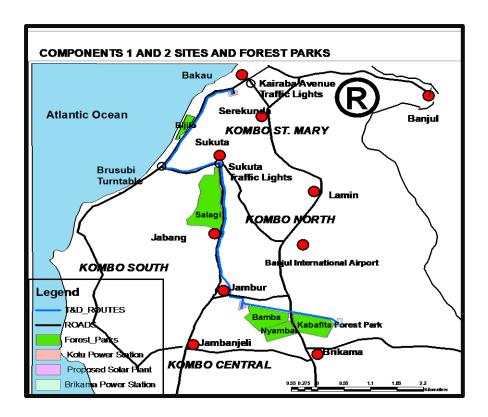
Any proposed site or a number of sites capable of hosting at least 20 MW of solar PV panels for this power generation shall be subject to ESIA.

# **Component 2: T&D Restoration and Modernization**

This component will involve some activities to be financed by IDA and EIB including installation of about 30km of transmission and distribution lines between Brikama, Jabang and Kotu (Figure 1 outlines potential line routing), establishment of a new dispatch center with SCADA, upgrades to existing primary and secondary substations, and prepayment meters. Activities to be financed with blended EIB / EU/WB financing include construction of MV lines in the provinces.

The feasibility study for this component will evaluate different line routing options to minimize social and environmental impacts. Based on the outcome of the feasibility study and current extensive land use within the study area, the chosen options will go through the ESIA process and RAP as outlined in this ESMF and accompanying RPF.

Figure 1: Map illustrating a potential T&D route and forest parks along the route



The additional financing (AF) will support scaling up the restoration and modernization of the transmission and distribution network because of the funding gap discovered by the feasibility study. The AF will also support the loss reduction strategy already put in place through a Service Contractor and scale up the positive effect realized in some activities regarding the Energy efficiency like the LED bulbs for streetlights which reduce the energy consumption by 60 percent. This activity will be coupled with activities to increase the efficiency of energy consumption in the water sector. In addition, the AF will add water activities to the scope of the original project as it has become more and more critical to incorporate NAWEC's water business into the reform process and address some urgent needs in the water sector. While performance of the electricity business has seen some considerable improvements, the water service remains poor. The AF will help address some of the most urgent actions that can quickly help improve NAWEC's operational and technical performance, particularly through new connections; metering; energy efficiency measures; enhancing storage capacity; customer service improvements and various organizational strengthening measures.

#### a) Financial gap in transmission and distribution (T&D) investments

The financial gap is on the T&D restoration and modernization activity in the GBA which includes a new High Voltage Transmission Line, dispatch center and SCADA system, to facilitate the integration of renewables. The AF will allocate additional resources to close this gap and avoid reducing the scope (and subsequently the impact) of the investment.

# b) Loss reduction

Through the support of the NAWEC Service Contractor (SC), NAWEC has developed a loss reduction strategy which targets reductions in technical, commercial and collection losses. With respect to technical losses, the Additional Financing will scale up activities to reduce technical losses including the development of branch level energy accounting capabilities, support to energy audit teams, meter pillar boxes, test equipment for field inspections, upgrade and replacement of dilapidated and overloaded

11/0.4kV distribution transformers. With respect to commercial losses, given the strong impact of installed meters in reducing commercial losses, the AF will scale up this activity to finance additional 30,000 prepaid meters and associated equipment, helping NAWEC to decrease its commercial losses as it expands the customer base, including communication campaigns to effect behavior change on energy efficiency.

# c) Energy efficiency activities

Given the strong impacts of the LED bulbs for street lights financed under the parent project, which have helped to reduce consumption by approximately 60 percent, and positive effect of the energy efficiency communication campaigns, the AF would (i) scale up activities linked to street lighting and achieve universal coverage of LED bulbs in the GBA; (ii) scale up energy efficiency activities into a structured program, starting with public sector customers and potentially also including private customers; (iii) support activities to increase the efficiency of electricity consumption by the water business.

# Component 3: Urgent institutional support for sector turnaround

This component will play a pivotal role in NAWEC future. It will, among others, support the restructuring process, expand the IMS contract to include water and assess the strategic water business. Special attention will be paid on the gender gap and vulnerability/social inclusion assessment in the energy and water sector, including assessment on the institutional dynamics on empowerment and associated action plan on gender equity and enhancing social inclusion.

#### a) Scale up support for NAWEC turnaround

The NAWEC restructuring process is underway but its implementation has revealed the need to reinforce the ongoing support to ensure that the reform process is successful. The performance of the SC has been highly satisfactory to date. The proposed AF would finance a two-years of additional support from the NAWEC Service Contractor (SC) to scale up the existing support to the electricity business such as (i) support the change management process to the reorganization; (ii) building fit-for-purpose financial, commercial and planning departments in NAWEC; (iii) building a regulatory affairs department including support for tariff applications under the new tariff methodology.

The AF scale up existing support to NAWEC's energy business to integrate the water business, which has so far not been included in the scope of activities. This would include expanding the scope of the SC to include water business with activities such as strategic and organization assessments, and an energy audit on the water business.

The AF would also expand the scope of the IMS contract, already signed, to include water modules which were included in the bidding documents but not the negotiated contract. The AF will also also provide technical tools to enhance NAWEC's operations e.g. SCADA system for water network mapping, including training to field technicians on its use.

The scale up of support from the SC and IMS will be complemented by associated activities to support the implementation of NAWEC's strategic development plan to modernize NAWEC, such as (i) new energy efficient office building for the newly formed projects and planning directorate (part of the new NAWEC reorganization), which will also host the PIU; (ii) upgrades to approximately 40 customer service centers, expected to provide one stop shops for water and electricity customers; (iii) support for

modernizing the NAWEC customer call center for water and electricity complaints; and (iv) activities to improve the Occupational Health and Safety practices in NAWEC water and electricity operations.

#### b) Scale up strategic studies for the energy and water

The recently launched energy sector roadmap is the key strategic reference point for the sector. The scale up of activities will include additional strategic studies for NAWEC and the MoPE in areas such as (i) grid code to support dispatch of renewable energy and imports, and set quality standards; (ii) studies required to scale up renewables; (iii) support to crowd-in private sector investment; (iv) an auditor for the monitoring and validation of the NAWEC Performance Contract; (v) gender gap assessment in the energy sector, including assessment on the institutional dynamics on empowerment and associated action plan on gender equity; (vi) energy audit on the water business as well as recommendations and support for implementing some of the measures; (vii) a study on the Kotu wastewater treatment plant, including an assessment of the technical, financial and environmental dimensions and a feasibility study for improving its functionality; (viii) a diagnostic on fecal sludge management (FSM) as well as a feasibility study on a FSM treatment plant; and (vii) support to the MoPE to develop an electrification policy. This component will also finance capacity building to modernize the MoPE, as well as study tours to facilitate south-south learning.

c) Project management: Corresponding to the scale up of activities for water and electricity, the AF will finance associated project implementation costs including support to the PIU and scale up of funding for the preparation and implementation of safeguards instruments for activities under the parent project.

#### Component 4: Urgent actions to address the water crisis

Addressing the urgent need of the water sector will be the main target of this component. It will renovate some water infrastructures to improve the transmission and distribution and also purchasing and installing retail meters to address the crisis of customers waiting for connection. Under this component it also planned to connect 5,000 households which entail development of tertiary network.

One of the first objective of this component is to support NAWEC to develop a non-revenue water (NRW) reduction plan: This would entail developing hydraulic zones; installing bulk meters (85 percent of the bulk meters need to be replaced); purchasing and installing retail meters (approximately 20,000 initially) and reducing the backlog of customers awaiting a connection (2,000 customers have paid but not yet received metered connections). NAWEC also needs equipment and spare parts materials for water distribution network maintenance. The Additional Financing will also rehabilitate some old water infrastructure like water tanks and replace old equipment in some water facilities to improve the water and sanitation sector of NAWEC.

# Chapter 3: Description of Baseline Conditions

## 3.1 General Baseline Environmental Conditions Relevant to the Project

The Gambia has a land area of 11,300 square kilometres and is bounded to the West by the Atlantic Ocean and by Senegal to the other sides. It lies 150 longitude at equal distances from the Equator and the Tropic of Cancer. It is divided into the North and South Banks by the River Gambia which claims at least 20% of the country area, with the latter being more populated and developed.

Activites of the GERMP will be implemented in all seven regional governments of The Gambia listed with the location of their administrative offices:

- Banjul City Council (BCC) Banjul
- Kanifing Municipal Council (KMC) Kanifing
- West Coast Region (WCR) Brikama
- North Bank Region (NBR) Kerewan
- Lower River Region (LRR) Mansakonko
- Central River Region (CRR) Janjangbureh
- Upper River Region (URR) Basse

As the Project sites are yet to be identified, the general environmental conditions in The Gambia are decribed. Where specific conditions relating to the Project study area are known, these will be described as well, particularly the 132kV T&D component.

# 3.1.1 The Physical Environment

# **Climatic Conditions**

The climatic condition of the Gambia is of the Sudano-Sahelian type and is characterized by the occurrence of two distinct seasons: a hot rainy season from June to October, and a dry season from November to May. Monthly mean temperatures in the rainy season vary between 29°C and 32°C and from 15°C to 23°C in the cooler dry season.

During the rainy season, south-westerly monsoon winds combined with heat from the continent, and because of the northward movement of the wind, give rise to the formation of thundery activities. This is usually accompanied by strong winds, heavy downpours and severe lightning flashes. July, August and September are the highest rainfall months.

In the dry season (during the months of December to April) North-easterly winds (the Harmattan) blow from the Sahara towards the western coast of Africa resulting in the presence of dust particles in the air, and general cloudless skies and dry air.

# **Rainfall**

Available long-term data suggests that annual rainfall in the country has been declining over the years, the amount decreasing progressively from the mid-1940s corresponding to approximately 30 per cent in deficit. From a high of about 500mm in the month of August (the month with the highest amount of rain) it decreased to just above 300mm between 1965-2005 as recorded at Yundum; in Janjangbureh it

decreased from a little more than 300mm to about 250mm, and in Basse it decreased from about 350mm to about 250mm.

In more recent years (1994-2015) the annual rainfall experienced in these regions has been variable, ranging between 470mm (recorded in Janjangbureh in 2011 to 1,359mm recorded in Yundum in 2015). The annual average rainfall during this period ranged between 505mm in 2011 to 1,066mm in 2010. With the same data from 1994-2015 (DWR, 2017), total annual rainfall declined by about 4 per cent in Janjangbureh, and by about 2 per cent in Basse. However, for the same period Yundum recorded an increase of 4 per cent;

Overall, the three regions received an annual average of 1.5 per cent increase in rainfall and this trend in rainfall increases the risk of flooding in some areas, which may affect siting and stability of infrastructure, particularly for electricity transmission and distribution.

#### **Temperature**

Table 1 indicates the mean annual temperature for the Country depicted by Yundum in the coastal area (nearest to the proposed solar fields), and Jangjanbureh and Basse in the inland section from 1994-2014. There is a trend in temperature increase which has consequences on the energy sector due to proportional increase in energy needs for cooling. Paradoxically, higher temperatures result to a reduction in absorption of solar radiation by PV panels as the solar cells become less efficient in converting solar energy to electricity.

Table 1: Annual mean temperature for coastal and inland sectors (1994-2014)

YEAR	YUNDUM	AVERAGE	BASSE
1994	33.0	35.4	36.2
1995	33.3	37.0	36.9
1996	33.7	36.2	37.1
1997	33.8	35.6	36.7
1998	33.6	36.4	37.1
1999	32.6	35.5	35.9
2000	32.6	36.1	36.1
2001	33.4	36.7	36.6
2002	33.1	36.9	36.8
2003	32.8	35.8	36.3
2004	33.2	36.5	36.4
2005	32.9	37.0	36.6
2006	32.7	35.9	36.3
2007	33.0	36.1	36.8
2008	32.8	36.2	36.7
2009	32.1	35.8	36.3
2010	33.4	35.7	37.0
2011	33.0	35.8	36.7
2012	32.7	35.3	36.2
2013	32.6	37.8	36.4

2014	32.9	36.0	36.4

Source: Data from the Department of Water Resources, 2017

## **Sunshine**

Much sunshine is received all year round throughout the country. The solar resources in the country have been measured to be as high as 6.5kWh/m2/d especially around May. The national solar energy potential ranges between 5.8k Wh/m2/d to 6.5kWh/m2/d, with an average global horizontal irradiation (GHI) value of 5.97kWh/m2/d. With this average, the entire country is suitable for the proposed solar energy technology although the CRR and some parts of the NBR have the highest resource potential, with about 6kWh/m2/d (Lahmeyer International, 2008).

# **Topography and Land Use**

Gambia's topography is generally flat and low-lying with nearly 50 per cent of its total land area under 20 metres above mean sea level, one-third at or below 10 metres above sea level, and 10 to 20 per cent seasonally or diurnally flooded. Actually, its low elevation puts some areas of the Country such as the capital city of Banjul at risk from sea level rise.

The topography comprises essentially three distinct levels or zones: the river with its associated tributaries and mangrove vegetation, the extensive lowlands forming the river's floodplain and the upland plateau.

As earlier mentioned, high rainwater runoff may increase the risk of flooding in some areas, particularly low and uneven landscape, affecting the Project infrastructure.

With regards to land use, there is currently a high trend of converting agricultural land to residential, industrial, and other purposes. As this Project shall inevitably require large space, mainly for the solar fields, there is a potential of increasing land use competition which shall be addressed in the ESIA and RAP studies.

# 3.1.2: The Biological Environment

#### **Forests and Vegetation**

Forests play multiple functions including the provision of domestic energy for cooking, building materials in the form of poles and timber, medicinal products, wild fruits and nuts, honey and other services. The environmental functions include soil erosion control, carbon sequestration and the enhancement of local climatic conditions.

The Gambia's total forested area is estimated at approximately 505, 300 hectares (about 43 per cent of the total landmass of the country) and includes the mangrove forests. Approximately 32,729 hectares, (7 per cent of the total forest area) constitutes the 66 gazetted forest parks located in different parts of the Country, including those near the potential T&D Project sites. The GERMP T&D route may specifically have negative impacts on four forests parks; Kabafita, Bamba, Salagi and Bijilo Forest Parks which were reserved because of their ecological importance in protecting and preserving the nation's forest

resources. Project impacts on biodiversity will be assessed in line with the Lenders' E&S requirements, notably WB OP 4.36 and EIB ESS 3.

The 225 kV transmission line from Brikama to Kotu would run through the northern edges of both the Kabafita and Bamba Forest Parks, thus, affecting a significant number of timber trees. Depending on which side of the road is eventually chosen for the line, Salagi and Bijilo Forest Parks may also be affected. The vegetation of these Parks includes mainly gmelina, teak, eucalyptus, and other local tree species such as "kaba", "santang", "talo" "ditakh", etc. The forests have thick crown closure and very high tree heights. In addition, the coastal Bijilo Forest Park is extremely rich in palm trees and holds the Monkey Park managed by the Department of Forestry.

### **Fruit Trees and Other Vegetation**

Fruit trees are very common around the villages located along the proposed routing of the transmission lines. They are planted as orchards, fenced and well protected from stray animals, or only planted and left to grow unattended over the years. These types of fruit trees are mainly mango and cashew.

Other fruit trees include the baobab which is planted for its shade as well as for food, its fruits are eaten and have certain uses as medicine; its leaves are used as vegetables, for sauces; its bark can be used as rope for tethering cattle.

The Rhun Palm tree is also found abundantly within the study area of the proposed T&D corridor. It provides food (juice and fruit) and timber.

The *Eucalyptus* is commonly found, used as live fences. Its trunk and branches are useful for timber and as fence posts. This tree can grow up to 14 meters, and the branches can be in the way of the transmission lines and thus create some obstruction to the lines.

Similar trees along existing T&D corridors are usually trimmed by NAWEC (especially before the rains), rather than fell the whole tree. This practice is repeated periodically as trees regenerate new branches that threaten the lines.

# **Mammalian Fauna**

The mammalian fauna within the Brikama study area is influenced heavily by the Kabafita, Bamba and Salagi Forest Parks. These are home to various invertebrates, reptiles and mammalian species which may consequently be threatened by the impact of this Project on the Forest Parks.

#### Avifauna

The Gambia is popular for bird watching and the greatest variation in biodiversity is found within the avifauna, which is composed of both resident and inter-African and Palearctic migratory species. This diversity of birds results from the range of habitat present i.e. marine, estuary, freshwater swamp, and further upland areas such as the Kabafita, Bamba, Salagi and Bijilo Forest Parks.

There are no bird migratory paths across the Project sites and the avifauna along the T&D corridor essentially resides within the identified Forest Parks. Species include various hornbills, pheasants, cuckoos, sunbirds, starlings, weavers, waxbills, eagles and hawks etc. Other recorded species include the black-necked weaver, red-billed hornbill, greater honeyguide, red-necked falcon, and black-billed wood-dove.

#### 3.1.3 The Socio-economic Environment

### Agriculture

Generally Gambian agriculture is characterized by subsistence production of food crops comprising cereals (early millet, late millet, maize, sorghum, rice and findo); semi-intensive cash crop production (groundnuts, cotton, sesame and horticulture). Farmers generally practice mixed farming, although crops account for a greater portion of the production. As earlier mentioned, agricultural land conversion for other uses shall consequently contribute to reduced productivity.

The cultivation of horticultural crops (vegetables and fruits) is also widely practiced where women grow mainly onions, tomatoes, small and large pepper, cabbage, lettuce, garden egg, bitter tomatoes, okra and sorrel, etc.

Livestock production is also practiced, and involves the rearing of cattle, small ruminants (sheep and goats), poultry and draft animals (donkeys, horses and mules). The agricultural fields are usually grazed by these livestock immediately after harvest of the crops.

# **Harvesting of Wood and Non-wood Forest Products**

The communities around the mentioned Forests collect medicinal plants, herbs and the bark of trees, wild fruits and honey for personal consumption or for sale. The most prominent fruits in these forests include the "Kaba" and "Talo" commonly used in juice making.

#### Operation and Sale of Charcoal

Charcoal is widely used by households in all parts of The Gambia as an important source of domestic energy supply and its exploitation is controlled by the Department of Forestry. Although clandestine exploitation and marketing of charcoal occurs in some remote areas of the provincial regions, charcoal production within or around the forest parks relevant to the GERMP is uncommon due to their centralized locations and close proximity to the monitoring institution.

# Firewood Collection

Many of the communities are dependent on the vegetation and forest resources for the provision of firewood. The high prevalence of dry season fires in the woodland areas often results in the death of many trees, which maintains a supply of dead timber. The firewood collected is for both home use and for selling to provide additional income for the family. Figure 2 illustrates people collecting firewood from the forests within the study area.

Figure 2: Firewood collection from Kabafita Forest and Bamboo Plantation next to Medina substation in Brikama



#### **Petty Trading**

Petty trading is tradition in the Gambia where, women in particular, sit along roads to sell food, fruits and other items at small scale. Some temporary shacks are also installed by more organized fruit and vegetable sellers. Vending various other items such as second-hand clothing, cigarettes, fish, telephone credit, amongst others are common in the T&D study area.

# Land use and property rights

The GERMP, with various components across the Country, shall be implemented in areas of mixed land use. There are residences, commercial areas, schools, markets, mosques, car parks, farmland or merely open unused land to be wary of. The Brikama/Kotu corridor within the T&D route is the most densely populated area of the Project with trees and extensive developed properties as residential, commercial and social amenities.

The off-grid schools and health facilities usually have reserve land and will have vulnerable children and patients that may need special attention to protect from health and safety risks associated with construction and operation of the Project.

Any physical and economic displacement as a result of the Project will be assessed and mitigated in line with Gambian laws, WB OP 4.12 and EIB ESS 6.

# Cultural heritage

The GERMP components will be located and designed to avoid sites of cultural heritage, including those having cultural, historical, religious or archaeological significance; none of which have been identified during the initial evaluation of the Project.

Notwithstanding, during site preparation for the on-grid solar fields and 225kV T&D network, there is a possibility of discovering objects, features and immaterial forms of cultural heritage such as hidden cultural practices and knowledge. Therefore, the Chance Finds Procedures described in Annex 7 will be used to guide action for such discoveries.

# Gender, Gender Disparity, Gender Based Violence and Violence Against Children

Gender as a social construct has continued to be considered an important pillar in sustainable development, including the environment sector. Although the approach to issues that concern women is generally conservative in Gambian society, particularly the rural settings, there is gradual advancement with national laws and policies incorporating women issues. However, positive difference can only be meaningful if women and girls are involved and included in project design and benefits.

Although in The Gambia men tend to dominate with assets, including secure land tenure, this Project shall benefit households and enterprises irrespective of ownership. There will be equal opportunities to participate during consultations and eligibility for compensation, if applicable based on resettlement action plans.

Despite the Gambia's Children's Act of 2005, much work required to ensure that all Gambian adolescents benefit from their rights as enshrined in the Act. The challenges that adolescent girls face in the Gambia are as varied as their backgrounds, and their situation is often exacerbated by their economic status, social support systems, socio-cultural practices such as early marriage, teenage pregnancy, domestic workload, and gender violence and discrimination. As such, the ratio of girls' to boys' attendance of secondary school does not yet match that of primary school enrolment. Only 87 girls out of every 100 boys attend secondary school – that indicates a 13% gap in gender parity (UNICEF). The government developed a national plan of action on gender-based violence for 2013-17, with the goal of reducing the proportion of women who experience GBV from 75.5% to 30%. In addition, the Government has budgeted GMD30 million for projects and programs to eliminate harmful traditional practices; attain gender parity and support economic empowerment of women.

The National Assembly passed the Women Amendment Act 2015 banning Female Genital Mutilation/Cutting (FGM/C) but this practice remains widespread in the country and is underreported given social and cultural conventions.

# Chapter 4: Relevant Legal and Institutional Framework

# **4.1** National and International Polices and Legal Framework

Table 2 indicates the relevant national and international polices and legal framework that will guide the development and implementation of the GERMP.

**Table 2: Relevant National and International Policies and Legal Framework** 

	NATIONAL POLICIES				
Policy	Description	Relevance To GERMP	Focal Institution		
Gambia Environment Action Plan, GEAP (2009-2018)	Integrated environment and natural resources management	Provides guidance in general environmental planning and natural resources management	NEA		
National Energy Policy (2014 – 2018)	Policy aims to increase clean and sustainable energy	All electricity projects are implemented within the context of this Policy	MoPE		
Forestry Policy (2010-19)	Promotes state and community forests	Four forest parks within the Project study area	DoF		
The Wildlife Sector Policy (2013 – 2020)	Aims to increase biodiversity and protected areas	Bijilo Forest Park falls within the Project study area and houses the Bijilo Monkey Park	DPWM		
The National Health Policy (2012-2020)	Promotes and protects the health of the population	Addresses health risks and exposures associated with negative environmental consequences of the Project at all stages	DHS		
National Climate Change Policy (2016 – 2025)	Policy provides the framework for managing climate risks, building institutions, capacities, & opportunities for climate-resilient development	Promotes renewable energy and energy efficient options.	DWR		
Gambia National Gender & Women Empowerment Policy (2010 – 2020)	To mainstream gender in national and sectoral planning and programming to ensure equity and equality	Women are encouraged to be well informed and take part in decision making at all levels of the Project development and implementation	Office of the Vice President & Ministry for Women Affairs		

National Youth Policy (2009 – 2018)  National Strategic Environmental Assessment Policy (2017- 2021)	Policy aims to mainstream youth issues into the advancement of all sectors Aims to ensure environmental sustainability	To be inclusive, the Project shall encourage youth participation in decision making and employment  Applies when developing policies, plans or programmes in all sectors, including energy	MoYS NEA
RELEVANT NATIONAL L		Deleveres to CEDMD	Enforcing
Legislation	Interpretation of Legislation	Relevance to GERMP	Enforcing Institution
National Environment Management Act, NEMA, 1994	Principal legislation for environmental management; Part V of provides for projects listed under Schedule A to be considered for ESIA	This Project falls under Schedule A requiring an ESIA	NEA
Environmental Impact Assessment Regulations, 2014	Prescribes the need for ESIA, its processes and procedures including ESMF/ESMP development and implementation	Elaborates on the requirements for environmental and social safeguards of this Project	NEA
The Forest Act, 1998	Provides framework for the reservation and management of forests.  81(1) of the Forest Act highlights the need for EIA of Projects within forest areas.	Four designated forest parks fall within the study area of this Project	DoF
The Anti-littering Regulations, 2007	Addresses waste management and pollution issues in relation to environmental health and hygiene	The Project must abide by ensuring that all waste produced during all phases is well managed	NEA
Waste Management Bill (1997)	Addresses waste management and pollution issues	Waste management and pollution issues should be addressed by this piece of legislation	NEA/MOH

Local Government Act, 2002	_ ' '		MoLRG
State Lands Act, 1990 (Amended 2008)	Regulates land tenure and property rights	Potential involuntary resettlement for some Project activities	DLS
Land Acquisition & Compensation Act, 1990	Provides for consultation, resettlement and compensation of land	Potential involuntary resettlement for some Project activities	MoLRG
Physical Planning and Development Control Act, 1991	Ensure developments in The Gambia are in line with land use planning and construction standards.	The Project construction activities shall be in line with national landuse and planning rules	DPPH
Development Control Regulations, 1995			DPPH
Public Health Act, 1990	Protects public and environmental health including abatement of nuisances and any condition that may be injurious to health	Noise and other risks associated with the Project must be prevented or reduced	Department of Health
The Gambia Roads and Technical Services Authority Act, 2003	Provides for the administration, control and maintenance of all roads in The Gambia.	Relevant to the Project as the road reserve is usually disturbed in installing T&D infrastructure	NRA
The Gambia Public Utilities Regulatory Authority Act, 2001	Act regulates the activities of providers of certain public utilities in the various economic sectors, including electricity, petroleum and gas	NAWEC, the proponent of this Project will be regulated by this Act	PURA
Environmental Discharge (Permitting) Regulations 2001	Regulations require that a permit is obtained for most discharges of potentially polluting liquids in to or onto the ground (i.e. to	Project implementation has potential to discharge potentially polluting liquids into the Sami bolong	NEA

	groundwater) or into surface waters (such as rivers or streams)		
Mines and quarries Act, 2005	Act makes provision for prospecting for minerals, for carrying out mining and quarrying operations including gravel, sand, and for connected matters	Construction during project implementation involves use of sand and gravel aggregates mined along the road corridor	Geology Department
The Children's Act 2005	Act sets out the rights and responsibilities of children and provides for their care, protection and maintenance	Rights of children impacted by the project need to be protected	
Labor Act (2007)	Provides the legal framework for administration of labor, recruitment and hiring of labor, and protection of wages	The project hiring and management of its labor force should adhere to this framework	Ministry of Works
Environmental Quality Standards Regulations 1999	Regulations declare standards set out in Schedule 1 in respect of ambient air, saline waters, surface fresh waters and groundwater	Project implementation has potential to generate dust, and to pollute the Sami bolong	NEA
Electricity Act, 2005	Promotes the development of the electricity sub-sector on the basis of the principles of a competitive and market-oriented economy	Electricity service providers such as NAWEC, are also regulated by this Act	MoPE
Water Act, 1979	Regulate the water sector for the production of water in quantity and quality for the benefit of human being	NAWEC is providing water in the cities and is bound by this regulation	DWR

# **RELEVANT INTERNATIONAL POLICIES AND TREATIES**

International Regulatory Instrument	Focus Area	Relevance To GERMP	Focal Point	
ECOWAS Energy Protocol A/P4/1/03	· .		MoPE	
United Nations Convention on Biological Diversity	Protection of trees and biodiversity	Forests in Project study area	DPWM	
UN Convention to Combat Desertification (UNCCD)	Desertification	Forests in Project study area	DoF	
Stockholm Convention on Persistent Organic Pollutants (POPs)	Forbids the use of POPs including polychlorinated biphyniles (PCBs)	PCBs may be found in electrical transformers and large capacitors although eradicated and prohibited in The Gambia	NEA	
UN Framework Convention on Climate Change	Relates to sustainable sourcing of all energy projects	This Project has renewable energy components	DWR	
United Nations Convention on the Elimination of all Forms of Discrimination Against Women (CEDAW) and the Optional Protocol to the Convention on the Elimination of All Forms of Discrimination against Women (OP- CEDAW)	Protect Women	Probability to see women more negatively impacted by the Project	Women Bureau	
Convention on the rights of persons with disabilities (CRPD) 2006	Protect vulnerable groups	They suffer the negative impacts more than the others.		

# 4.2 Institutional framework

The institutional framework for implementation of this ESMF is outlined in Table 3.

Table 3: Institutional arrangement for GERMP implementation and monitoring

Institution	Responsibilities
Ministry of Environment, Climate	Oversees the NEA and implementation of
Change and Natural Resources	environmental laws and policies of The Gambia
(MECCNAR)	
National Environment Agency	NEA is the technical arm for environmental
(NEA)	management in The Gambia and enforces the NEMA,
	1994; ESIA Regulations 2014 and similar legislation
Ministry of Petroleum Energy	The MoPE is the overseeing institution of NAWEC and
(MOPE)	all energy related projects
National Water and Electricity	As the implementing arm of the MoPE, NAWEC is the
Company (NAWEC)	main operator and manager of electricity production
	in The Gambia. NAWEC is also responsible for the
	provision of water supply and sanitation services for
	the urban centers with more than 10,000 inhabitants;
	it is the executer of this Project.
Public Utilities Regulatory Authority	PURA is a multi-sector regulator of utilities in The
(PURA)	Gambia mandated to regulate electricity amongst
	others.
Ministry of Lands and Regional	Oversees all the local government authorities
Government (MoLRG)	including Regional Technical Advisory Committees;
	enforcement of legal regulations on land use and
	administration. Oversees the Department of Lands
	and Surveys, and the Department of Physical Planning
	and Housing.
Department of Forestry (DoF)	Responsible for the maintenance and development of
	forest resources in The Gambia. It recommends sites
	for forest reserves and parks, community forests and
	private forests, and monitors their management for
	sustainability.
	The DOF is responsible for suggesting to Cabinet the
	need to de-reserve part or whole forested areas.
Department of Water Resources	Responsible for the management, development,
	conservation and protection of the country's water
	resources in order to assure a safe and sustainable
	exploitation of these resources for domestic, trade,
	agriculture and other uses which are responsive to
	current and future quality of life and economic
	development needs of present and future generations
	of citizens of The Gambia and to provide timely and
	accurate weather and climate data and information to
BANKA AND AND AND AND AND AND AND AND AND AN	safeguard population and promote food security.
Ministry of Health and Social	Responsible for overall formulation and direction of
Welfare (MoH&SW)	the national health agenda, planning and health
	infrastructural development. Oversees the potential
	beneficiary health facilities of this Project.

Institution	Responsibilities		
Ministry of Basic and Secondary	Houses the Project Coordination Unit responsible for		
Education (MoBSE)	management of all projects under this Ministry and		
	the Ministry of Higher Education Research Science and		
	Technology (MoHERST).		

# 4.3 Environmental and Social Safeguards of the WB and EIB

In addition to the need to comply with the environmental laws and regulations of the Gambia, this Project will also be carried out in compliance with the World Bank and European Investment Bank environmental and social safeguards policies. These are designed to protect the environment and beneficiary communities from potential adverse effects of projects, programmes, plans and policies. The EIB and WB safeguard policies (OP) that may be triggered by this Project are discussed in the following sections.

Annex 8 provides a comparison of IDA and EIB safeguards standards which apply to the GERMP. The specific standards to be applied to each activity will be detailed in the safeguard's instruments (ESIA, ESMP and RAP) that will be prepared once the technical scope if defined through the feasibility studies underway.

For activities to be jointly co-financed by World Bank and EIB, World Bank Safeguards Policies will apply. Where the requirements of EIB Safeguard Policies are more stringent, these will also be applied in addition to World Bank policies.

For activities financed by blended financing between with EIB and the EU, the EIB safeguards policies will apply.

#### 4.3.1 World Bank Safeguards

Of the ten safeguard Operational Procedures of the WB, three are triggered by the GERMP as outlined in Table 4 and following discussion.

Table 4: World Bank's Environmental and Social Safeguards

World Bank Safeguards	Triggered by	Remarks
Operational Procedure (OP)	this Project	
OP 4.01 Environmental	Yes	Preliminary evaluation has identified
Assessment, including public		potential negative environmental and
participation		social impacts, thus, there is need for
		environmental assessment to ensure
		appropriate mitigation measures are put
		in place during all stages of the Project
OP 4.04 Natural Habitats	al Habitats Yes There exist native plant and animal	
	species in the study area, particu	
		within forests
OP 4.09 Pest Management	No	No relation to pest management

World Bank Safeguards Operational Procedure (OP)	Triggered by this Project	Remarks
OP 4.11 Cultural Heritage	No	No sites of cultural or historical significance will be used for or affected by the Project. Notwithstanding, chance find procedures are described in case of
OP 4.12 Involuntary resettlement of populations	Yes	any discovery.  There is likelihood of resettlement or loss of earnings from the Project
OP 4.10 Indigenous populations	No	Indigenous groups will not be affected
OP 4.36 Forests	Yes	There are four forest parks that may be affected by the T&D component
OP 4.37 Safety of Dams	No	The Project has no relation to dams
OP 7.50 International Waterways related Projects	No	The Project is not related to international waterways
OP 7.60 Projects in disputed areas	No	The Project is restricted to The Gambia and there are no transboundary disputes

# 4.3.2 European Investment Bank ESS

**Table 5: EIB Environmental and Social Standards** 

EIB Environmental and Social Principles and Standards	Applicability to GERMP	Remarks
ESS 1 Assessment and management	Yes	The need for environmental
of environmental and social Impacts		assessment confirmed due to initial
and risks		potential negative impacts identified
ESS 2 Pollution Prevention and	Yes	Potential pollution mainly from waste
Abatement		generation and limited, localized air
		pollution during works. Mitigation
		included in overall ESMP to be
		outlined in ESS1.
ESS 3 Standards on Biodiversity and	Yes	Three Forests fall within the study area
Ecosystems		and shall be considered in the ESIA
ESS 4 Climate-related Standards	No	The GERMP rather has positive
		impacts on climate as promotes
		renewable energy; no mitigation
ESS 5 Cultural Heritage	No	No sites of cultural or historical
		significance will be used for or affected
		the Project. Notwithstanding, chance
		find procedures are described in case
		of any discovery.
ESS 6 Involuntary Resettlement	Yes	There is likelihood of resettlement or
		loss of earnings from the Project
ESS 7 Rights and Interests of	Yes	The GERMP shall not affect specific
Vulnerable Groups		interest and vulnerable groups

ESS 8 Labour Standards	Yes	Applies to all workers engaged by the
		Project during all stages
ESS 9 Occupational and Public	Yes	There are potential health, safety and
Health, Safety and Security		security issues during all stages
ESS 10 Stakeholder Engagement	Yes	Important from design stages to
		promote Project support and
		ownership

# 4.3.3 Comparison between The Gambia, WB and EIB Environmental Classifications

Initial screening of proposed projects set the direction for various levels of safeguards protection and management. The Gambia, WB and EIB have same requirements for full ESIA studies where there are high significant impacts anticipated, as indicated in Table 6, even though the categorization may be different under Class A, Class B and Class C respectively. The GERMP, therefore, shall be classed under Gambian law as category A, WB Category B and EIB category C.

Table 6: Comparison of The Gambia, WB and EIB Screening Categorization

	THE GAMBIA		WORL	WORLD BANK		EUROPEAN INVESTMENT BANK	
Classification	Impact significance	Requirements	Impact significance	Requirements	Impact significance	Requirements	
Class A	Highly significant potential adverse impacts	Full ESIA study	Highly significant potential adverse impacts	Full ESIA study	Minimal or no impact		
Class B	Inadequate screening information	Provide more information before final classificatio n as A or C	Less adverse or reversible impacts; mitigation possible	Manageme nt plans developed for mitigation.	Less adverse or reversible impacts; mitigation possible		
Class C	Minimal or no significant impact	If minimal, a manageme nt plan or other conditions may still be required	Minimal or no impact	No further requiremen t.	Highly significant adverse impacts	Full ESIA study	
Class D	Not applicable*		Not applicable*		Not acceptable in EIB terms	Rejected	
Class FI	Not applicable. Sare screened like		Financial intermedi ary is involved	As for Class A or B based on screening.	Not applicable		

<sup>\*</sup> Projects that are totally not in line with The Gambia laws or World Bank safeguards are rejected with no Class allocation.

# 5.1 Identification of Positive Impacts of the GERMP

Many of the activities and interventions to be funded under GERMP can have positive impacts on the surrounding environment if they are well designed and implemented. With effective and efficient Project implementation, the following benefits are expected:

- Employment during works and operation with its associated social benefits such as better living standards
- Economic development and income generation from improved electricity supply
- Increased access of temporary income generation opportunities for women through petty trading targeting Project workers
- Improved education and health service delivery
- Improvement of other public services such as communications, security
- Increasing supply and promoting access to drinking water for low-income households
- Improvement of the quality of drinking water;
- Improved quality and access to drinking water services in the program areas;
- Maintenance of drinking water services qualitatively and quantitatively satisfactory in the different human settlements concerned by the program;
- Prolonged use of the works
- Women's and youth time and energy savings (reduction of water chores)
- Better health of the populations especially the most venerable (women and children).
   Contribution to the acceleration of the fight against morbidity and mortality related to diarrhea, cholera, typhoid fever, salmonellosis, malaria, especially in children etc.
- Reduction of health expenditure (medical care of populations)
- Technology transfer and capacity building of NAWEC and related staff in managing the solar installations for sustainability; involvement of youth in unskilled activities
- Contribution to the reduction of greenhouse gas emissions and other air pollutants through renewable energy
- Installation of the first 225kV transmission lines in The Gambia shall significantly contribute to the reduction of the high losses in power transmission and provide readily available infrastructure for extra supply from future projects

#### **5.2 Identification of Potential Negative Impacts**

Since the focus of GERMP is to increase power generation capacity and water distribution, the subprojects it will fund will essentially fall under the broad activities and related issues listed in Table 7 where the likely negative E&S impacts of the GERMP are outlined. Associated mitigation measures for consideration during the specific ESIAs/ESMP are also listed and further outlined in the following Section, 5.2.1. It will be noted that the list is not exhaustive, and that additional site-specific impacts will be identified during the studies with accompanying mitigation measures.

The parameters used for the identification of the potential impacts are the:

- Physical Environment (soil, water resources and air quality)
- Biological Environment (fauna and flora)
- Socioeconomic environment (health and safety, land use, tenure/ownership, physical and economic displacement, access to community services, social cohesion/conflict, impacts to vulnerable people and groups such as persons with disabilities, women/girls, youth/children, elders, and others)

**Table 7: Typology of GERMP Activities and their Potential Impacts** 

GERMP Activity / Issue	Potential Impact			
ON-GRID SOLAR FIELDS				
Land clearance and	Economic and/or physical displacement of persons			
preparation	Improper/exclusionary consultation of community members			
	and access to benefits especially women and other vulnerable			
	groups			
	Loss of cultural heritage from chance find during construction			
	activities			
	Felling trees			
	Loss of birds			
	Accumulation of waste and debris during construction			
	Dust and soil erosion			
Non-existent or non-	Effects from inadequately managed health and safety risks			
implementation of ESMPs	such as accidents relating to worksites, hazardous chemicals,			
including health and safety	electrocution, manual handling etc.			
management				
	Importation of disease from workers			
Quarrying for sand/gravel	Secondary, off-site impacts on geology, landscape, ground			
for construction	water and agriculture			
	Groundwater, soil and air pollution from improper waste			
Waste Management during	management; health hazards and visual Impact			
operation/decommissioning	Particular pollution from disused batteries, inverters and			
	panels etc.			
Communication and Social	Social conflict, interruption of services, traffic detour routes			
Risk associated with	and provisional road traffic routes, lack of GRM, lack of			
imported workers	information, bad management of unskilled labor, irresponsible			
	behavior of workers and site workers			
	D FACILITIES (SCHOOLS / HEALTH CENTERS)			
	Accumulation of waste and debris during construction			
panels (if not installed on	Dust			
existing roof of buildings)	Consolution off site imports on souling landscape and			
Quarrying for sand / gravel	Secondary, off-site impacts on geology, landscape, ground			
for construction (rooms for	water and agriculture			
batteries, inverters)				

	Groundwater, soil and air pollution from improper waste		
Waste Management during	management; health hazards and visual Impact		
operation/decommissioning	Particular pollution from disused batteries, inverters and		
	panels		
Non-existent or non-	Public and workplace health and safety risks are not being		
implementation of ESMPs	adequately managed both during construction and future		
including health and safety	maintenance, amongst others, leading to chemical spills and		
management	leaks from batteries contaminating soil, structures, and		
	possibly groundwater		
225kV TR	ANSMISSION AND DISTRIBUTION NETWORK		
Land preparation and	Physical or/and economic displacement		
installation of towers/poles	Improper/exclusionary consultation of community members		
(Excavation for foundation	and access to benefits especially women and other vulnerable		
of poles; erecting new	groups		
pole/removing/replacing	Potential loss of cultural heritage from chance find during		
pole	construction		
•	Felling trees		
	Loss of birds		
	Accumulation of waste and debris during construction		
	Dust and soil erosion		
	Onsite noise and vibration effects on workers and nearby PAPs		
	Potential contamination (groundwater, air, soil) from		
	accidental fuel/engine oil spill and leaks		
	Damage/disruption of roads, existing T&D and other		
	infrastructure during works		
Influence workers	Importation of disease from workers		
Influx of workers			
Line stringing or restringing	Onsite noise and vibration effects on the workers		
	Risk of accidents to life and property		
Operation of Transmission	Exposure to electromagnetic fields		
Line			
	Risk of electrocution, injury or property damage		
T&D line maintenance	Accumulation of bush and debris		
(mechanical clearing of	Potential contamination (groundwater, air, soil) from		
vegetation, repair and	accidental fuel/engine oil spill and leaks		
change of T&D	Risk of accidents to life and property		
infrastructure)	Worker risks to health and safety		
	Disruption of road traffic, existing T&D and other infrastructure		
	during maintenance		
LAYING UNDERGROUND CABLES AND WATER PIPES			
	Physical and/or economic displacement along the route		

Excavation of trenches for cables	Improper/exclusionary consultation of community members and access to benefits especially women and other vulnerable groups			
	Noise and vibration nuisance to surrounding communities			
	Disruption of road traffic, existing T&D and other infrastructure during works			
	Risk of accidents to life and property			
	Potential loss of cultural heritage from chance finds during construction activities			
REHABILITATION OF THE 40-CUSTOMER SERVICE CENTERS				
Non-existent or non- implementation of ESMPs including health and safety management	Workplace health and safety risks are not being adequately managed both during construction and future maintenance, amongst  NAWEC Workers exposed to risk because of old or poorly maintained equipment			
	Importation of disease from workers during construction			
Hazardous substance	Workers and community exposed to risks			
contamination	Contamination may spread offsite through air, surface or groundwater, or improper disposal Risk of soil pollution due to lack of equipment maintenance			
Inadequate security provisions for the facility	Social conflict between the facility and the surrounding community; vandalism or sabotage, or in case of GBV, SEA or VAC			
	Risk of accident for the workers at the site and also the community surrounding the facility			
	W SUBSTATIONS / UPGRADING OF EXISTING SUBSTATIONS			
Land clearing and preparation: bulldozing,	Felling trees			
excavating and backfilling	Accumulation of waste and debris during construction			
with earth; transportation and mixing of materials	Dust and air pollution			
	Potential loss of cultural heritage from chance finds during construction			
	Loss of birds			
Non-existent or non- implementation of ESMPs including health and safety management	Workplace health and safety risks are not being adequately managed both during construction and future maintenance, amongst others, leading to chemical spills and leaks from transformers;  Workers exposed to risk of electrocution because of old or			
	poorly maintained equipment			

	Importation of disease from workers
Hazardous substance	Workers and community exposed to risks
contamination	Contamination may spread offsite through air, surface or
	groundwater, or improper disposal
Inadequate security	Social conflict between the facility and the surrounding
provisions for the facility	community; vandalism or sabotage
	Risk of electrocution or injury from contact with high voltage
	equipment
DEDI A CENTENT OF D	LUDG IN COVERNIAGAIT RUIU DINICC AND CEREFE LICUES
	ULBS IN GOVERNMENT BUILDINGS AND STREET LIGHTS
Non-existent or non-	Public and workplace health and safety risks are not being
implementation of ESMPs including health and safety	adequately managed both during works
management	
management	Improper management of replaced bulbs, packaging materials
	etc.
NEW CONNECTIONS FACILITY	TIES AND EQUIPMENT RENOVATION AND DEVELOPMENT OF
THE WATER TERTIARY NETW	
THE WATER PERTIAM INC.	Workplace health and safety risks are not being adequately
Non-existent or non-	managed both during construction and future maintenance
implementation of ESMPs	leading to chemical spills and leaks from water tanks and other
including health and safety	infrastructures;
management	Workers exposed to risk because of old or poorly maintained
	equipment
	Importation of disease from workers
	·
	Workers and community exposed to risks
	Public and workplace health and safety risks are not being
	adequately managed both during works and maintenance
Inadequate security	Social conflict between the facility and the surrounding
provisions for the facility	community; vandalism or sabotage
	Risk of working on height or injury from the management of
	equipment
Mechanical handling	Soil and water pollution
	NEW ENERGY EFFICIENT OFFICE BUILDING FOR THE NEWLY
FORME	D PROJECTS AND PLANNING DIRECTORATE
Land clearing and	Felling trees
preparation: bulldozing,	Association of color delicities in the
excavating and backfilling	Accumulation of waste and debris during construction
with earth; transportation	Dust and air pollution
and mixing of materials	
	Potential loss of cultural heritage chance finds during
	construction

Non-existent or non- implementation of ESMPs including health and safety management	Workplace health and safety risks are not being adequately managed both during construction and future maintenance, amongst  NAWEC and PIU Workers exposed to risk because of old or poorly maintained equipment
	Importation of disease from workers during construction
Hazardous substance	Workers and community exposed to risks
contamination	Contamination may spread offsite through air, surface or groundwater, or improper disposal Risk of soil pollution due to lack of equipment maintenance
Inadequate security provisions for the facility	Social conflict between the facility and the surrounding community; vandalism or sabotage, or in case of GBV, SEA or VAC
	Risk of accident for the workers at the site and also the community surrounding the facility given its proximity to a busy traffic at Kanifing

#### 5.2.1 Description of Potential Impacts and Mitigation Measures for the ESIAs

#### A: Physical Environment: Potential negative impacts and mitigation measures

# i) <u>Air quality impacts</u>

During land clearing and all construction activities, excavations and handling of earth materials will create dust pollution. Although the likely nuisance will be confined to the site locality and of short-term nature, some stretches along the T & D route are densely populated. The impacts of water civil works on air quality are expected to be negligible given the small scale of the works.

### Mitigation

Access to construction sites must be controlled, particularly in built-up areas, and communities (including schools, health facilities and industrial plants) given long notice before works to ensure sites are cleared. Construction materials must also be dispensed at strategic locations away from community activities. It will also be necessary to:

- Sensitization of local populations
- Monitoring the wearing of protective equipment and awareness campaigns
- Regularly maintain equipment and construction machinery
- Wearing dust masks for site personnel

# ii) Noise and Vibration Nuisance

Movement of heavy vehicles and drilling for excavations may create noise pollution temporarily during construction works.

Under moist weather conditions and where cables are damaged, potential noise nuisance is emitted from high tension line infrastructure.

Heavy duty inverters at the solar fields may produce noise during daytime within the sites, however, this diminishes with limited distance from the source and more importantly no noise is produced at night when inverters do not work due to darkness.

For water works, some noise is expected from drilling but works are expected to be short term (a matter of days and no more than a week per site) and sites are expected to be located in NAWEC facilities far from residential or populated areas.

#### Mitigation

All works must be carried out during daytime to reduce noise nuisance which is more prominent at night when there is less background noise.

Minimum height clearance and right-of-way for the 225 kV lines should be applied to assure public safety and insulated cables used where technically appropriate. For sustainability and common guidance, T&D right of way and clearance standards must be developed by NAWEC. In order to effectively mitigate noise and vibration impacts, the project must:

- Choose equipment that meets the limit of 85 db at 01 meter
- Wear of hearing protection for construction site and operating personnel
- Use generators meeting the standard of 85 db at 01 meter
- Plan the yard refueling hours
- Maintain pneumatic tools, machinery and equipment to maintain the noise level generated at an acceptable value
- Make the neighborhood aware of the noise generated by the works and the measures put in place

### iii) Geology and Soils

Sand and gravel to be used for construction of substations, foundation for poles and rooms for batteries, inverters, office and sanitation) may be mined illegally from unapproved sites causing secondary negative impacts on landscape and vegetation.

# **Mitigation**

Contractors must be cautioned through the clauses in their contracts to use only certified sand and gravel suppliers that have been approved by the NEA and Geology Department.

#### iv) Negative impacts from improper waste management

The possibility of soil disturbance during excavation for the poles may result or contribute to localized soil erosion based on the topography of the area.

During construction in the short-term, solid wastes, unused construction materials, packaging material and hazardous chemicals used in electricity equipment are usually abandoned around sites creating eyesore and health risks.

In the long-term during operation and maintenance, damaged or disused T & D infrastructure, hydrocarbons and hazardous chemicals used in the Project may cause E&S risks if not managed adequately.

The common sludge from heavy fuel oil used in power generators is not expected to be produced under the GERMP as all electricity production by the Project will be from solar energy. In addition, NAWEC water facilities will be retrofitted with solar pumps, including solar panels and converters.

# **Mitigation**

All excess materials and waste produced in the process must be collected and the surrounding land returned to its original state. Some waste materials such as packaging and rubble may have other uses and shall be given to workers or communities for reuse.

When T&D infrastructure is not in use anymore for whatever reason, they must be safely decommissioned and cleared away. The same principle applies for any old tanks or meters to be replaced under the water component. A waste management plan shall be developed to ensure proper waste management of other solid waste such as old solar panels and batteries, used bulbs, damaged cables and hydrocarbon wastes.

All waste produced from the Project activities must be well managed to prevent indiscriminate dumping and cause for scavenging by communities. For the management of used oils, waterproofed areas will have to be set up within the fixed site installations to receive sealed bottoms for the storage of used oils. Quantities of stored oil should be collected at regular intervals and routed to treatment companies licensed by the National Environment Agency.

# v) <u>Landscape and stability of towers and poles</u>

Durability and stability of T & D towers and poles may be affected where the topography is uneven, and the wetland areas.

#### **Mitigation**

Where the topography is uneven or prone to water logging, a proper foundation must be laid, and priority given to relocation of poles to more even areas for sustainability and safety. Design specifications, pole spans and heights will be considered to promote stability of poles. Areas surrounding new poles and routes of potential underground cables must be leveled to prevent erosion.

#### **B: Biological Environment: Potential Negative Impacts and Mitigation Measures**

### i) Negative Impacts on Forests and Wildlife

Kabafita, Bamba, Salagi and Bijilo Forest Parks fall within the Project study area and their boundaries near the T&D ROW may be affected during construction and maintenance of the 132 kV T&D line. Vegetation will also have to be cleared for the solar field(s).

As earlier discussed, the clearance, disturbance or fires on both mature and young forests trees (such as Gmelina, eucalyptus, teak) will affect dependent wildlife species and communities that depend on the forest products. Other benefits that may be secondarily

reduced include ground water conservation that occurs due to increased water carrying capacity of the soil through the roots, and reduced evaporation from the tree canopy protection; nutritive quality of the forest topsoil from organic matter and reduced force of rainwater runoff, soil erosion and desertification.

Forests have a unique potential to contribute to climate change mitigation by reducing carbon emissions and enhancing carbon sinks. Therefore, the modest contribution of the mentioned forests to combating climate change will subsequently be reduced.

Displacement and loss of wildlife such as reptiles and monkeys may occur should their sanctuary and food source, the forest parks, are disturbed or trees cut for T & D route clearance. Furthermore, although the proposed 132kV transmission route from Kotu to Brikama crosses close to Bijilo Forest Park, wildlife, particularly roaming monkeys may encounter workers.

The impact of bird strikes is insignificant as there are no migratory paths that will be affected.

#### **Mitigation**

Avoid forest parks as much as possible and alternative sites/routes must be considered to minimize environmental impacts. If studies prove beyond reasonable doubt that the best sites are within the forests, an application must be submitted to the Department of Forestry (DoF) for de-reservation of the required areas before use. Conditions of approval shall include compensation based on the ESIA/RPF/RAPs, in line with Lenders' requirements. At least equivalent number of trees / surface areas will be planted with same species or species of similar importance as advised by the DoF).

Lines will not run through forests, and where trees along the boundaries are felled, the resident wildlife will naturally move towards the unaffected central parts of the forests. No fires and burning activities will be allowed by the contractors and DoF to prevent forest fires.

Communities shall be allowed to benefit from felled trees and access to the remainder of the forests for collection of fruits and dry wood as usual.

Although limited, bird strikes will be further prevented by design and distance between conductors and earthed material, increased insulation and enhanced visibility. The possible relocation of the 11kV line underground to avoid congestion also prevents contact with birds and the public.

#### ii) Negative Impacts on Agriculture

As explained under the baseline conditions, there is potential encroachment on agricultural lands to give clearance for some Project activities (such as the solar fields and T&D network along or across exiting farmlands in Brikama, Jambur and Kotu) resulting to loss of land, income and livelihood.

## **Mitigation**

Project affected persons must be consulted and informed of the Project prior to commencement. A detailed assessment must be carried out and compensation given based on the Project RPF and subsequent RAPs before Project implementation.

#### C: The Socioeconomic Environment: Potential Negative Impacts and Mitigation Measures

# i) Negative Impacts on Public Health and Safety

During land preparation, construction and installation activities of all components of the GERMP, there is risk to public health and safety. Communities and children in particular, are at risk of accidents from the equipment, traffic and improperly handled, placed or temporarily stored materials. Waste produced during works or maintenance and decommissioning can also be a health and safety hazard to the surrounding communities within the Project sites including identified schools, health facilities, industrial plants and Government buildings.

Studies have shown that impact of electromagnetic fields on people such as effects on neurodevelopment, cancer, depression and other disorders, cannot be solely attributed to field strengths. However, it is a fact that both electrical and magnetic field strengths reduce with increasing distance from the source, thus, the potential impact from electromagnetic fields can be reduced with due consideration of specifications for design, location of poles and height of lines.

With regards risks associated with polychlorinated biphenyls (PCBs) found in industrial transformers, the Stockholm Convention on Persistent Organic Pollutants (POPs), which Gambia signed in 2004, was the basis for the replacement of all PCB containing and contaminated transformers.

There is a potential risk of imported diseases, including sexually transmitted infections from influx of workers to Project sites. Given the technical requirements for these type of civil works under this GERMP, contractors will likely come from overseas. There will be a mixt of workers between foreigners, Gambians and community members.

#### **Mitigation**

As earlier discussed, air emissions shall be controlled to prevent nuisance to populations during works that shall only be carried out during daytime with affected populations informed before commencement.

Access to work sites must be restricted in order to avoid accidents and theft incidents. Activities must be coordinated well to prevent accidental destruction of property through falling poles or invasion by equipment and machinery. Waste and disused infrastructure should be removed from all Project sites whenever produced. Safety signs and symbols shall also be used at strategic locations.

For both operational and safety reasons, tree pruning exercises must be scheduled to ensure transmission corridors are clear for safe operation whilst routine inspection and maintenance of the transmission infrastructure shall repair loose installations and prevent frequent breakage.

Due to uncertainties regarding effects of electromagnetic waves, the Precautionary Principle will be applied to the location and height of poles to reduce electromagnetic fields.

As PCB transformers have been eradicated in The Gambia, the NAWEC will ensure that the GERMP will not use any transformer or equipment containing PCBs.

Workers will be educated on the risks and prevention of sexually transmitted infections and workforce, especially unskilled labor, sourced locally. Implement measures to raise local community awareness about sexually transmitted disease risk associated with the presence of external workforce and include local communities in awareness activities. These sensitizations must include subject like GBV, SEA and VAC in order to avoid social conflicts. Code of conduct must be enforced, and the Project will monitor their implementation.

# ii) Negative Impacts on Health and Safety of Workers

There is high risk of health and safety to workers during implementation of all phases and all components (but Component 4) of the GERMP. Hazards include fumes, working at heights, working with heavy equipment and parts, loud noise, road traffic accidents, chemical handling, attack by wildlife from forests amongst others. Fatal electrocution during maintenance of T & D lines is also a potential impact of high significance.

Although not frequent, reports have indicated that workers on the construction of story buildings have also been electrocuted due to contact with existing high-tension lines.

#### **Mitigation**

Participating NAWEC employees and those to be employed by contractors for the Project must be informed of the associated hazards and risks; training on the job and knowledge on procedures to reduce risks, including coordination and communication to avoid electrocution is also essential. Fire extinguishers, personal protective equipment and first aid kits shall be provided, and training given on how to use them.

Reporting of incidents is also essential for the review and improvement of safety procedures.

The Department of Physical Planning and Housing (responsible for issuing building permits) shall protect construction workers from live cables by ensuring that story buildings do not encroach on T&D route clearances.

# iii) Negative Impacts on Land Use and Land Ownership

There will be potential encroachment on property and activities for the on-grid solar fields and along the 225kV T&D installation, especially where there is evidence of limited public space for the right-of-way. Residences, farmland, businesses, and recreational facilities may be affected negatively.

# **Mitigation**

Alternative sites must be considered to avoid involuntary resettlement (both physical and economic displacement) as much as possible and project affected persons consulted from the design stage. Compensation shall be provided before actual Project implementation on the sites based on RAPs and will include measures to address equitable access to benefits and accessible and inclusive consultation of vulnerable persons and groups such as women.

# iv) Negative Impacts on Public Services

Road traffic may be interrupted temporarily during the works on T & D and water civil works as the route follows existing roads, and more long-term from inappropriate location of poles affecting road safety and traffic.

There is also potential damage or destruction of roads and other facilities due to poor coordination and communication amongst public service authorities. For example, roads may have to be cut or excavated for installation of utility infrastructure.

In addition, during works on the on-grid solar and T&D components, there will be disruption of power services to existing customers (within and outside the Project areas) supplied by lines and substations involved in the works.

#### **Mitigation**

Traffic during works must be controlled and materials safely stored away from traffic. Avoid infrastructure of other services such as telephone lines and road infrastructure by keeping to the plans developed by, and in consultation with NAWEC's Planning Department. The Road Reserve Committee at the Ministry of Transport, Works and Infrastructure shall be consulted via the NRA should there be the need for interference with other services, particularly roads.

# v) <u>Negative Impacts on Affected Communities</u>

Community instability, conflict or grievances may arise where there are landownership/land use issues, and individuals or groups do not have access to electricity, yet they are within the Project area and probably affected.

There will be base camps in the Project affected areas in order to park equipment and host the offices and skilled workers of the contractors. The Project must ensure proper sensitization to avoid competition for food, water, sanitation between the contractor's staff and local communities.

However, while Gambian tradition and custom often extends support visitors even though this hospitality may indirectly lead to the increase in risks of spreading sexually transmitted infections (STIs), Gender-Based Violence (GBV), sexual harassment and Abuse (SHEA), Violence Against Children (VAC).

#### <u>Mitigation</u>

Sensitization must be done to mitigate the risk of GBV, VAC, SEA and to mitigate against social conflicts between the Project and the affected communities prior to the start of civil works. Codes of conduct (see Annex K) must be enforced and monitored, companies, managers and staff must sign the codes of conduct before civil works start and these will be socialized with the workers through awareness raising workshops

Contractors must contact the Department of Forestry for assessment of their base camp site in case there is a need to clear the land.

If the site falls into community land, the landowners must be identified and compensated prior to any activity in that site.

Regarding competition for water, contractor will drill its own borehole after getting approval from Water Resources Department. In case community doesn't have access to tap water, the contractor will allow them to fetch for water at the borehole.

Regarding the food, the source must come from outside of the community to avoid shortage if the contractor realizes that there will not be enough provisions coming from the community. This can also be a potential positive impact if the communities are able to produce and sell to the contractor

NAWEC must seek a project to install low voltage facilities that can distribute electricity to communities surrounding power plants as residents cannot understand why they do not have supply when the source is at their doorstep. Project affected persons and the public in general must also be educated on the impossible distribution of electricity at high transmission voltage.

The subsequent RAPs to be developed, and grievance redress mechanism outlined in Section 8 of this ESMF shall be applied to solve such problems if within the scope of this Project.

To prevent STIs, GBV, SHEA and VAC community sensitization before and during works is essential and contractors, in particular, are required through the contracts to educate their workers on the risks and prevention methods, as well as enforced and awareness raising of the Codes of conduct. Team of workers shall also be required to keep their own drinking water supply (usually in 20litre containers) to avoid individuals seeking from communities one after another. The World Bank Codes of Conduct and GBV Action Plan need to be implemented, as well as a GBV mapping of services must be conducted to ensure proper functioning of the project-level GRM for possible situations involving GBV.

Prior to civil works, workers coming outside the community will be sensitize on norms and expectation of the communities they will meet and work with during the implementation of the Project. This will tentatively avoid social conflict between the Project and the hosting/affected communities.

#### vi) Negative Impacts on Chance Finds Cultural Heritage

As earlier discussed, even though there are no known sites of cultural heritage to be affected by the GERMP, there is always a possibility of finding cultural heritage by chance, particularly during land identification and preparation for works. These may be disturbed or lost due to lack of knowledge in managing cultural heritage discovered by chance, and the OP 4.11 and ESS 5 will be triggered.

#### **Mitigation**

Based on this ESMF, the GERMP shall avoid locating and designing activities that will affect cultural heritage. Site-specific ESMPs will further determine, through public consultations, whether there are likely discoveries of cultural heritage in proposed Project sites. If applicable, the Chance Find Procedures described in Annex 7 will be applied; avoid further disturbance and secure discovery, inform the supervisor for onward conveyance to NAWEC

and subsequently the National Council for Arts and Culture (the legal institution responsible to manage cultural heritages).

vii) Negative Impacts from Hazardous material and toxic waste

These waste include replaced incandescent bulbs and spent LED bulbs which contain toxic heavy metals, PV panels, and old distribution transformers which may contain PCBs. They are source of hazards for the affected communities but also the physical and biological environment.

# Mitigation

All hazardous material and toxic waste shall be properly contained and stored. For wastes that can't be recycled in the Gambia, the Project must consider including clauses with manufacturers to take back wastes for recycling or proper disposal. The Project must closely monitor the implementation of these measures to assure their proper implementation.

# 6.1 Environmental and Social Impact Assessment and Approval Process

This section describes the process of environmental and social screening and approval process of Projects such as the GERMP. It will be noted that the NEA's capacity in the conduct of ESIA was built by the Bank in the 1990s through a Bank funded capacity building project. Consequently, the Bank's procedures and that of the NEA are essentially similar. The ESIA process, as applied in The Gambia (summarized in Table 8) will consist of the following steps as required by the NEMA 1994, EIA Regulations 2014, and NEA's EIA Guidelines and EIA Procedures.

**Table 8: Summary of the ESIA Process** 

Activity	Authority / Responsible Person
Completion of the ESIA Screening Form	NAWEC / GERMP Project Coordinator with assistance from the Project Environmental Officer
Screening and classification	NEA / Senior Program Officer-EIA
Scoping and development of study TOR	Coordinated by NEA / EIA Working Group
Recruit ESIA Consultant to carry out study including stakeholder consultation	NAWEC / GERMP
Prepare ESIA and ESMP	Consultant
Review of draft ESIA/ESMP report	Coordinated by NEA / EIA Working Group, TACs, relevant Government institutions, private sector, NGOs and Project affected communities
Environmental Approval is issued if satisfactory	NEA / Executive Director
Share ESMPs with the Lenders	NAWEC/GERMP
Disclosure of site-specific ESMPs. Coordinate the development of complimentary studies recommended by the ESIA/ESMP, such as Resettlement Action Plans.	NAWEC / GERMP
Include the relevant ESMP issues into contractor bid documents	NAWEC
Environmental and Social monitoring	Coordinated by NEA / EIA Officers, Environmental Inspectors, relevant Regional Technical Advisory Committees.
Reporting of ESMP implementation	NAWEC/GERMP

# **Step 1: Preparation of Environmental and Social Profiles**

As a first step NAWEC, as the host of the GERMP, and thus the proponent will prepare a project profile and concept and complete the ESIA Screening Form (indicated in Annex 3) for submission to NEA for project categorization.

The profile will describe the physical, biological, environmental and socio-economic characteristics, including considerations of gender and vulnerable persons and groups, livelihoods and other relevant social data of the proposed project site or area. Preparation and completing the Screening Form should be as participatory as possible, drawing on the knowledge and involving the people located along the proposed line corridors.

The Screening Form will determine the potential environmental and social impacts and their significance, and to assign the appropriate environmental and social category. The Screening Form enhances determination of appropriate environmental mitigation measures or recommends the execution of an Environmental and Social Impact Assessment (ESIA), if necessary.

### Step 2: Screening / Assigning Category to a Project based on Gambian Laws

The assignment of the appropriate environmental and social category to a Project or particular component will be based on the information provided in the Screening Form. The Senior Programme Officer —Environmental Impact Assessment (SPO-EIA) at the NEA will be responsible for categorizing the project as A, B, or C using E&S guidelines.

Following this, the SPO-EIA informs NEA's Executive Director on the outcome of the screening, with recommendation establishing whether:

- a full blown ESIA should be carried out (Class A)
- more information should be requested from the proponent to make a decision (Class B)
- no environmental studies, and simple mitigation measures will be adequate (Class C)

If the screening outcome indicates that the activities scheduled are more complex and would therefore require conducting an ESIA, a scoping process then takes place.

### Step 3: Scoping

Terms of Reference for the study will be prepared by the SPO-EIA at NEA in consultation with the EIA Working Group and other stakeholders, including project affected persons (PAPs). The scoping process is a consultative process that culminates in the determination of the extent and approach to an environmental and social impact assessment study to be conducted by qualified consultants/persons in accordance with provisions of the NEMA, 1994 and EIA Regulations 2014; in addition to OP 4.01 and ESS1 for the GERMP.

#### Step 4: ESIA Study

The study team addresses the terms of reference following extensive stakeholder consultations, site analyses and literature reviews.

The ESIA reports should be short and clear, so that all relevant Project stakeholders can easily understand it. It should state clearly the main environmental and social issues, both positive and negative, likely impacts, potential project affected persons, mitigating measures, and costs of mitigation. The report should include a section known as the environmental and social management plan (ESMP) where impacts, mitigation, responsibilities, monitoring and costs are stipulated.

#### **Step 5: Public Consultations and Participation**

Public information and participation are not a standalone step, rather it is an activity that must be ensured during all stages of the ESIA process. In the case of GERMP, the consultations will be led by the NEA in collaboration with NAWEC, with participation of relevant government institutions, Regional Governors' offices, concerned Councils, traditional leaders, PAPs, and non-governmental organizations amongst others.

To present the GERMP and seek opinion on its E&S issues, a combination of several formats may be used:

- Meetings and focused group discussions with a gathering of affected and interested stakeholders, with consideration for ensuring vulnerable and disadvantaged persons and groups are included
- Opening of a register, accessible to all the populations, in locations (such as NAWEC, NEA, Governors' Offices, Councils etc. and online) where they can seek information, access drafts and note their concerns and apprehensions, appreciations, remarks and suggestions about the GERMP
- Media outlets including talk shows, radio programs, and social media

In any event, a public information programme is initiated, and public notices are issued during the scoping and ESIA preparation stages. Whenever a public concern over the GERMP is indicated and impacts are extensive and far-reaching, the NEA is required to organize a public hearing. The results of the public hearing should be considered when a decision is taken, whether or not a permit is to be issued. Where views are disregarded as invalid, reasons must be given for that justification.

# Step 6: Review and Approval of Environmental and Social Assessment Report

The study reports are initially reviewed by the NEA for completeness, and on acceptance reproduced for more widespread review by the NEA and the ESIA Working Group, in addition to public consultations undertaken during the review. Subsequently, the revised ESIA report will be sent to the Executive Director of NEA for final decision; the outcome of the review of the ESIA reports / Projects will be declared (accepted or rejected).

The review should also include the determination of whether there is need for specific accompanying, complementary studies and reports that must be done to complete the safeguards process, such as RAPs.

#### **Step 7: Disclosure**

When approval is granted, the final ESIA reports/ESMPs shall be disclosed through distribution of copies to different institutions and communities for reference. In addition, the WB and EIB shall make these publicly available through their websites.

NAWEC eventually implements the subproject and respective ESMPs. Where mitigation measures are to be carried out by the works contractors, the requirements must be prescribed in contractor bid documents including cost considerations.

### Step 8: Environmental and Social Monitoring and Reporting

Monitoring is a key component of the ESMF during project implementation and is to be carried out in sequences and frequencies. It will be undertaken during project implementation to verify the effectiveness of impact management, including the extent to which mitigation measures are successfully implemented.

The aim is to: (i). Improve environmental and social management practices; (ii). Check the efficiency and quality of the EIA processes; (iii). Establish the scientific reliability and credibility of the EIA for the GERMP; (iv). Provide the opportunity to report the results on safeguards and impacts and proposed mitigation measures during implementation. Monitoring of GERMP activities will involve three areas namely:

- Compliance monitoring: to verify that the required mitigation measures are being implemented. This will be carried out by the NEA SPO-EIA, and would include inspections during land preparations at the solar fields, construction of the substations, the stringing and laying of underground cables and water pipes, renovation of water infrastructure, etc. The operational and decommissioning phases will also be monitored. In cases where pits have been excavated during construction must be monitored to ensure they are buried up and the ground is brought back to its original state.
- Impacts monitoring: of the environmental and social safeguards given to the contractor in the contract specifications or to NAWEC, the Project proponent. This is the responsibility of the NAWEC and/or its designated Focal Point for the GERMP and should ensure that the contractor submit report on work progress and any challenges in observing the safeguards. The monitoring results should form a major part of the reports to be submitted to the NEA and the Bank and EIB by the Ministry of Petroleum and Energy.
- **Cumulative impact monitoring:** will determine the impacts of GERMP on the environmental and social resources within the project's area of influence. It should be monitored with consideration to other developments which might be established within the general area of the GERMP.

There should be collaboration between NAWEC and other relevant stakeholders including, national institutions such as National Roads Authority (NRA), GAMTEL, and others working within the GERMP's operational area to compare the environmental and social safeguards guiding the implementation of the those institutions' respective projects to ensure

comprehensive management of cumulative impacts. For example, some project affected persons under the ongoing Sukuta-Jambanjelly Road that have recently gone through a process of involuntary resettlement may again be possibly affected by involuntary resettlement under the GERMP.

#### 6.2 Guidelines for the Preparation of ESMP

The GERMP should develop ESMPs for subprojects and these should be user friendly. The ESMP should be a practical, action-oriented plan specifying measures to be taken to address the negative environmental and social impacts. It should also specify the actions, resources and responsibilities needed to implement the agreed actions and details on key social and environmental management and monitoring performance indicators.

Further, the ESMP should ensure that the costs of implementing the ESIA report recommendations are budgeted into the total GERMP costs. The ESMP should cover the following aspects:

- **i. Summary of Impacts**: Anticipated adverse environmental and social impacts should be identified and summarized as well as their relationship to social impacts and the appropriate mitigation measures.
- **ii. Description of Mitigation measures:** The mitigation measures proposed for the various impacts should be described in relation to the corresponding impacts while stating the conditions under which they are required.
- **iii. Consultations:** Adequate description of the public participation and consultations should be done and justified.
- **iv. Description of monitoring program:** A detailed monitoring program should be described in the ESMP, listing environmental performance indicators and their link with impacts and mitigation measures as outlined in Annex 9. The ESMP should also describe the parameters to be measured, methods to be used, sampling location and frequency of measurements, detection limits and a clear definition of thresholds that indicate the need for corrective measures. Monitoring and supervision schedules should be clearly stated and agreed to ensure timely detection of needs for remedial action and also provide information on the level of compliance with ESMP in accordance with the relevant safeguards. These arrangements must be clearly stated in the project implementation/operations manual to reinforce project supervision.
- v. Legal requirements and bidding/contract documents: The ESMP should be incorporated in all legal documents to enforce compliance by all contractors participating in the project. The ESMP should be summarized and incorporated in the bidding and contract documents.
- vi. Institutional arrangements: The ESMP should clearly state who is responsible for monitoring, execution of remedial action and the reporting order and format to allow for a

defined channel of information flow. It should also recommend institutional strengthening for relevant agencies and the funding authorities for the various activities.

vii. Capacity Development and Training: To support timely and effective implementation of environmental and social project components and mitigation measures, the ESMP draws on the ESIA's assessment of the existence, role, and capability of environmental and social units on site or at the agency and ministry level. If necessary, the ESMP recommends the establishment or expansion of such units, and the training of staff, to allow implementation of EA recommendations. Specifically, the ESMP provides a specific description of institutional arrangements i.e. who is responsible for carrying out the mitigation and monitoring measures (e.g., for operation, supervision, enforcement, monitoring of implementation, remedial action, financing, reporting, and staff training). To strengthen environmental and social management capability in the agencies responsible for implementation, most ESMPs cover one or more of the following additional topics: (a) technical assistance programs, (b) procurement of equipment and supplies, and (c) organizational changes.

**viii. Implementation Schedule**: The frequency, timing and duration of mitigation measures and monitoring should be stated in the implementation schedule. Links between mitigation measures and development of relevant institutions and legal requirements of the project should be stated.

**ix. Reporting**: The order of information flow as it concerns monitoring reports should be clearly defined. The relevant officers to receive these reports should be those who have authorities to facilitate implementation of the results of the monitoring. These reports should also be communicated to the Bank via media to be agreed and specified in the ESMP. Adequate arrangements should be made by the Bank to facilitate the circulation of the ESMP through the selected means.

# **6.3 Consultations and Public Participation**

### 6.3.1 Objectives of Stakeholder Engagement (Consultation and Participation)

The exchange of information during development of the safeguards documents is critical to the completion and satisfactory compliance with best practices and Lenders' requirements. Therefore, a two-way communication will occur throughout the preparation and implementation of the ESMF and ESMP processes.

Extensive, effective, inclusive, accessible and meaningful consultation and participation procedures in this ESMF are a cornerstone of Bank project development. Consultations and public participation have the following overall objectives:

- (i) improving the design of GERMP activities through local inputs to the design process that reduce the negative impacts of the Project;
- (ii) ensuring that project beneficiaries are kept fully informed in, and involved with the ESMF process, including vulnerable and disadvantaged persona and groups;
- (iii) reducing delays in project activity implementation, which can arise if disputes and grievances are not dealt with beforehand.

# 6.3.2 Consultation and public participation methods that can be applied

Public participation in the GERMP will involve a combination of stakeholder consultations; it will involve local leaders, municipal agencies and authorities, NGOs and community-based organizations. The consultations shall be based on a communication strategy that seeks to increase transparency, public understanding, and citizen involvement in the development and implementation of the ESMF/ESMPs. The strategy will have clear and consistent messages to be delivered to the public through the following methods:

- h) Public Meetings
- i) Individual (face-to-face) Meetings
- j) Use of Media Outlets including websites, newspapers, radio, and other communication such as flyers and posters
- k) Engaging local and traditional leaders to assist with information sharing such as the Alkalo, VDC and spiritual leaders
- I) Meeting with vulnerable groups
- m) Traditional drama presentations
- n) Participation in Project Activities

The consultations mentioned shall, in all cases, take due consideration of representativeness and inclusion of women and marginalized or vulnerable groups. However, in view of the potential difficulties these groups sometimes have in making their voices heard in large open meetings, special arrangements shall be made at group and individual levels to reach out to them to create the necessary awareness and collect their views. In addition, all meetings will be in the local languages understood by the communities.

The consultations and discussions will be supplemented by the disclosure of key documents (for example, this ESMF and the subsequent ESMPs).

Logs of all consultations (including dates, persons attending, main purpose of consultation, and a summary of the proceedings) will be maintained by the PCU/Consultant. These activities will take place through the sub-activity cycle, including post-construction monitoring. The most important of these consultations and participatory discussions shall be carried out as outlined below.

# 6.3.3 Consultation during the various phases

#### 6.3.31 Consultation Activities during the Design Phase

NAWEC representatives and consultants (as necessary) will hold formal consultations with stakeholders during the preparation of initial and final GERMP designs for the additional financing. They will seek suggestions and modifications to reduce both involuntary resettlement and other negative environmental impacts without adding disproportionately to the cost of construction. They will also seek to identify potential sites Project activities of

components (for example, sub-stations) can be located along the corridors. At the same time, NAWEC or their contractors will hold informal discussions on the same issues potential project beneficiaries during their field visits to prepare and finalize the routing of the transmission lines. NAWEC and /or consultant will note when certain groups such as women are not available to participate (i.e. during food preparation, attending market, working, etc.) and make necessary adjustments in consultation schedules to enhance the opportunity for their participation.

#### **6.3.32 Consultation Activities during ESMF Preparation**

NAWEC and/or Consultant will make an announcement before the start of the Project and as soon as practicable after this announcement, initial public meetings will be held in specific proposed activity areas (such as the solar fields and along proposed corridors at which activity designs and ESMF policies will be presented; summary information will be will be distributed. Publicity for these meetings will be achieved through the press, radio, and word of mouth. Local officials and leaders will be informed directly, emphasizing the importance of encouraging women and other disadvantaged groups to participate and attend. NAWEC and /or consultant will note when certain groups such as women are not available to participate (i.e. during food preparation, attending market, working, etc.) and make necessary adjustments in consultation schedules to enhance the opportunity for their participation. Where the specific project area is extensive (e.g. locations of towers/poles which will be spread along the corridors, multiple public meetings will need to be held.

#### <u>6.3.33 Consultation Activities during ESMP Preparation</u>

During the process of developing the ESIA report and ESMP the consultant will visit and hold meetings and consultations with potential project beneficiaries. Potential activity sites for the GERMP should be visited, paying particular attention to the socio-economic, physical and environmental characteristics of the various sites, including their respective development-environment situation and relationships. The process should be as participatory as possible, involving the local people, and drawing on the local knowledge and recognizing the relationship among resources, resource users, institutions, socio-economic, cultural setting and gender-based differences and considerations as it relates to these.

# **6.3.34 Consultation Activities during ESMP Implementation**

Once finalized, the ESMP will be disclosed in the Project areas, including offices of Mayor and Governor. As project proposals are finalized, the complete proposal shall include the environmental category of the subproject. For category B subprojects, the proposal shall include the EIA report and proof of its approval by NEA. For category C subprojects, the ESIA Screening Form shall be included, together with a list of mitigating measures. The Screening Form will include an enumeration of possible environmental impact and planned mitigating measures.

# <u>6.3.35 Consultation Activities during Post-construction Monitoring</u>

Consultation will constitute a major part of the post-construction monitoring and evaluation system. These activities will include follow-up surveys (quantitative and qualitative) to

monitor project implementation, as well as a final workshop to discuss the ESMP process as a whole to which project beneficiaries and those affected by the project will be invited, and provide opportunities for women and vulnerable groups to participate..

### **6.4 ESMF Implementation Arrangements**

### 6.4.1 Stakeholder Roles and Responsibilities for the ESMF implementation

Implementation of the ESMF is the main responsibility of the Project PCU. Other parties may have roles to play although these have to be initiated by the PCU or NEA as the coordinating and oversight bodies respectively.

As the purpose of the ESMF is mainly to set the pace for future environmental and social management of subprojects, more specific roles and responsibilities shall be identified in the ESMPs. Notwithstanding, those important at the preparatory stage mainly for technical advice and regulatory information provision may include the Department of Forestry who eventually will be responsible for all forest related issues; the Department of Physical Planning and Housing, and the department of Lands and Surveys for resettlement issues; and the Ministries of Health and Basic Education for coordination of the sector component. The Local Authorities and project affected persons are also relevant in project planning.

### 6.4.11 NAWEC: GERMP Project Steering Committee and Project Coordination Unit

NAWEC will be the implementing agency of the GERMP and together with other stakeholders will need to identify all institutions and arrangements that will contribute meaningfully to the effective and efficient implementation of the Project. At this project preparatory stage for the additional financing, no institutional structures have been established yet, notwithstanding, to coordinate the preparation of the Project and its preliminary safeguards studies, the Project Coordination Unit of the existing Gambia Electricity Support Project (GESP) under NAWEC was appointed.

Specifically, the institutional arrangement for the implementation of the Framework ESMP will consist of the following:

- Project Steering Committee (PSC)
- Project Coordination Unit (PCU)
- Local Authority
- National Environment Agency (NEA)

### **GERMP Project Steering Committee (PSC)**

A GERMP Project Steering Committee (PSC), chaired by the Permanent Secretary, Ministry of Petroleum and Energy should be created to oversee the activities of the GERMP. Given the similarities in functions, the membership of the GESP PSC could well be the PSC for the GERMP to oversee implementation of the ESMF, RPF and subsequent ESMPs and RAPs. The Permanent Secretary, Ministry of Lands and Regional Administrations shall be on the GERMP PSC due to the importance of the potential land ownership / compensation issues that this Project may face.

The PSC's roles and responsibilities shall include:

- Oversee and check the implementation of the GERMP safeguard documents including the ESMF, ESMPs, RPF and RAPs
- Review and address all issues relating to compensations, disputes
- Closely monitor the progress reports
- Visit the Project sites to ensure progress of work and other activities

### **GERMP Project Coordination Unit (PCU)**

Currently, the GESP Project Coordination Unit is overseeing the preparation of the Project and it is assumed that at the end of the preparatory phase a more permanent GERMP PCU structure will be in place to oversee the implementation of the project. Such a body shall be responsible for the whole resettlement planning and implementation process. It will be responsible for the oversight of implementation of the RPF and provide an enabling environment for the same.

The GERMP PCU will consist of the following:

- Project Coordinator
- Environmental Safeguards Specialist (ESS-GERMP)
- Social Safeguards Specialist (SSS)
- Procurement Specialist (PS)
- Technical Specialist (TS)
- Financial Management Specialist (FMS)
- Monitoring and Evaluation Specialist (M&ES)
- A Water Engineer

The Management of NAWEC shall have overall oversight role and responsibility and tasks and responsibilities of the GERMP PCU shall include:

- Recruit an environmental safeguards specialist and a social safeguards specialist for the GERMP to be responsible for all the environmental and social aspects of the Project including coordination and monitoring of the implementation of the RPF and the Project's grievance redress mechanisms amongst others.
- The social safeguards specialist shall identify safeguards focal points at the NAWEC Regional offices that will be trained to support and report during the Project.
- Completion of EIA Screening Forms and liaison with the NEA in ensuring subproject environmental assessment and plans are developed and implemented.
- Work with the technical and procurement teams to ensure that contract documents contain environmental and social clauses that contractors must fully implement.
- Coordinate internal monitoring and evaluation based on monitoring plans.
- Coordinate Project related grievance redress activities.

Where applicable, facilitate Project related activities of partner stakeholders.

### **6.4.12 Local Authorities**

Local Government Authorities play a major role in land administration as they maintain registers of properties in their jurisdiction for rating purposes and in this way, they have records of ownership of land albeit not always very accurate. Thus, their role in the implementation of safeguard policies, including ESMPs and RAPs, is important.

Similarly, the Offices of the Governors process and prepare all applications for leases within their jurisdiction. The Governors are the Chairpersons of their respective Regional Physical Planning Authorities. Like the Local Government Authorities, the offices of the Governors play an important role in both social and environmental assessment. Furthermore, Governors, as Chairpersons of Technical Advisory Committees (TACs), have the responsibility of monitoring the implementation of ESMPs and resettlement plans at regional levels.

### **6.4.13 National Environment Agency**

The NEA has a monitoring and supervisory role and shall be responsible for confirming the results of the screening process, reviewing and clearing subproject-specific safeguard instruments and conducting compliance monitoring, with national laws and regulations, as well as the lenders' policies and procedures. In addition, the NEA shall provide technical support and participate in training and sensitization of stakeholders to enhance understanding of the national, WB and EIB environmental and social safeguard instruments.

### 6.4.14 Department of Water Resources

The DWR has the responsibility to manage, develop, conserve and protect the country's fisheries and water resources in order to assure a safe and sustainable exploitation of these resources for domestic, trade, agriculture and other uses which are responsive to current and future quality of life and economic development needs of present and future generations of citizens of The Gambia and to provide timely and accurate weather and climate data and information to safeguard population and promote food security.

### 6.4.2 Specific Roles and Responsibilities

Implementation of the ESMF is the main responsibility of the PCU. Other parties may have roles to play although these have to be initiated by the PCU or NEA as the coordinating and oversight bodies respectively (Table 9).

As the purpose of the ESMF is mainly to guide future environmental and social management of subprojects, more specific roles and responsibilities shall be identified in the ESMPs. Notwithstanding, certain important entities are crucial at the preparatory stage mainly for technical advice and regulatory information provision; these may include the Department of Forestry who eventually will be responsible for all forest related issues; the Department of Physical Planning and Housing, and the Department of Lands and Surveys for resettlement issues; and the Ministries of Health and Basic Education for coordination of the sector

components. The Local Authorities and project affected persons are also relevant in project planning.

### **Project Coordinator**

A Project Coordinator will be in place to oversee the implementation of the Project. He will have the responsibility for initial screening and ensuring subproject safeguard required studies and documents are developed and implemented.

### **Environmental Safeguards Specialist (ESS-GERMP)**

An environmental safeguards specialist will provide management for all environmental issues and activities including implementation of the ESMF and ESMPs. Progress reports will be submitted to the PCU for transmission to the Project Steering Committee (PSC) and NAWEC.

### Social Safeguards Specialist (SSS)

The social safeguards specialist will be required to provide periodic reports on progress on social issues in respect of the identification and acquisition of land as they relate to implementation of RAPs etc., progress in the compensation of PAPs and the level of their participation in project activities. These reports will be submitted to the PCU for transmission to the Project Steering Committee (PSC) and NAWEC.

### Procurement Specialist (PS)

The PS is responsible for purchasing and making project equipment and material available for timely completion of subprojects and ensuring that environmental assessments and plans are developed and implemented.

### <u>Technical Specialist (TS) and Water Engineer</u>

The Technical Specialist and Water Engineer will integrate the construction phase mitigation measures and environmental and social clauses in the bidding documents; ensure that the contactor prepares his ESMP, gets it approved and integrates the relevant measures in the works breakdown structure or execution plan. In collaboration with ESS-GERMP, SSS, FS and PS the Technical Specialist and Water Engineer will ensure that contract documents contain environmental and social safeguard clauses that contractors must fully implement.

### Financial Management Specialist (FMS)

The Financial management specialist is responsible for the day-to-day management of financial resources of the Project.

### Monitoring and Evaluation Specialist (M&ES)

The Monitoring and Evaluation Specialist coordinates internal monitoring and evaluation of subprojects based on monitoring plans.

Monitoring and evaluation are fundamental components of the ESMF, and they will be carried out on a continuous basis. Monitoring of the ESMF implementation process is normally the responsibility of the PCU whereas evaluation is undertaken by an external agency.

### Summary of the roles and responsibilities

The following matrix (Table 9) along with its above write-up on the roles and responsibilities for the implementation of the Framework ESMP, shall be incorporated in the E&S safeguards management section of the project implementation manual.

Table 9: Summary of Roles and responsibilities for the implementation of the Framework ESMP

N o	Steps/Activities	Responsible	Collaboration	Service Provider
1.	Identification and/or siting of the subproject	NAWEC Management	local authorities; Department of Lands and Surveys;	
2.	Screening, categorization and identification of the required instrument (use the national EIA procedure)	ESS-GERMP on the PCU	NEA; local authority; SSS;	Consultant
3.	Approval of the classification and the selected instrument by the NEA	Project Coordinator	ESS-GERMP; SSS;	NEA; World Bank; EIB
4.	Preparation of the safeguard accordance with the nation policies' requirements)	•	• •	
	Preparation and approval of the ToRs	ESS-GERMP; PC	NEA	The World Bank; EIB
	Preparation of the report	ESS-GERMP ESS-GERMP;	Procurement specialist; SSS Local authority; NEA	Consultant
	Report validation and issuance of the permit (when required)	PC/ESS	PS; SSS; TACs/Local authority; NEA	Consultant; The World Bank; EIB
	Disclosure of the document		NEA; NAWEC Management	Media; World Bank; EIB
5.	(i) Integrating the construction phase mitigation measures and E&S clauses in the bidding document prior to being advertised; (ii) ensuring that the contractor prepares ESMP and gets it approved and integrates the relevant measures in the works	Technical Specialist on the PCU	ESS-GERMP; PS; NAWEC; PSC; Engineer; Contractor	Contractor; NEA

	breakdown structure or execution plan.			
6.	Implementation of the other safeguard's	ESS-GERMP;	SSS; PS; TS; FS; M&ES NEA and	National
	measures, including environmental monitoring (when relevant) and sensitization activities		EIA Working Group; NGO; Local authority; PSC; General public	·
	Oversight of safeguards implementation (internal)	ESS-GERMP/PC	M&ES FS; PSC;	NAWEC MD and Management
7.	Reporting on project safeguards performance and disclosure	PC	•	NAWEC MD and Management
	External oversight of the project safeguards compliance/performance	NEA	PC; M&ES ESS- GERMP; SSS; PS; PSC	NAWEC MD and Management
8.	Building stakeholders' capacity in safeguards management	ESS-GERMP	PC; SSS; PS; NEA	Consultant Other qualified public institutions
9.	Independent evaluation of the safeguards performance (Audit)	ESS-GERMP	SSS; PS; NEA	Consultant

### **6.4.3 Disclosure of Safeguard Documents**

Disclosure of the documents shall include:

- (vii) Distribution of as many copies as possible to different institutions, affected communities, and at strategic locations accessible to all stakeholders for comments and suggestions and referencing.
- (viii) Distribution to individuals and representative persons like Members of the National Assembly (NAMs), Regional Governors, Village Councilors, Village Development Committee members etc.
- (ix) Conducting meetings to discuss the plans at the Project affected sites
- (x) The final ESMF and ESIA reports will be made available in the local communities affected by the Project.
- (xi) There is no demand and need for translation of documents into local languages as the target audiences do not have the literacy capacity to read the translated documents. Therefore, meetings and discussions will be held in local languages used by the communities to develop understanding of the Project and resettlement issues where there is demand.
- (xii) The ESMF and ESMPs shall also be disseminated through the NAWEC and World Bank websites.

### 6.4.4 Institutional Capacity Enhancement

In the course of the consultations, it was apparent that most of the potential partners in ESMF implementation do not have good background knowledge and information on the environmental issues most especially in impact assessments.

Specifically, it will be necessary to strengthen the capacity of the staff of NAWEC and other collaborating institutions on the safeguards; on the required management procedures and their roles in implementation and monitoring. A training workshop for NAWEC and its partner agencies is proposed to cover Project introduction, potential impacts, specific law, roles and capacity in ensuring sustainability of the Project. This may be held before identification of site-specific activities to ensure effective contribution during the process of subproject preparation, ESIA and ESMP development. The technical advisory committees located within the offices of the Mayors and Regional Governors shall be sensitized to this effect. NAWEC regional officers and safeguards focal points must also be trained on environmental and social safeguards management relevant to the Project.

The training program should aim to provide attendees with general understanding of environmental and social management issues, safeguard processes, relevant environmental policies and legislation, and the basic approach to implementing the guidelines provided in ESMF/ESMP and the RPF/RAPs. Others include the use of appropriate tools such as the screening forms, health and safety, and internal monitoring and evaluation procedures.

In addition to the above, and in order to comply with best practices and international standards, contractors and laborers should be provided with information, knowledge and skills. These should focus not only on the construction phase but also operational phase of the Project.

### CHAPTER 7: GRIEVANCE AND CONFLICT RESOLUTION

### 7.1 Grievance Redress Mechanism for Prevention and Resolution of Complaints and Conflict

During GERMP preparation and implementation, complaints may arise from partner institutions with respect to breach of laws, project affected persons on landownership and land use issues, pollution nuisance and choice of beneficiaries amongst others. Therefore, to maintain community stability and credibility of NAWEC and GERMP lenders, mechanisms are proposed to redress any grievance and conflict that may arise from the Project. NAWEC will strengthen its team by a Social Specialist and an Environmental Specialist.

The above-mentioned grievances, when they occur, shall be referred to a grievance resolution committee to be resolved using traditional and administrative mechanisms, or the law courts at national, regional and community levels.

NAWEC/Government of The Gambia (GoTG) recognizes that where compulsory possession is to be carried out, the process is controlled by law which will be abided by. Therefore, any forced evictions that may be required will be undertaken solely for the purpose of promoting the general welfare and that full, fair and timely compensation, rehabilitation and non-regression of rights (including the right to an adequate standard of living) will be fully ensured.

Notwithstanding, grievances shall be referred to a grievance resolution committee to be resolved using traditional and administrative mechanisms, or the law courts at national, regional and community levels. However, this grievance mechanism will be designed to be legitimate and trusted by all relevant partners including the PAPs in particular.

The GERMP Grievance Resolution Committee (GGRC) described below, shall be independent, free and in line with the requirements set out in EIB ESS 10. In particular, where a complaint is not admissible or relevant, the GGRC will refer the aggrieved parties to the relevant authority or other grievance process. The grievance mechanism process will not impede access to independent judicial or administrative remedies outside the specific context of the GERMP; quite the contrary, it should complement and facilitate access to the independent courts.

Grievances and conflicts need to be addressed immediately at the community level. The PCU is to be notified of any disputes in the project zone. Project field staff should work closely with the communities and the community leaders to clarify and resolve any misunderstanding that could give rise to conflicts.

Where the dispute cannot be resolved at the community level, the affected persons or party shall be advised to lodge a complaint to the specified GGRC. The Project field staff shall advise the party on how and where to file the complaint. To ensure reports are user friendly and complete for easy comprehension by the GGRC, a standard grievance report form may be developed by the social safeguards specialist to include name, address and contact details of complainant, date, and nature of complaint etc.

Where the traditional and administrative procedures fail to resolve disputes, the aggrieved party has the right to take the matter to the courts in accordance with the Constitution of The Gambia, other national laws, and the Lenders' policies.

### 7.2 The GERMP Grievance Resolution Committee (GGRC)

A GERMP Grievance Resolution Committee (GGRC) is proposed to be set up to inform and coordinate the relevant stakeholders and provide resources for resolution activities. The GGRC, through the Project Coordinator (Chair), shall maintain all records from complaint to final decision for future reference. The GGRC shall also ensure public participation and consultation is a part of the process at all times to promote understanding and prevent unnecessary complaints and disputes.

Membership of the GGRC shall include permanent members, whilst others will be coopted based on the region from which the grievance report comes from. For example, Kotu falls under Kanifing Municipality Mayor whilst Brikama falls under the Governor of WCR. The following membership is proposed:

- The GERMP Project Coordinator (Chair)
- The GERMP Social Safeguards Specialist (Secretary)
- The GERMP Environmental Specialist
- Representative of the Ministry of Lands and Regional Governments
- The Governor or Mayor (depending on location)

- The Seyfo / Chief of the Districts (depending on location)
- Representative of the Village Development Committee (VDC)
- Representative of the PAPs
- Relevant local NGO

### 7.3 Grievance Redress Process

The structure or steps of the grievance mechanism shall comprise of:

- Receive, register and acknowledge complaint
- Screen and establish the foundation of the grievance
- Implement and monitor a redress action
- Advise for a judicial proceeding as last resort if necessary
- Document the experience for future reference

The process is highlighted in Table 10 with suggested timeframe and responsibilities, also depicted by the flowchart in Annex 10.

**Table 10: Proposed Course of Action to Address Grievance** 

Step	Process	Description/Required Action	Completion Timeframe	Responsible Agency/Person
1	Receipt of complaint	Document date of receipt, name of complainant, nature of complaint	1 day	PCU (specifically social safeguards specialist)
2	Acknowledge ment of grievance	By letter, email, phone	1-5 days	Social safeguards specialist at the PCU
3	Screen and establish the foundation / merit of the grievance	Visit the site; listen to the complainant/community; assess the merit	7-14 days	GGRC members including the Project safeguard specialists, complainant and his/her representative
4	Implement and monitor a redress action	Where complaint is justified, identify and carry out the redress	21-30 days or at a time specified in writing to the complainant	Project Coordinator, social-, environmental safeguard specialists to coordinate the implementation of redress action
5	Extra intervention for a	Review the redress steps and conclusions, provide intervention solution	2-4 weeks of receiving status report	Project Coordinator GERMP and GGRC to review and react
	101 a	ווונפו יפוונוטוו זטוענוטוו	status report	TEVIEW ATTUTE ACT

	dissatisfied			
	scenario			
6	Judicial	Take complaint to court	No fixed time	Complainant
	adjudication	of law		
7	Funding of	GGRC logistics and	No fixed time	GERMP
	grievance	training, redress		
	process	compensation, court		
		process		

### 8.1 Monitoring

The proposed monitoring program for the ESMF is outlined in Table 11 with suggested frequency and some indicators to measure success rate. The Project shall aim to support and facilitate monitoring by all the identified stakeholders. It should also sensitize and train all relevant stakeholders on their expected roles and responsibilities to promote consistency and efficiency.

**Table 11: ESMF Monitoring Programme** 

Activity	Responsibility for Coordination / Implementation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
Preparation of subproject ESIA/ESMPs Sensitization	PCU ESS-GERMP	- PSC (internally) - NEA	Monthly as required	Before any subproject activity	ESIA statements and ESMP for all subprojects No. of
workshop for NAWEC and all partners on	ESS-GERIVIP	(externally)			workshops held
the GERMP ESMF and other safeguards					stakeholders that participated (disaggregated
requirements					by gender)
Training of NAWEC regional staff	ESS-GERMP				No. of staff trained
on safeguards management					No. of Regions covered
Public awareness	ESS-GERMP				No. of public sensitization programmes
Environmental auditing	PCU			After year 4	- Environmental Audit Report;
					- Number of reports on implementation
					of any recommendatio n from the audit report

During Project implementation, it is important to check if the recommended mitigation measures (as outlined in Annex 9 for consideration in the ESIAs) are being carried out

effectively to ensure the Project is environmentally and socially friendly. In addition, monitoring may further identify new problems that have not been anticipated at the time of assessment, or due to changes in the design of Project activities or at the sites that may require alternative means of mitigation. For cost-effectiveness and ease of monitoring and evaluation, the ESMF/ESMP implementation and monitoring should be mainstreamed in the main Project management system at all levels.

Responsibilities have been prescribed for the various stakeholders including Project personnel, government institutions and contractors. The NEA has the legal role for overall monitoring of the ESMF implementation as required by NEMA, 1994 with support from the Project PCU. NEA collaborates with other institutions, including the Regional TACs of WCR and Kanifing Municipality based on expertise required for different parameters. Moreover, the beneficiary communities along the various corridors are the fulltime watchdogs that should internally monitor the activities of the implementing partners locally.

### 8.2 Reporting

Effective communication is essential in ensuring an environmentally sustainable Project. Therefore, it is suggested that the NEA uses the platforms of the ESIA Working Group and TACs, to report to relevant partner institutions accordingly for speedy remedial action where necessary.

The social and environmental specialists to be recruited under the GERMP PCU will be required to provide monthly reports on progress of the ESMF implementation. These reports will be submitted to the PCU for transmission to the GERMP PSC, and to the World Bank and EIB. The PCU will compile the monthly monitoring reports for an integrated monitoring and evaluation Project report to the Lenders and NEA. Progress or lack of progress must be reported for necessary improvements and identified problems to be addressed on time.

Communication and reporting at the Regional level, to the head offices of the various technical officers is essential. Monthly reports of monitoring are recommended from the NEA Regional Program Officers. The NEA, through its related officers, ensures that recommendations of the reports are taken into account by the relevant parties, and PSC through the Project Coordinator.

#### 8.3 Environmental Audit

This is a systemic review of the activities against the ESMF to ensure that it is implemented as planned and possible identification of any risk and impact that has not been anticipated due to changes in the design of Project activities or changes at the sites that may require alternative means of mitigation. An independent environmental audit is therefore recommended by year 4 of the Project implementation.

### 8.4 Estimated Cost for Implementation of the ESMF

The proposed budget for implementation of the ESMF is \$290,000 as stated in Table 12.

Table 12: Proposed budget for the ESMF implementation

No.	Activity	Cost \$US
1	Preparation of subproject ESIA/ESMPs/RAPs and GBV	150,000.00
	Action Plan	
2	Sensitization workshop for NAWEC and partners	10,000.00
	(including TACs) on the GERMP ESMF	
3	Training of NAWEC regional staff on safeguards	10,000.00
	management	
4	Public awareness	5,000.00
5	ESMF Monitoring	15,000.00
6	Environmental auditing	15,000.00
7	GBV	30,000.00
8	Water related aspects	30,000.00
9	GRM Implementation	25,000.00
	TOTAL	290,000.00

### 11.1 Conclusion

As the ESMF has outlined the main potential impacts of the GERMP, preparation of the subprojects will bear in mind such issues to prevent or reduce negative environmental and social impacts. Subsequent environmental assessments, ESMPs and related RAPs when fully implemented shall also promote sustainability of the Project and ensure support by affected communities. Strategies that will be employed include:

- NAWEC shall develop standards for T&D and water infrastructural development for safety and consistency.
- NAWEC will consider Projects in a coordinated and collaborated manner to reduce staff and other resource expenditure on various similar Project proposals by both NAWEC and private investors.
- Alternative sites, designs and technologies shall always be well explored by NAWEC to avoid negative impacts, including resettlement.
- As suggested by the NEA, NAWEC shall aim to start the ESIA process early in project /subproject development to allow enough time for the process to be completed without delay.

Bibliography

DHHS, NIOSH (July 2001), NIOSH Alert: Preventing Injuries and Deaths from Falls during Construction and Maintenance of Telecommunication Towers. Department of Health and Human Services, National Institute for Occupational Safety and Health [DHHS (NIOSH) Publication No. 2001–156]. Online at <a href="https://www.cdc.gov/niosh/docs/2001-156/pdfs/2001-156.pdf">https://www.cdc.gov/niosh/docs/2001-156/pdfs/2001-156.pdf</a>

DWR (2017) Climate data of The Gambia

EIB (2013) European Investment Bank Environmental and Social Handbook

GoTG (1990) Public Health Act

GoTG (1991) Land Acquisition and Compensation Act

GoTG (1991) Physical Planning and Development Control Act

GoTG (1991) State Lands Act

GoTG (1994) National Environment Management Act

GoTG (1995) Development Control Regulations

GoTG (1995) State Lands Regulations

GoTG (1997) Constitution of the Republic of The Gambia

GoTG (1999) Environmental Discharge (Permitting) Regulations

GoTG (1999) Environmental Quality Standards Regulations

GoTG (2002) Local Government Act

GoTG (2006) Forestry Policy (2006-2016)

GoTG (2009) Agriculture and Natural Resources (ANR) Policy

GoTG (2010) The Women's Act

GoTG (2014) EIA Regulations

GoTG (2017) National Development Plan 2018-2021

Gov't of Grenada (2011; updated 2015) Disaster Vulnerability Reduction Project - RPF

Himberg, H. (2015) Comparative Review of Multilateral Development Bank Safeguard Systems, Operations Policy and Country Services

Lahmeyer International GmbH (2008) Renewable Energy Study for The Gambia – Feasibility Study Solar Home System Program

National Women's Bureau (2009) The Gambia National Gender and Women Empowerment Policy 2010-2020

NAWEC (2015) Gambia Electricity Support Project - ESMP

NEA (1999) Environmental Impact Assessment (EIA) Guidelines

NEA (1999) Environmental Impact Assessment (EIA) Procedures

NEA (2009) Gambia Environmental Action Plan, Phase II (2009-2018)

NEA (2016) Strategic Environmental Assessment (SEA) Policy 2017-2021

WB (1999) Operational Manual Operational Policies OP 4.01 Environmental Assessment

WB IFC (2007) EHS General Guidelines

WB IFC (2007) EHS Guidelines for Electric Power Transmission and Distribution.

Yves J.M. Lamour (2014), Brikama Solar Park, Brikama, West Coast Region - Environmental Impact Statement

Annex A: List of Persons Met

DATE	LOCATION / VENUE	NAME	DESIGNATION	INSTITUTION / COMMUNITY
13/09/17	Petroleum House, Brusubi	Mod Ceesay	Permanent Secretary	Ministry of Petroleum and Energy
15/09/17	Department of	Malang Jarseh	Deputy Director	Department of Forestry
	Forestry, Banjul	Cherno Gaye	Senior Forestry Officer	Department of Forestry
		Saikou Sonko	Forestry Officer	Department of Forestry
15/09/17	Department of Physical Planning and	Musa Batchilly	Director	Department of Physical Planning and Housing
	Housing, Marina Parade, Banjul	Mamudou Manjang	Assistant Director	Department of Physical Planning and Housing
		Essa Camara	Principal Physical Planning Officer	Department of Physical Planning and Housing
		Mariama Jobarteh	Development Control Technician	Department of Physical Planning and Housing
18/09/17	NEA Head Office, Kanifing	Malick Bah	Senior Programme Officer, EIA	NEA
		Buba Sey	Programme Officer, EIA	NEA
		Lamin Samateh	Environmental Inspector	NEA
18/09/17	Ministry of Lands and Regional Governments, Banjul	Buba Sanyang	Permanent Secretary	Ministry of Lands and Regional Governments
20/09/17	NAWEC Headquarters, Serrekunda	Demba Jallow	Project Coordinator, GESP, and NAWEC Corporate Planning Manager	NAWEC
		Lang Sabally	Director - Corporate Affairs	NAWEC
		Alhagie Cham	Manager, Planning and Corporate Services Division	NAWEC
		Bambo Fatty	T&D	NAWEC
		Assan Colley	Draughtsman	NAWEC
21/09/17	Governor's Office, WCR, Brikama	Ebrima Mballow	Governor, West Coast Region (Chair, TAC WCR)	Governor's office, Brikama
		Omar Sanyang	TAC member, WCR	Gambia Red Cross Society
		Aba Colley	Police Commissioner	Gambia Police Force

DATE	LOCATION / VENUE	NAME	DESIGNATION	INSTITUTION / COMMUNITY
			(TAC member, WCR)	COMMONT
		Samba Bah	Director (TAC member, WCR)	State Intelligence Agency
		Adama Keita	TAC Member, WCR	National Aids Secretariat
		Kaddy Bojang Saidy	TAC Member, WCR	Department of Agriculture
		BakaryJarju	TAC Member, WCR	Gambia Fire and Rescue Services
		Gibril Sanneh	TAC Member, WCR	Regional Health Directorate
		Baboucarr Secka	TAC Member, WCR	Department of Youth and Sports
		Binta Sey	TAC Member, WCR	National Disaster Management Agency
		Alfusainey Jarju	Seyfo	Foni Bintang District
		Jammeh K. L. Bojang	Seyfo	Kombo Central District
21/09/17	Proposed site for 23ha solar field at Jambur	Sheriff Sonko	Potential PAP /land claimant	Jambur Village
		Lamin Sonko	Community member	Jambur Village
		Ousman Bojang	Community member	Jambur Village
		Momodou Jallow	Community member	Jambur Village
		Oumie Bojang	Potential PAP	Jambur Village
		Jariatou Bojang	Potential PAP	Jambur Village
		Gala Bah	Community elder	Jambur Village
		Juma Bojang	Community member	Jambur Village
		Yusupha Sanyang	Badge Messenger / Village Alkalo Representative	Jambur Village
		Momodou Jaiteh	Managing Director	Green Vision International Ltd. (Estate Developer)
22/09/17	Kuntair Health Centre,	Amie Bobb	Officer in Charge	Kuntair Health Centre
	Kuntair, NBR	Victor Jatta	Public Health Officer	Kuntair Health Centre
23/09/17	Farafenni Senior Secondary School, Farafenni	Abdou Giggo	Deputy Principal	Farafenni Senior Secondary School
25/09/17	Field visit along 132kV T&D route	Edrissa Jarju	Senior Manager, Transmission &	NAWEC

DATE	LOCATION / VENUE	NAME	DESIGNATION	INSTITUTION /
				COMMUNITY
			Distribution	
			Division, and Head	
			of Renewable	
			Energy Unit	
07/02/2020	PURA Headquarter	Sompo Ceesay	Director of Water	PURA
		and Musa Njie	and Energy	
			Water Manager	
07/02/2020	NAWEC PIU Office	Mbye Jeng	President of the	NGO working in the water
			NGO Ebbehgi	sector to help vulnerable
				communities to get access
11/02/2020	NEA Headquarter	Malick Bah and	Director of Service	National Environment Agency
		Lamin Camara	Network and	
			Senior Program	
			Officer	
12/02/2020	Department of Water	Lamin Touray	Director	Department of Water
	Resources			Resources

### **Annex B: ESMF Consultations**

### **Summary of Consultations Views and Concerns of Stakeholders**

Issues discussed	Feedback/Response from Stakeholders
The components and benefits of	The project has come to develop the country, so it is a
the GERMP	good one and an a welcomed the initiative
	Any Project to supply electricity to health facilities is
	welcomed as it is very difficult to work without power
	supply; fans, fridges, water pumps, continuous lighting
	and computers cannot be operated
	Solar installations would be helpful for lighting,
	computing classes and pumping of water in schools
ICapacity of stakeholders to carry	Although there are capacity constraints in logistics and
out responsibilities under this	human resources stakeholders are prepared to
Project	contribute in implementation and monitoring of the
	Project.
	It is recommended to have accredited Labs for water
	with quality standard and assurance for regulation. This
	will help for the waste waste reuse for agriculture
	purpose for example.
	The Project shall also provide the necessary training and
	sensitization on roles and expectations.
Institutional arrangements	Stakeholders are ready to play their roles, and hope
relevant to the project; roles and	NAWEC will also play its role in coordination and
responsibilities including	facilitation.
monitoring and reporting	There is a need to get support for the Water regulation
	because the Water Act is still in the pipeline, the former
	Act is from 1979, its amendments are no more relevant.
	TACs are aware of their limitations in the area of
	environmental impact assessment, however, capacity
	building in ESIA is necessary for effective participation
Timely start of environmental	It is hoped that the environmental assessment will begin
and social assessments	soon so that the works can go on as the Project is much
	needed by The Gambia.
	NAWEC also has to involve the NEA early in project
	development to avoid delays.
	NAWEC needs to plan and allow adequate time for the
	environmental and social safeguard processes.
Water Quality and Monitoring	It is expected that the lab of NEA and DWR to be
	strengthen in order to be able to test all potential
	pollutants but also the adequate the adequate personnel
	for the analysis of those tests from the lab.
	NAWEC should demarcate and mark land given to them
	until they are ready for use to avoid encroachment.

Land ownership, land use, resettlement and compensation issues	NAWEC shall also find and keep suitable land as reserve for similar projects rather than wait until such land is needed
	There is adequate unused space for housing potential solar panels and associated equipment in most health facilities and schools
Proposed on-grid solar Project sites and potential alternatives and impacts	Q: The negative impacts will include our land and compound fences. What will NAWEC do for us? This is traditional land, and is NAWEC going to compensate all the current occupiers? Can NAWEC find alternative sites for the solar fields?
	A: RPF will be developed to ascertain ownership and ways of compensation, if applicable, before any works start. Other areas shall also be explored to see which sites are more feasible for the projects.
Relevant regulatory instruments	Respective regulatory framework will be implemented to guide such projects although some may need review.  Q: Will the Project support in finalization and review of legislation for smooth operation?
	A: It will be outside the scope of the GERMP which has specific objectives and activities.
Environmental and Social safeguards	Comment: There are other projects in the Country which do not give consideration to safeguards, or even when there are plans, implementation does not take place effectively. We hope that this Project does not do the same.
	Response: The Lenders will not allow that, thus, the purpose of the ESMF and meeting is to involve all stakeholders and ensure safeguard procedures are implemented.
There are potential health and safety issues especially during construction	For student safety to be assured, works could be carried out during weekends as there is always class sessions in the afternoons.
	Contractors should supervise their workers to make sure safety is given priority for their benefit and the public at large.
Dispute resolution practices (existing and mechanism proposed for the GERMP)	There are traditional and legal methods to solve complaints and problems. Usually problems are solved at

	the local level, however, the courts may be involved when necessary.
Maintenance and sustainability	Off-grid solar installations are easy to operate, however,
of Project infrastructure	it is difficult to get experienced technicians to advice on required electricity capacity based on energy needs, and problems with installations.  Sustainability of the solar installations is a problem that has to be considered by the Project.

### Some photos during consultations



Meeting with NAWEC Officials at NAWEC Headquarters, Mamady Maniyang Highway, Serrekunda



Meeting in Jambur between the proposed 23ha site for the solar field and Bamba Forest



Solar panels within Kuntaur Health Centre



Non-operational solar panels for water pumping at Kuntair Health Centre



Non-operational solar panels at Farafenni Upper Basic School

### **Annex C: EIA Screening Form**





### **NATIONAL ENVIRONMENT AGENCY**

5 Fitzgerald Street, PMB 48, BANJUL, The Gambia Tel: (220) 228056 - Fax: (220) 229701 email-nea@gamtel.gm Serial No.

### **ENVIRONMENTAL IMPACT ASSESSMENT SCREENING FORM**

Please type or print clearly, completing this form in its entirety. You may provide additional information on a separate sheet of paper if necessary. Kindly note that the information you are to provide is required by Section 22 of the National Environmental Management Act of 1994 and it is an offence to give inaccurate information under Section of the same Act.

SECTION 1: INFORMATION ON THE CONTACT PERSON
Name
Institutional Affiliation
Business Title/position
Business Address
Telephone
SECTION 2: DESCRIPTION OF THE PROPOSED PROJECT
Name of Proposed Project
Date expected to start construction
Proposed location of project
Land Area (Approximate land area and of proposed location)

Current Land Use (Describ	e how the land is being used at preser	nt)	
Describe any Possible Alte	rnative Site(s)		
located within 100 metres Indicate the proximity of	dustries or facilities (including health continuities or facilities (including health continuities or are proposed to be located in proposed industrial site to residestal or cultural importance.	ed near the pro	posed facility.
•	e infrastructure exists at the propose y and water lines, or drainage systems project.	•	
SECTION 3: EMPLOYEES	S AND LABOURERS		
Number of people to be e	mployed:		
Employees and Labourers	During Construction	During Operation	Routine
Indicate whether you pl permanent workers.	an to construct housing/sanitation	facilities for	temporary or
SECTION 4: DESCRIPTION	ON OF INDUSTRIAL PROCESS		
Briefly describe the type ar	nd nature of industrial processes to be	conducted at t	he installation.
			<del> </del>

State the type and quantity of energy to be used (including the origin of the energy, i.e. public utility, on-site generator, wood, solar, wind, etc.)

Type(s) and Source	Quantity	Period (per day/week/etc.)

Estimate the quantities of water to be used for the following:

Use(s) of Water	Quantity	Period	Source
Cooling			
Steam Generation			
Production Process			

List the type and quantity of raw materials to be used per year in the production process (including soil, sand, cement, aggregates, wood, animals, etc.). Identify if the sources of all raw materials.

Туре	Quantity	Source

List all the chemical expected to be used for any aspect of the production process (A separate list may be attached with more detailed information)

Name/Type	Description	Quantity

SECTION 6: PRODUCTS

Briefly state the nature of the product(s) or output of the proposed facility, and the expected quantities on a quarterly or annual basis. Indicate the intended uses of the product(s).

Name of Product/Output	Description of Uses	Anticipated Output per Qtr/Yr

# SECTION 7: BY-PRODUCTS, WASTE MANAGEMENT AND DISPOSAL Specify the nature of each waste or by-product and the quantity to be generated

Туре	Description	Quantity in Kg per wk/mo
Solid (Bulk)		
Solid (particulate)		
Liquid		
Gaseous		
Other		

Proposed method of disposal or management of wastes (e.g burning, bury, etc.)

Type of Waste	Method of Disposal/Management

Indicate sources of noise pollution, the type/quality of nose (i.e. machinery/repetitive pounding, etc.)

Source of Noise	Type of Noise

### SECTION 8: ENVIRONMENTAL IMPACTS

Please indicate environmental impacts that may occur as a result of the proposed project

Nature of Impact	Y/N	Brief Description of the Anticipated Impacts
Air Quality		
Drainage		
Landscape		
Forest Cover		
Vegetation		
Human Population		
Animal Population		
Soil Quality		
Soil Erosion		
Water Quality		
Tranquillity/Noise		
Special Habitats		
Other		

### SECTION 9: PROPOSED MITIGATION MEASURES

Indicate whether measures are being considered to mitigate against damage likely to be caused by the proposed project to human health and/or the environment. Briefly describe these measures.

Air Pollution		
Water Pollution		
Noise Pollution		
Removal	of	
vegetation		
Wastes		

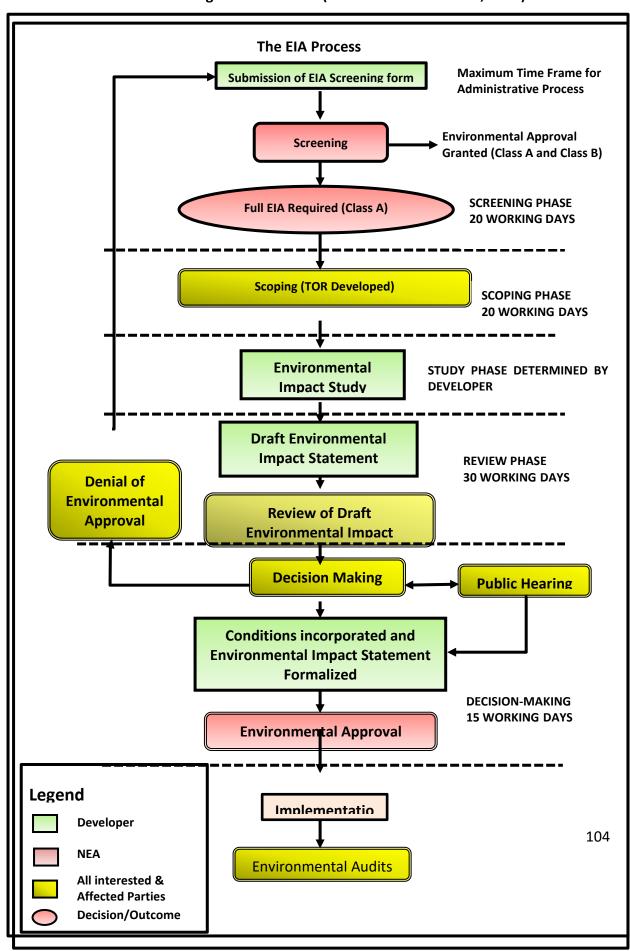
Displacement of	
human populations	
Destruction of fish	
habitat	
Destruction of	
special habitats	
Soil Erosion	
Others	
	rience you have with implementing the above-mentioned mitigation have prior experience, what skills do you possess to implement these
What staff training wil safety standards?	be provided to ensure compliance with health and environmental
Serial No	

### **SECTION 10: TESTIMONY**

I confirm that the information provided herein is accurate to the best of my knowledge. I will also endeavour to provide additional information and facilitate a site visit if required.

 Signed: Developer	Date		
For Official Use Only			
Reviewed by:	Date:		
Classified A B C			
Reasons for the Classification:			
Endorsed by:	Date:		
Approved by Executive Director:	Date:		

Annex D: Flowchart illustrating the EIA Process (Source: EIA Procedures, 1999)



### Annex E: Contract clauses that may be included in Contractor agreements

The rules, including specific prohibitions and construction management measures, should be incorporated into all relevant bidding documents, contracts, and work orders.

**Prohibitions:** The following activities should be prohibited on or near the project site:

- Cutting of trees for any reason outside the approved construction area
- Hunting, fishing, wildlife capture, or plant collection
- Use of unapproved toxic materials, including lead-based paints, asbestos, etc.
- Disturbance to anything with architectural or historical value
- Setting of fires
- Use of firearms (except authorized security guards)
- Use of alcohol by workers.

### **Construction Management Measures:**

### Waste Management:

- Minimize the production of waste that must be treated or eliminated.
- Identify and classify the type of waste generated. If hazardous wastes are generated, proper procedures must be taken regarding their storage, collection, transportation and disposal.
- Identify and demarcate disposal areas clearly indicating the specific materials that can be deposited in each.
- Control placement of all construction waste (including earth cuts) to approved disposal sites. Dispose in authorized areas all of garbage, metals, used oils, and excess material generated during construction, incorporating recycling systems and the separation of materials.
- Establish and enforce daily site clean-up procedures, including maintenance of adequate disposal facilities for construction debris.

### Maintenance:

- Ensure that all equipment maintenance activities, including oil changes, are conducted within demarcated maintenance areas; never dispose spent oils on the ground, in water courses, drainage canals or in sewer systems.
- Identify, demarcate and enforce the use of within-site access routes to limit impact to site vegetation.

### Labor health and safety

- Place signs and lighting at strategic locations
- Informing community before works starts
- Conduct safety training for construction workers prior to beginning work.

- Provide personal protective equipment and clothing (goggles, gloves, respirators, dust masks, hard hats, steel-toed etc.,) for construction workers and enforce their use.
- During heavy rains or emergencies of any kind, suspend all work.
- Safely store hazardous items away from the public
- Educate on risks and prevention of STIs

### **Community Safety during Construction**

The Contractor's responsibilities include the protection of every person (workers and the public) and nearby property from construction accidents. The Contractor shall be responsible for complying with all national and local safety requirements and any other measures necessary to avoid accidents, including the following:

- Carefully and clearly mark pedestrian-safe access routes.
- If school children are in the vicinity, include traffic safety personnel to direct traffic.
- Keep the public away from construction sites

#### Nuisance and dust control should include:

- Maintain all construction-related traffic at minimum
- Maintain equipment and machinery to reduce noise
- In sensitive areas (including residential neighbourhoods, health centres, schools) more strict measures may need to be implemented to prevent undesirable noise levels, including controlled working times
- Minimize production of dust and particulate materials at all times, to avoid impacts on surrounding families and businesses
- Spray water as needed on dirt roads, cut areas and soil stockpiles or fill material.
- Apply proper measures to minimize disruptions from vibration or noise coming from construction activities.

### **Community Relations**

To enhance adequate community relations, the Contractor should:

- Inform the population about construction and work schedules, interruption of services, traffic detour routes as appropriate.
- Avoid construction activities at night.

### **Chance Find Procedures for Culturally Significant Artefacts**

In case culturally valuable materials are uncovered during excavation:

 Stop work immediately following the discovery of any materials with possible archaeological, historical, paleontological, or other cultural value, announce findings to project manager and notify the PCU who in turn notifies the National Council for Arts and Culture

- Protect artefacts as well as possible, using plastic covers, and implement measures to stabilize the area, if necessary
- Prevent unauthorized access to the artefacts
- Restart construction works only upon the authorization of the relevant authorities.

### **Environmental Supervision during Construction**

The bidding documents should indicate how compliance with environmental rules and design specifications would be supervised, along with the penalties for noncompliance by contractors or workers. Construction supervision requires oversight of compliance with the ESMP by the contractor or his designated environmental supervisor.

## Annex F: Health and Safety Guidelines during Works at Heights (Adopted from DHHS/NIOSH, July 2001)

**NAWEC** as the tower/pole owner should take the following steps:

- Use contracts requiring that workers adhere to required safety measures while construction or maintenance is being performed on your poles.
- Require contractors to have a formal safety and health program relating to tower/pole construction and maintenance.
- •Include a provision in contracts for frequent and regular jobsite inspections by a competent person who has expertise in tower erection and worker fall protection.

**EMPLOYERS** should take the following steps to reduce the risk of worker injuries and deaths from falls during tower construction and maintenance:

- Ensure that hoisting equipment used to lift workers is designed to prevent uncontrolled descent and is properly rated for the intended use.
- Ensure that hoist operators are properly trained.
- Ensure workers use 100% fall protection when working on towers at heights above 25ft.
- Provide workers with a 100% fall-protection system compatible with tower components and the tasks to be performed.
- Ensure that gin poles are installed and used according to the specifications of the manufacturer or a registered professional engineer.
- Ensure that tower erectors are adequately trained in proper climbing techniques, including sustaining three-point contact.
- Provide workers with the required personal protective equipment and training in its proper use.
- Ensure that workers inspect their equipment daily to identify any damage or deficiencies.
- Provide workers with an adequate work-positioning device system. Connectors on positioning systems must be compatible with the tower components to which they are attached.
- Supplement worker training on safe work practices with discussions of case reports.
- Know and comply with child labour laws that prohibit hazardous work by workers under age.

**WORKERS** should take the following steps to protect themselves from falls during tower construction and maintenance:

- Use 100% fall protection when working on towers at heights above 25 feet.
- Participate in all training programs offered by your employer.
- Follow safe work practices identified by worker training programs.
- Use required personal protective equipment and make sure you are trained in its proper
- Inspect equipment daily and report any damage or deficiencies to your supervisor immediately.

#### **Annex G: Chance Finds Procedures**

This Chance Find Procedure shall be applied in case previously unknown culturally valuable materials are unexpectedly discovered during the GERMP implementation:

- In the case of chance find of any material with possible archaeological, historical, paleontological, religious, or other cultural value, all work at and around the find, feature or site must be stopped immediately.
- The discovery will be clearly demarcated and secured from unauthorized access, and all found remains will be left where they were found. Protect artefacts and implement measures to stabilize the area, if necessary.
- Notify the Project Manager/PCU of the findings who in turn immediately notifies the National Council for Arts and Culture for the necessary, assessment, recording and next course of action to take.
- Restart construction works only upon authorization of the relevant authorities (the National Council for Arts and Culture under the Ministry of Tourism and Culture).

### Annex H: Comparison of IDA and EIB safeguards standards that apply to the GERMP

This annex provides a comparison of IDA and EIB safeguards standards applicable to the GERMP.

The environmental and social issues addressed by EIB safeguards standards are substantially the same as those of the World Bank. Substantial portions of EIB Standards 8 and 9 (Labor Conditions, Health and Safety) are outside the scope of the World Bank OPs.

Relative to the World Bank's existing OPs, EIB provides thematic and/or more detailed coverage of the following environmental and social impacts and risks:

- Biodiversity, ecosystem services and natural resource management
- Climate change
- Community Health and Safety
- FPIC and /or reference to the UN General Assembly Resolution on the Rights of Indigenous Peoples
- Vulnerability and Impoverishment
- Labor and Working Conditions
- Stakeholder Engagement and
- Resource Efficiency

### **Components of the two Safeguard Systems**

	Over-arching Policy Statement	Operational Requirements for Borrowers / Clients	Environmental and Social Review Procedures	Access to Information Policy	Guidelines, Sourcebooks, Manuals for "Good Practice" (selected examples)
World Bank (IBRD/IDA)	None	Operational Policies	Bank Procedures	Access to Information Policy (2010)	Environmental, Health and Safety Guidelines; Involuntary Resettlement Sourcebook
EIB (2013)	Statement of Environmental and Social Principles and Standards (2009)	Environmental and Social Handbook (2013)	Environmental and Social Practices and Procedures (2013)	Transparency Policy (2011)	Sourcebook on Environmental Law; Guidance Notes (Work in Progress)
Clear distinction between		Differential application to diverse	Differential application among	Same set of safeguard requirements	Clarity between Bank and

	aspirational, mandatory and guidance policies and procedures	financing instruments	Investment Lending instruments and circumstances	applied to public and private sector	Borrower responsibilities
EIB	Yes	N/A	Yes	Yes	Yes
World Bank (IBRD/IDA)	Yes	Yes	Yes	No <sup>3</sup>	Yes - limited <sup>4</sup>

#### EIB's Operational Safeguard Requirements Applicable to Borrowers which correspond to WB Ops

#### World Bank OP 4.01 Environmental Assessment (EA)

- EA process to incorporate/address (when appropriate):
  - o more explicit definitions of "associated" and "cumulative" impacts
  - o emissions monitoring and reporting requirements
  - more explicit reference to socio-economic impacts, including vulnerable groups, gender issues, surrounding communities and poverty conditions
  - o explicit framework for consultation with affected transboundary parties
- Detailed requirements for conduct of SEA
- "Free, prior and informed engagement" [FPIE] as a standard for public consultation and participation
- EA and EMP must be in full compliance with country laws and regulations (as well as a country's international obligations)
- "Precautionary approach" to all environmental impacts
- Impact assessment of pollutants on environmental carrying capacity, land use, surrounding communities, poverty conditions, and transboundary receptors (in part);
- Inclusion of affected parties in monitoring ESMP (for specific aspects of ESMP);
- Grievance redress mechanism (GRM) during the entire project cycle to facilitate resolution
  of affected peoples' grievances regarding the environmental and social performance of the
  project.

### World Bank OP 4.36 Forests

- Biodiversity conservation expressly stated as an "integral... criterion" for siting of timber concessions
- Management criteria for second growth forests, and agro-forestry
- Assessment of impacts of plantation forests on specified ecosystem services

<sup>&</sup>lt;sup>3</sup> IDA applies the World Bank Performance Standards (OP 4.03) rather than its OPs to private sector led projects involving Public-Private Partnerships.

<sup>&</sup>lt;sup>4</sup> In principle, IDA OPs set forth the requirements for borrowers, whereas IDA BPs set forth the procedures for the Bank, but these distinctions are not consistently clear.

# World Bank OP 4.12 Involuntary Resettlement (IR)

- Application of IR safeguard to both "permanent" and "temporary" displacement
- Special consideration to claims of seasonal resource users "who may not be present during a census"
- Borrowers to improve the standards of living of the displaced poor to at least "minimum national standards"
- "Adequate housing" must meet criteria specified by the UN Habitat, Office of the UN High Commissioner for Human Rights
- Social Impact Assessment to include gender disaggregated information
- Particular attention to gender concerns and gender-based resettlement measures
- Access to safe drinking water and irrigation facilities as part of resettlement assistance
- When feasible, in-kind replacements to be applied as compensation for loss of common property resources (i.e., rivers, lakes, forest resources)
- "Broad Community Support" required for IR
- Detailed analysis of impacts on, and specified benefits to host communities

Annex I: Sample Monitoring Programme for consideration during the ESIAs

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
	•		On- (	Grid Solar Fields	•		
Land clearance and preparation	Relocation of persons	Prepare RAP in case there is resettlement	NAWEC/PCU	NEA	Once, or as required if there is a breach	Before Project appraisal	RAP is available; No. of PAPS;
	Felling trees	Replant equivalent area cleared with trees of same species in 1:4 ratio	NAWEC/PCU	NEA/DOF	Once, or as required if there are breaches	Monthly	No. of plants replanted; area replanted; reports on process
	Accumulation of waste and debris	Use appropriate waste management measures; do not burn	Contractor	NEA	Once, or as required if there are breaches	During works	No. of Reports; Waste management plan
	Soil erosion	Install erosion control measures	Contractor	NEA	As above	As above	No. of Reports
	Dust generation	Periodic sprinkling of water over ground to control dust	Contractor	NEA	As above	As above	No. of Reports

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
Off-Grid Facilities	(Schools/Health	Centers/Industria	l establishments)				
Land preparation	Land preparation	Use appropriate waste management measures; do not burn	Contractor	NEA/PCU	Weekly	During works	No. of Reports on process
		Sprinkle water over ground to control dust	Contractor	NEA	Once, or as required if there are breaches	As above	No. of Reports
Quarrying for sand and gravel for construction of house to host batteries and inverters	Quarrying for sand and gravel for construction of house to host batteries and inverters	All local sites for extraction of earth materials shall be approved	Contractor	NEA/Geology Dept.	AS above	Before quarrying	Certificate of site approval
Use of Batteries and inverters	Use of Batteries and inverters	Prepare waste management plan for end of life of batteries	MOBSE/MOH	NEA	AS above	Before end of battery life	Process Report

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
		Dispose batteries in an environmentall y friendly way	MOBSE/MOH/ Manufacturing Industries	NEA	As above	After decommissionin g	Report on process
Nonexistent or non-implementation of Environmental Management	Workplace health and safety risks are not being adequately	Develop and/or implement ESMP and Health and Safety Plan	Respective School/Health/ Manufacturing industries	NEA/PCU	Once, or as required if there are breaches	During and after project implementation	Reports on process
Plan (EMP) or Health and Safety Plan for industrial facilities	managed	Correct substandard conditions requiring urgent attention	As above	As above	As above	As above	Reports on process
		Develop and implement and action plan to correct other deficiencies	As above	As above	As above	As above	As above

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
		Identify and empower (or recruit) responsible individuals to manage health, safety and environment at the facility	As above	As above	As above	As above	As above
		Start or restart awareness training	As above	As above	As above	As above	As above
	Waste Management	Develop and implement a site waste management plan	As above	NEA	As above	AS above	Site waste management Plan; Reports
Transmission and	Distribution Net	work		•	•		
Erection of Towers/Poles: Excavation of base of poles;	Onsite noise and vibration effects on workers and	Maintain all work equipment at optimal	Contractor	NEA	Once, or as required if there are breaches	Monthly	Reports

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
erecting new pole /removing/replac	nearby houses	operating condition to control noise					
ing pole	Felling trees in forested areas	Replant equivalent area cleared with trees of same species in 1:4 ratio	NAWEC/PCU	NEA/DOF	Once, or as required if there are breaches	Monthly	No. of plants replanted; area replanted; reports on process
	Accumulation of debris and/or groundwater contaminatio n from accidental	Use appropriate waste management measures; do not burn	Contractor	NEA	As above	Monthly	Reports
	fuel/engine oil spill refueling	Use drip pans to contain any spills during refueling activities	Contractor	NEA	AS above	As above	Reports

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
		Train personnel in safe fuel handling	Contractor	As above	During works	Reports;	Waste management plan
	Soil erosion	Install erosion control measures	Contractor	NEA	As above	As above	Reports
	Dust generation	Periodic sprinkling of water over ground to control dust	Contractor	NEA	As above	As above	Reports
	Relocation of persons, structures, crops, etc.	Prepare RAP	NAWEC/PCU	NEA	Once, or as required if there is a breach	Before Project appraisal	RAP
	Damage to roads and other infrastructure caused by transit of heavy trucks	Routine inspection, and prompt repair of any damaged road	Contractor	NRA	AS above	During works	Reports

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
Line stringing or restringing	Onsite noise and vibration effects on the workers	Maintain all work equipment at optimal operating condition to avoid noise	Contractor	NEA	Once, or as required if there is a breach	During Works	Reports
	Disturbance by noise and vibration in surrounding communities	Maintain all work equipment at optimal operating condition to avoid noise	Contractor	NEA	Once, or as required if there is a breach	During Works	Reports
	Risk of accidents to life and property	Train and equip workers in safety while working at heights and working with high voltage	Contractor	NEA/NAWEC	As above	As above	Reports

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
		Use warning signs and, where necessary, personnel to direct traffic	Contractor	NEA	As above	As above	Reports
Operation of Transmission Line	Exposure to electromagne tic fields	Prevent encroachment and enforce restrictions on activities in line corridor	NAWEC	NEA	As above	During and after Project	Reports
	Risk of electrocution, injury or property damage	Post warning signs and design poles/towers to prevent access to conductors by unauthorized personnel	NAWEC	NEA	As above	During and after works	Reports

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
Maintenance of Transmission Line: mechanical clearing of immediate vicinity of	Accumulation of brush and debris	Use appropriate disposal techniques; prohibit burning	NAWEC	NEA	As above	During and after project	Reports
poles/towers of vegetation	Soil/ groundwater contaminatio	Train personnel in safe fuel handling	NAWEC	NEA	As above	As above	Reports
n from accidental fuel/engine oil spill refueling	Use drip pans to contain any spills during refueling activities	NAWEC	NEA	As above	As above	Reports	
	Risk of accidents to life and property	Use warning signs and, where necessary, personnel to direct traffic	NAWEC	NEA	As above	As above	Reports

Laying underground cables

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
Trench digging to bury cables	Risk of accidents to life and property	Use warning signs and, where necessary, personnel to direct traffic/pedestri ans	Contractor	NEA	Once, or as required if there is a breach	During works	Reports
	Disturbance by noise and vibration in surrounding communities	Maintain all work equipment at optimal operating condition	Contractor	NEA	As above	During works	Reports
		Select an appropriate time to avoid disturbing people asleep	Contractor	NEA	As above	During works	Reports
		Limit construction activities at night	Contractor	NEA	As above	During works	Reports

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
	Generation of	Sprinkle water	Contractor	NEA	As above	During works	Reports
	dust	to reduce dust					
	Soil erosion	Install erosion control structures	Contractor	NEA	As above	During works	Reports
	Damage to roads and other infrastructure caused by trenches	Routine inspection, and prompt repair of any damaged road	Contractor	NRA	As above	During works	Reports
	Relocation of persons, structures, crops, etc.	Prepare RAP	NAWEC/PCU	NEA	As above	Before project appraisal	Reports; RAP
Typical impacts du	iring constructio	n of new substation	on/upgrading of	existing substation	on		
Land clearing and preparation: bulldoze, excavate, backfill with earth;	Felling trees; accumulation of waste and debris	Replant equivalent area cleared with trees of same species in 1:4	NAWEC/PCU	NEA/DOF	Once, or as required if there are breaches	Monthly	No. of plants replanted; area replanted; reports on process
transportation of		ratio					

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
materials and mixing concrete		Use appropriate waste management measures; do not burn	Contractor	NEA	Once, or as required if there are breaches	During works	Reports; Waste management plan
	Dust and air pollution	Periodic sprinkling of water over ground to control dust	Contractor	NEA	As above	As above	Reports
		Provide protective apparel to workers	Contractor	NEA	As above	As above	Reports
	Construction activities may impact on physical cultural assets (such as historical and	Apply the procedures for chance finds	Contractor	NEA	As above	As above	Reports

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
	archaeologica l items; graves, etc.						
Nonexistent or non- implementation of Environmental Management	Workplace health and safety risks are not being adequately	Develop and/or implement ESMP and Health and Safety Plan	NAWEC/ Contractor	NEA	As above	During and after project	Reports
Plan (EMP) or Health and Safety Plan	managed	Start or restart awareness training	NAWEC/ Contractor	NEA	As above	During and after project	Reports
		Identify and Empower (or recruit) responsible individuals to manage health, safety and environment at the facility	NAWEC/ Contractor	NEA	As above	During and after project	Reports
	Effluent, emission and noise	Correct substandard conditions	NAWEC/ Contractor	NEA	As above	During and after project	Reports

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
	standards are not being complied with. Ambient conditions in the area exceed standards.	requiring urgent attention					
	Spills and leaks have contaminated soil, structures, and possibly groundwater	Develop and implement and action plan to address contamination	NAWEC/ Contractor	NEA	As above	During and after project	Reports; action plans
Environmental and health and safety monitoring is not being conducted	No database by which to judge compliance with	Formulate and/or implement monitoring plans	NAWEC	NEA	Once, or as required if there are breaches	During and after Project	Reports; monitoring plans
	standards in the	Identify and empower (or	NAWEC	NEA	As above	During and after Project	Reports

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
	·		J		, ,		
	workplace, or	recruit)					
	in effluent	responsible					
	and	individuals to					
	emissions	manage					
		monitoring					
		program					
	No database	Repair or	NAWEC	NEA	As above	During and after	Reports; type and number of
	to monitor	obtain				Project	equipment obtained
	effects on	monitoring					
	ambient	equipment					
	conditions						
Immediate and	Workers	Restrict access	NAWEC	NEA	As above	During and after	Reports on process
severe health	exposed to	and provide				project	
and safety risks	hazardous	protective					
exist in the	substances	equipment					
substation	such as PCB	until condition					
		is abated					
	Workers	Correct	NAWEC	NEA	As above	During and after	Reports on process
	exposed to	conditions				Project	
	high noise						
	levels, poor						
	ventilation or						
	lighting, etc.						

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
	Workers exposed to risk of electrocution because of	Post warning signs and restrict access until condition can be abated	NAWEC	NEA	As above	During and after Project	Reports on process
	old or poorly- maintained equipment, lack of safety procedures	Institute or reinstate "lock-out and tag-out" and similar procedures	NAWEC	NEA	As above	During and after Project	Reports on process
Inadequate security provisions for the facility	Social conflict between the facility and the surrounding community	Establish effective, ongoing community relations program	NAWEC	NEA	As above	During and after Project	Reports on process
	Vandalism or sabotage	Employ security personnel, ideally from local area	NAWEC	NEA	As above	During and after Project	Reports on process
	Risk of electrocution or injury from	Install fences and other security	NAWEC	NEA	As above	During and after Project	Reports on process

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
	contact with	features					
	high voltage	around all					
	equipment	dangerous or					
		vulnerable					
		facilities Post					
		warning signs					
_							
Replacement of LE Nonexistent or	Workplace	Develop and/or	NAWEC	NEA	Once, or as	During and after	EMP/HSP/
Nonexistent or non-	Workplace health and	Develop and/or implement		NEA	required if	During and after Project	EMP/HSP/ Reports on process
Nonexistent or non-implementation	Workplace	Develop and/or implement EMP/ Health		NEA	required if there are	_	, ,
Nonexistent or non-	Workplace health and safety risks are not being	Develop and/or implement	NAWEC		required if	Project	, ,
Nonexistent or non- implementation of Environmental Management	Workplace health and safety risks are not being adequately	Develop and/or implement EMP/ Health and Safety Plan Conduct		NEA NEA	required if there are	Project  During and after	Reports on process  Reports on process; No. of
Nonexistent or non- implementation of Environmental Management Plan (EMP) or	Workplace health and safety risks are not being adequately managed;	Develop and/or implement EMP/ Health and Safety Plan Conduct awareness	NAWEC		required if there are breaches	Project	Reports on process
Nonexistent or non- implementation of Environmental Management Plan (EMP) or Health and	Workplace health and safety risks are not being adequately	Develop and/or implement EMP/ Health and Safety Plan Conduct	NAWEC		required if there are breaches	Project  During and after	Reports on process  Reports on process; No. of
Nonexistent or non- implementation of Environmental Management Plan (EMP) or	Workplace health and safety risks are not being adequately managed; noise	Develop and/or implement EMP/ Health and Safety Plan Conduct awareness	NAWEC		required if there are breaches	Project  During and after	Reports on process  Reports on process; No. of
Nonexistent or non- implementation of Environmental Management Plan (EMP) or Health and	Workplace health and safety risks are not being adequately managed; noise standards are	Develop and/or implement EMP/ Health and Safety Plan Conduct awareness	NAWEC		required if there are breaches	Project  During and after	Reports on process  Reports on process; No. of

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
Non adherence to accepted social norms of local communities	Disharmony in public relationship	Assign local liaison person who is in charge of communication with the contractor and receiving requests / complaints from local population	Contractor	PCU	Once, or as required if there are breaches	During project implementation	Local liaison person assigned and operating; No. of complaints received and addressed; reports on the process
		Inform the population about construction and work schedules, interruption of services, traffic detour routes and provisional bus routes	Contractor	PCU	Once, or as required if there are breaches	During project implementation	Notices/sign boards put out to inform population; reports on the process

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
		At least five days in advance any service interruption (including water, electricity, telephone, bus routes) the communities must be advised through posting at the project site, bus stops, in affected homme / business or diffused in media	Contractor	PCU	Once, or as often as required if there are breaches	During project implementation	Notices/sign boards put out to inform population; reports on the process
		Establish a Grievance Redress	Contractor	PCU	Once, or as required if	During project implementation	GRM is established and operational; No. of concerns

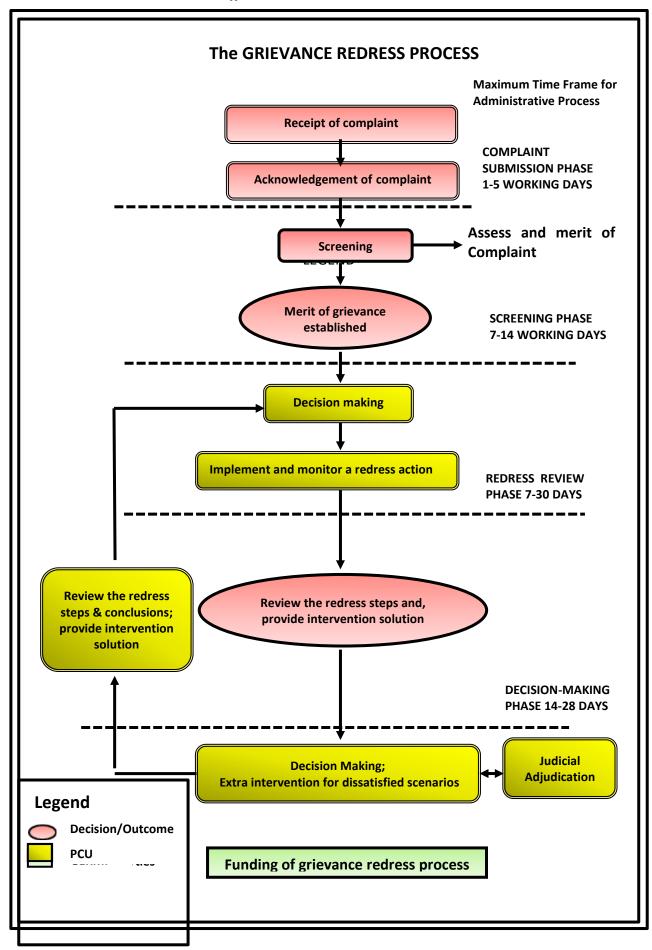
Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
		Mechanism accessible to local people in line with applicable project social frameworks and Contractor shall establish measures to address concerns raised through GRM within the designated timeline if they are responsible			there are breaches		raised/received/addressed; reports on the process
	Labor Management	To the extent possible, work camps should not be located in close proximity to	Contractor	PCU	Once, or as required if there are breaches	During project implementation	Reports on the process; No. of camps located away from local communities

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
		local communities					
		Siting and operation of any worker camps should be undertaken in consultation with neighboring communities	Contractor	PCU	Once, or as required if there are breaches	During project implementation	No. of worker camps established; reports on consultations with neighboring communities; No. of consultations; participants present at consultations
		Recruit unskilled or semi-skilled workers from local communities to the extent possible. Where and when feasible, worker skills training, should	Contractor	PCU	Once, or as required if there are breaches	During project implementation	No. of semi-skilled/unskilled workers from local communities recruited; No. of training sessions held; reports on the process

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
		be provided to enhance participation of local people Raise awareness of worker on overall relationship management with local population, establish a code of worker conduct in line with international practice and strictly enforce	Contractor	PCU	Once, or as required if there are breaches	During project implementation	Reports on process of awareness creation; No. of workers involved; code of worker conduct developed; No. of workers penalized/admonished/dism issed
		them, including the dismissal of workers and					

Activity / Issue	Potential Impact	Mitigation Measure	Responsibility for Mitigation	Responsibility for Monitoring	Monitoring Frequency	Monitoring Period	Monitoring Indicators
		financial penalties					

Annex J: Flowchart Illustrating the Grievance Redress Mechanism



#### **Annex K: Codes of Conduct**

Codes of Conduct and Action Plan For Implementing ESHS and OHS Standards, and Preventing Gender Based Violence and Violence Against Children

#### **Background**

The purpose of these *Codes of Conduct and Action Plan for Implementing ESHS and OHS Standards, and Preventing Gender Based Violence (GBV) and Violence Against Children (VAC)* is to introduce a set of key definitions, core Codes of Conduct, and guidelines that:

- clearly define obligations on all project staff (including sub-contractors and day workers) with regard to implementing the project's environmental, social, health and safety (ESHS) and occupational health and safety (OHS) requirements, and;
- ii. help prevent, report and address GBV and VAC within the work site and in its immediate surrounding communities.

The application of these Codes of Conduct will help ensure the project meets its ESHS and OHS objectives, as well as preventing and/or mitigating the risks of GBV and VAC on the project and in the local communities.

These Codes of Conduct are to be adopted by those working on the project and are meant to:

- i. create awareness of the ESHS and OHS expectations on the project;
- ii. create common awareness about GBV and VAC and:
  - (a) ensure a shared understanding that they have no place in the project; and,
  - (b) create a clear system for identifying, responding to, and sanctioning GBV and VAC incidents.

Ensuring that all project staff understand the values of the project, understand expectations for all employees, and acknowledge the consequences for violations of these values, will help to create smoother, more respectful and productive project implementation thereby helping ensure that the project's objectives will be achieved.

#### **Definitions**

The following definitions apply:

**Environmental, Social, Health and Safety (ESHS):** an umbrella term covering issues related to the impact of the project on the environment, communities and workers.

Occupational Health and Safety (OHS): Occupational health and safety is concerned with protecting the safety, health and welfare of people engaged in work or employment. The

enjoyment of these standards at the highest levels is a basic human right that should be accessible by each worker.

**Gender-Based Violence (GBV):** is an umbrella term for any harmful act that is perpetrated against a person's will and **that is based on socially ascribed (i.e. gender) differences between males and females.** It includes acts that inflict physical, sexual or mental harm or suffering, threats of such acts, coercion, and other deprivations of liberty. These acts can occur in public or in private. The term GBV is used to underscore systemic inequality between males and females (which exists in every society in the world) and acts as a unifying and foundational characteristic of most forms of violence perpetrated against women and girls. The 1993 United Nations Declaration on the Elimination of Violence against Women defines violence against women as "any act of gender-based violence that results in, or is likely to result in, physical, sexual or psychological harm or suffering to women." The six core types of GBV are:

- Rape: non-consensual penetration (however slight) of the vagina, anus or mouth with a penis, other body part, or an object.
- Sexual Assault: any form of non-consensual sexual contact that does not result in or include penetration. Examples include: attempted rape, as well as unwanted kissing, fondling, or touching of genitalia and buttocks.
  - Sexual Harassment: is unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature. Sexual harassment is not always explicit or obvious, it can include implicit and subtle acts but always involves a power and gender dynamic in which a person in power uses their position to harass another based on their gender. Sexual conduct is unwelcome whenever the person subjected to it considers it unwelcome (e.g. looking somebody up and down; kissing, howling or smacking sounds; hanging around somebody; whistling and catcalls; in some instances, giving personal gifts).
  - Sexual Favors: is a form of sexual harassment and includes making promises of favorable treatment (e.g. promotion) or threats of unfavorable treatment (e.g. loss of job) dependent on sexual acts—or other forms of humiliating, degrading or exploitative behavior.

<sup>&</sup>lt;sup>5</sup> It is important to note that women and girls disproportionately experience violence; overall 35 percent of women worldwide have faced physical or sexual violence (WHO, Global and regional estimates of violence against women: prevalence and health effects of intimate partner violence and non-partner sexual violence, 2013). Some men and boys also face violence based on their gender and unequal power relationships.

- Physical Assault: an act of physical violence that is not sexual in nature. Examples
  include: hitting, slapping, choking, cutting, shoving, burning, shooting or use of any
  weapons, acid attacks or any other act that results in pain, discomfort or injury.
- Forced Marriage: the marriage of an individual against her or his will.
- Denial of Resources, Opportunities or Services: denial of rightful access to economic resources/assets or livelihood opportunities, education, health or other social services (e.g. a widow prevented from receiving an inheritance, earnings forcibly taken by an intimate partner or family member, a woman prevented from using contraceptives, a girl prevented from attending school, etc.).
- Psychological / Emotional Abuse: infliction of mental or emotional pain or injury.
   Examples include: threats of physical or sexual violence, intimidation, humiliation, forced isolation, stalking, harassment, unwanted attention, remarks, gestures or written words of a sexual and/or menacing nature, destruction of cherished things, etc.

**Violence Against Children (VAC):** is defined as physical, sexual, emotional and/or psychological harm, neglect or negligent treatment of minor children (i.e. under the age of 18), including exposure to such harm,<sup>6</sup> that results in actual or potential harm to the child's health, survival, development or dignity in the context of a relationship of responsibility, trust or power. This includes using children for profit, labor<sup>7</sup>, sexual gratification, or some other personal or financial advantage. This also includes other activities such as using computers, mobile phones, video and digital cameras or any other medium to exploit or harass children or to access child pornography.

**Grooming:** are behaviors that make it easier for a perpetrator to procure a child for sexual activity. For example, an offender might build a relationship of trust with the child, and then seek to sexualize that relationship (for example by encouraging romantic feelings or exposing the child to sexual concepts through pornography).

**Online Grooming:** is the act of sending an electronic message with indecent content to a recipient who the sender believes to be a minor, with the intention of procuring the recipient to engage in or submit to sexual activity with another person, including but not necessarily the sender.<sup>8</sup>

<sup>&</sup>lt;sup>6</sup> Exposure to GBV is also considered VAC.

<sup>&</sup>lt;sup>7</sup> The employment of children must comply with all relevant local legislation, including labor laws in relation to child labor and World Bank's safeguard policies on child labor and minimum age. They must also be able to meet the project's Occupational Health and Safety competency standards.

<sup>&</sup>lt;sup>8</sup> For example, the Vanuatu Criminal Code Act 1995, Division 474 (telecommunications offences, subdivision C).

**Accountability Measures:** are the measures put in place to ensure the confidentiality of survivors and to hold contractors, consultants and the client responsible for instituting a fair system of addressing cases of GBV and VAC.

Contractors Environmental and Social Management Plan (CESMP): the plan prepared by the contractor outlining how they will implement the works activities in accordance with the project's environmental and social management plan (ESMP).

**Child:** is used interchangeably with the term 'minor' and refers to a person under the age of 18. This is in accordance with Article 1 of the United Nations Convention on the Rights of the Child.

**Child Protection (CP):** is an activity or initiative designed to protect children from any form of harm, particularly arising from VAC.

**Consent:** is the informed choice underlying an individual's free and voluntary intention, acceptance or agreement to do something. No consent can be found when such acceptance or agreement is obtained using threats, force or other forms of coercion, abduction, fraud, deception, or misrepresentation. In accordance with the United Nations Convention on the Rights of the Child, the World Bank considers that consent cannot be given by children under the age of 18, even if national legislation of the country into which the Code of Conduct is introduced has a lower age. Mistaken belief regarding the age of the child and consent from the child is not a defense.

**Consultant:** is as any firm, company, organization or other institution that has been awarded a contract to provide consulting services to the project and has hired managers and/or employees to conduct this work.

**Contractor:** is any firm, company, organization or other institution that has been awarded a contract to conduct infrastructure development works for the project and has hired managers and/or employees to conduct this work. This also includes sub-contractors hired to undertake activities on behalf of the contractor.

**Employee:** is any individual offering labor to the contractor or consultant within country on or off the work site, under a formal or informal employment contract or arrangement, typically, but not necessarily (e.g. including unpaid interns and volunteers), in exchange for a salary, with no responsibility to manage or supervise other employees.

**GBV and VAC Allegation Procedure:** is the prescribed procedure to be followed when reporting incidents of GBV or VAC.

<sup>&</sup>lt;sup>9</sup> For example, under Article 97 Criminal consolidation act for age of legal consent in Vanuatu, sexual activity with any child under the age of 15 years for heterosexual conduct and 18 years for same sex conduct is prohibited (<a href="http://tinyurl.com/vu-consent">http://tinyurl.com/vu-consent</a>). However, the World Bank follows the United Nations for the age of consent (18 years) so this applies on World Bank financed projects.

**GBV and VAC Codes of Conduct:** The Codes of Conduct adopted for the project covering the commitment of the company, and the responsibilities of managers and individuals with regards to GBV and VAC.

**GBV and VAC Compliance Team (GCCT):** a team established by the project to address GBV and VAC issues.

**Grievance Redress Mechanism (GRM):** is the process established by a project to receive and address complaints.

**Manager:** is any individual offering labor to the contractor or consultant, on or off the work site, under a formal or informal employment contract and in exchange for a salary, with responsibility to control or direct the activities of a contractor's or consultant's team, unit, division or similar, and to supervise and manage a pre-defined number of employees.

**Perpetrator:** the person(s) who commit(s) or threaten(s) to commit an act or acts of GBV or VAC.

**Response Protocol:** is the mechanisms set in place to respond to cases of GBV and VAC (see Section 4.7 Response Protocol).

**Survivor/Survivors:** the person(s) adversely affected by GBV or VAC. Women, men and children can be survivors of GBV; children can be survivors of VAC.

**Work Site:** is the area in which infrastructure development works are being conducted, as part of the project. Consulting assignments are considered to have the areas in which they are active as their work sites.

**Work Site Surroundings:** is the 'Project Area of Influence' which are any area, urban or rural, directly affected by the project, including all human settlements found on it.

#### **Codes of Conduct**

This chapter presents three Codes of Conduct for use:

- i. **Company Code of Conduct:** Commits the company to addressing GBV and VAC issues;
- ii. **Manager's Code of Conduct:** Commits managers to implementing the Company Code of Conduct, as well as those signed by individuals; and,
- iii. **Individual Code of Conduct:** Code of Conduct for everyone working on the project, including managers.

## **Company Code of Conduct**

## **Implementing ESHS and OHS Standards**

### **Preventing Gender Based Violence and Violence Against Children**

The company is committed to ensuring that the project is implemented in such a way which minimizes any negative impacts on the local environment, communities, and its workers. This will be done by respecting the environmental, social, health and safety (ESHS) standards, and ensuring appropriate occupational health and safety (OHS) standards are met. The company is also committed to creating and maintaining an environment in which gender based violence (GBV) and violence against children (VAC) have no place, and where they will not be tolerated by any employee, sub-contractors, supplier, associate, or representative of the company.

Therefore, to ensure that all those engaged in the project are aware of this commitment, the company commits to the following core principles and minimum standards of behavior that will apply to all company employees, associates, and representatives, including subcontractors and suppliers, without exception:

#### General

- 1. The company—and therefore all employees, associates, representatives, sub-contractors and suppliers—commits to complying with all relevant national laws, rules and regulations.
- 2. The company commits to full implementing its 'Contractors Environmental and Social Management Plan' (CESMP).
- 3. The company commits to treating women, children (persons under the age of 18), and men with respect regardless of race, color, language, religion, political or other opinion, national, ethnic or social origin, property, disability, birth or other status. Acts of GBV and VAC are in violation of this commitment.
- 4. The company shall ensure that interactions with local community members are done with respect and non-discrimination.
- 5. Demeaning, threatening, harassing, abusive, culturally inappropriate, or sexually provocative language and behavior are prohibited among all company employees, associates, and its representatives, including sub-contractors and suppliers.
- 6. The company will follow all reasonable work instructions (including regarding environmental and social norms).
- 7. The company will protect and ensure proper use of property (for example, to prohibit theft, carelessness or waste).

### **Health and Safety**

- 8. The company will ensure that the project's occupational health and safety (OHS) Management Plan is effectively implemented by company staff, as well as subcontractors and suppliers.
- 9. The company will ensure that all persons on-site wear prescribed and appropriate personal protective equipment, preventing avoidable accidents and reporting conditions or practices that pose a safety hazard or threaten the environment.

### 10. The company will:

- i. prohibit the use of alcohol during work activities.
- ii. prohibit the use of narcotics or other substances which can impair faculties at all times.
- 11. The company will ensure that adequate sanitation facilities are available on site and at any worker accommodations provided to those working on the project.

### **Gender Based Violence and Violence Against Children**

- 12. Acts of GBV or VAC constitute gross misconduct and are therefore grounds for sanctions, which may include penalties and/or termination of employment, and if appropriate referral to the Police for further action.
- 13. All forms of GBV and VAC, including grooming are unacceptable, regardless of whether they take place on the work site, the work site surroundings, at worker's camps or within the local community.
  - i. Sexual Harassment—for instance, making unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct, of a sexual nature, including subtle acts of such behavior, is prohibited.
  - ii. Sexual favors —for instance, making promises or favorable treatment dependent on sexual acts—or other forms of humiliating, degrading or exploitative behavior are prohibited.
- 14. Sexual contact or activity with children under 18—including through digital media—is 7prohibited. Mistaken belief regarding the age of a child is not a defense. Consent from the child is also not a defense or excuse.

- 15. Unless there is full consent<sup>10</sup> by all parties involved in the sexual act, sexual interactions between the company's employees (at any level) and members of the communities surrounding the workplace are prohibited. This includes relationships involving the withholding/promise of actual provision of benefit (monetary or non-monetary) to community members in exchange for sex—such sexual activity is considered "non-consensual" within the scope of this Code.
- 16. In addition to company sanctions, legal prosecution of those who commit acts of GBV or VAC will be pursued if appropriate.
- 17. All employees, including volunteers and sub-contractors are highly encouraged to report suspected or actual acts of GBV and/or VAC by a fellow worker, whether in the same company or not. Reports must be made in accordance with project's GBV and VAC Allegation Procedures.
- 18. Managers are required to report and act to address suspected or actual acts of GBV and/or VAC as they have a responsibility to uphold company commitments and hold their direct reports responsible.

### **Implementation**

To ensure that the above principles are implemented effectively the company commits to ensuring that:

- 19. All managers sign the project's 'Manager's Code of Conduct' detailing their responsibilities for implementing the company's commitments and enforcing the responsibilities in the 'Individual Code of Conduct'.
- 20. All employees sign the project's 'Individual Code of Conduct' confirming their agreement to comply with ESHS and OHS standards, and not to engage in activities resulting in GBV or VAC.
- 21. Displaying the Company and Individual Codes of Conduct prominently and in clear view at workers' camps, offices, and in in public areas of the workspace. Examples of areas include waiting, rest and lobby areas of sites, canteen areas and health clinics.
- 22. Ensure that posted and distributed copies of the Company and Individual Codes of Conduct are translated into the appropriate language of use in the work site areas as well as for any international staff in their native language.

<sup>10</sup> **Consent** is defined as the informed choice underlying an individual's free and voluntary intention, acceptance or agreement to do something. No consent can be found when such acceptance or agreement is obtained using threats, force or other forms of coercion, abduction, fraud, deception, or misrepresentation. In accordance with the United Nations Convention on the Rights of the Child, the World Bank considers that consent cannot be given by children under the age of 18, even if national legislation of the country into which the Code of Conduct is introduced has a lower age. Mistaken belief regarding the age of the child and consent from the child is not a defense.

- 23. An appropriate person is nominated as the company's 'Focal Point' for addressing GBV and VAC issues, including representing the company on the GBV and VAC Compliance Team (GCCT) which is comprised of representatives from the client, contractor(s), the supervision consultant, and local service provider(s).
- 24. Ensuring that an effective GBV and VAC Action Plan is developed in consultation with the GCCT which includes as a minimum:
  - GBV and VAC Allegation Procedure to report GBV and VAC issues through the project Grievance Redress Mechanism (Section 4.3 Action Plan);
  - ii. **Accountability Measures** to protect confidentiality of all involved (Section 4.4 Action Plan); and,
  - iii. **Response Protocol** applicable to GBV and VAC survivors and perpetrators (Section 4.7 Action Plan).
- 25. That the company effectively implements the agreed final GBV and VAC Action Plan, providing feedback to the GCCT for improvements and updates as appropriate.
- 26. All employees attend an induction training course prior to commencing work on site to ensure they are familiar with the company's commitments to ESHS and OHS standards, and the project's GBV and VAC Codes of Conduct.
- 27. All employees attend a mandatory training course once a month for the duration of the contract starting from the first induction training prior to commencement of work to reinforce the understanding of the project's ESHS and OHS standards and the GBV and VAC Code of Conduct.

I do hereby acknowledge that I have read the foregoing Company Code of Conduct, and on behalf of the company agree to comply with the standards contained therein. I understand my role and responsibilities to support the project's OHS and ESHS standards, and to prevent and respond to GBV and VAC. I understand that any action inconsistent with this Company Code of Conduct or failure to act mandated by this Company Code of Conduct may result in disciplinary action.

Company name:					
Signature:					
Printed Name:					
Title:					
Date:					

### Manager's Code of Conduct

## **Implementing ESHS and OHS Standards**

### **Preventing Gender Based Violence and Violence Against Children**

Managers at all levels have a responsibility to uphold the company's commitment to implementing the ESHS and OHS standards, and preventing and addressing GBV and VAC. This means that managers have an acute responsibility to create and maintain an environment that respects these standards and prevents GBV and VAC. Managers need to support and promote the implementation of the Company Code of Conduct. To that end, managers must adhere to this Manager's Code of Conduct and sign the Individual Code of Conduct. This commits them to supporting the implementation of the CESMP and the OHS Management Plan and developing systems that facilitate the implementation of the GBV and VAC Action Plan. They need to maintain a safe workplace, as well as a GBV-free and VAC-free environment at the workplace and in the local community. These responsibilities include but are not limited to:

## **Implementation**

- 1. To ensure maximum effectiveness of the Company and Individual Codes of Conduct:
  - i. Prominently displaying the Company and Individual Codes of Conduct in clear view at workers' camps, offices, and in public areas of the workspace. Examples of areas include waiting, rest and lobby areas of sites, canteen areas and health clinics.
  - ii. Ensuring all posted and distributed copies of the Company and Individual Codes of Conduct are translated into the appropriate language of use in the work site areas as well as for any international staff in their native language.
- 2. Verbally and in writing explain the Company and Individual Codes of Conduct to all staff.

### 3. Ensure that:

- i. All direct reports sign the 'Individual Code of Conduct', including acknowledgment that they have read and agree with the Code of Conduct.
- ii. Staff lists and signed copies of the Individual Code of Conduct are provided to the OHS Manager, the GCCT, and the client.
- iii. Participate in training and ensure that staff also participate as outlined below.

- iv. Put in place a mechanism for staff to:
  - (a) report concerns on ESHS or OHS compliance; and,
  - (b) confidentially report GBV or VAC incidents through the Grievance Redress Mechanism (GRM)
- v. Staff are encouraged to report suspected or actual ESHS, OHS, GBV or VAC issues, emphasizing the staff's responsibility to the Company and the country hosting their employment, and emphasizing the respect for confidentiality.
- 4. In compliance with applicable laws and to the best of your abilities, prevent perpetrators of sexual exploitation and abuse from being hired, re-hired or deployed. Use background and criminal reference checks for all employees.
- 5. Ensure that when engaging in partnership, sub-contractor, supplier or similar agreements, these agreements:
  - i. Incorporate the ESHS, OHS, GBV and VAC Codes of Conduct as an attachment.
  - ii. Include the appropriate language requiring such contracting entities and individuals, and their employees and volunteers, to comply with the Individual Codes of Conduct.
  - iii. Expressly state that the failure of those entities or individuals, as appropriate, to ensure compliance with the ESHS and OHS standards, take preventive measures against GBV and VAC, to investigate allegations thereof, or to take corrective actions when GBV or VAC has occurred, shall not only constitute grounds for sanctions and penalties in accordance with the Individual Codes of Conduct but also termination of agreements to work on or supply the project.
- 6. Provide support and resources to the GCCT to create and disseminate internal sensitization initiatives through the awareness-raising strategy under the GBV and VAC Action Plan.
- 7. Ensure that any GBV or VAC issue warranting Police action is reported to the Police, the client and the World Bank immediately.
- 8. Report and act according to the response protocol (Section 4.7 Response Protocol) any suspected or actual acts of GBV and/or VAC as managers have a responsibility to uphold company commitments and hold their direct reports responsible.
- 9. Ensure that any major ESHS or OHS incidents are reported to the client and the supervision engineer immediately.

### **Training**

- 10. The managers are responsible to:
  - i. Ensure that the OHS Management Plan is implemented, with suitable training required for all staff, including sub-contractors and suppliers; and,
  - ii. Ensure that staff have a suitable understanding of the CESMP and are trained as appropriate to implement the CESMP requirements.
- 11. All managers are required to attend an induction manager training course prior to commencing work on site to ensure that they are familiar with their roles and responsibilities in upholding the GBV and VAC elements of these Codes of Conduct. This training will be separate from the induction training course required of all employees and will provide managers with the necessary understanding and technical support needed to begin to develop the GBV and VAC Action Plan for addressing GBV and VAC issues.
- 12. Managers are required to attend and assist with the project facilitated monthly training courses for all employees. Managers will be required to introduce the trainings and announce the self-evaluations, including collecting satisfaction surveys to evaluate training experiences and provide advice on improving the effectiveness of training.
- 13. Ensure that time is provided during work hours and that staff prior to commencing work on site attend the mandatory project facilitated induction training on:
  - i. OHS and ESHS; and,
  - ii. GBV and VAC required of all employees.
- 14. During civil works, ensure that staff attend ongoing OHS and ESHS training, as well as the monthly mandatory refresher training course required of all employees to combat increased risk of GBV and VAC.

### Response

- 15. Managers will be required to take appropriate actions to address any ESHS or OHS incidents.
- 16. With regard to GBV and VAC:
  - i. Provide input to the GBV and VAC Allegation Procedures (Section 4.2 Action Plan) and Response Protocol (Section 4.7 Action Plan) developed by the GCCT as part of the final cleared GBV and VAC Action Plan.

- ii. Once adopted by the Company, managers will uphold the Accountability Measures (Section 4.4 Action Plan) set forth in the GBV and VAC Action Plan to maintain the confidentiality of all employees who report or (allegedly) perpetrate incidences of GBV and VAC (unless a breach of confidentiality is required to protect persons or property from serious harm or where required by law).
- iii. If a manager develops concerns or suspicions regarding any form of GBV or VAC by one of his/her direct reports, or by an employee working for another contractor on the same work site, s/he is required to report the case using the GRM.
- iv. Once a sanction has been determined, the relevant manager(s) is/are expected to be personally responsible for ensuring that the measure is effectively enforced, within a maximum timeframe of 14 days from the date on which the decision to sanction was made
- v. If a Manager has a conflict of interest due to personal or familial relationships with the survivor and/or perpetrator, he/she must notify the respective company and the GCCT. The Company will be required to appoint another manager without a conflict of interest to respond to complaints.
- vi. Ensure that any GBV or VAC issue warranting Police action is reported to the Police, the client and the World Bank immediately
- 17. Managers failing to address ESHS or OHS incidents or failing to report or comply with the GBV and VAC provisions may be subject to disciplinary measures, to be determined and enacted by the company's CEO, Managing Director or equivalent highest-ranking manager. Those measures may include:
  - i. Informal warning.
  - ii. Formal warning.
  - iii. Additional Training.
  - iv. Loss of up to one week's salary.
  - v. Suspension of employment (without payment of salary), for a minimum period of 1 month up to a maximum of 6 months.
  - vi. Termination of employment.

18. Ultimately, failure to effectively respond to ESHS, OHS, GBV and VAC cases on the work site by the company's managers or CEO may provide grounds for legal actions by authorities.

I do hereby acknowledge that I have read the foregoing Manager's Code of Conduct, do agree to comply with the standards contained therein and understand my roles and responsibilities to prevent and respond to ESHS, OHS, GBV and VAC requirements. I understand that any action inconsistent with this Manager's Code of Conduct or failure to act mandated by this Manager's Code of Conduct may result in disciplinary action.

Signature:	
Printed Name:	
Title:	
Date:	

#### **Individual Code of Conduct**

## **Implementing ESHS and OHS Standards**

# **Preventing Gender Based Violence and Violence Against Children**

I, \_\_\_\_\_\_, acknowledge that adhering to environmental, social health and safety (ESHS) standards, following the project's occupational health and safety (OHS) requirements, and preventing gender based violence (GBV) and violence against children (VAC) is important.

The company considers that failure to follow ESHS and OHS standards, or to partake in GBV or VAC activities—be it on the work site, the work site surroundings, at workers' camps, or the surrounding communities—constitute acts of gross misconduct and are therefore grounds for sanctions, penalties or potential termination of employment. Prosecution by the Police of those who commit GBV or VAC may be pursued if appropriate.

### I agree that while working on the project I will:

- 1. Attend and actively partake in training courses related to ESHS, OHS, HIV/AIDS, GBV and VAC as requested by my employer.
- 2. Will always wear my personal protective equipment (PPE) when at the work site or engaged in project related activities.
- 3. Take all practical steps to implement the contractor's environmental and social management plan (CESMP).
- 4. Implement the OHS Management Plan.
- 5. Adhere to a zero-alcohol policy during work activities, and refrain from the use of narcotics or other substances which can impair faculties at all times.
- 6. Consent to Police background check.
- 7. Treat women, children (persons under the age of 18), and men with respect regardless of race, color, language, religion, political or other opinion, national, ethnic or social origin, property, disability, birth or other status.
- 8. Not use language or behavior towards women, children or men that is inappropriate, harassing, abusive, sexually provocative, demeaning or culturally inappropriate.
- 9. Not engage in sexual harassment—for instance, making unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct, of a sexual nature, including subtle acts of such behavior (e.g. looking somebody up and down; kissing,

- howling or smacking sounds; hanging around somebody; whistling and catcalls; giving personal gifts; making comments about somebody's sex life; etc.).
- 10. Not engage in sexual favors—for instance, making promises or favorable treatment dependent on sexual acts—or other forms of humiliating, degrading or exploitative behavior.
- 11. Not participate in sexual contact or activity with children—including grooming, or contact through digital media. Mistaken belief regarding the age of a child is not a defense. Consent from the child is also not a defense or excuse.
- 12. Unless there is the full consent<sup>11</sup> by all parties involved, I will not have sexual interactions with members of the surrounding communities. This includes relationships involving the withholding or promise of actual provision of benefit (monetary or non-monetary) to community members in exchange for sex—such sexual activity is considered "non-consensual" within the scope of this Code.
- 13. Consider reporting through the GRM or to my manager any suspected or actual GBV or VAC by a fellow worker, whether employed by my company or not, or any breaches of this Code of Conduct.

### With regard to children under the age of 18:

- 14. Wherever possible, ensure that another adult is present when working in the proximity of children.
- 15. Not invite unaccompanied children unrelated to my family into my home, unless they are at immediate risk of injury or in physical danger.
- 16. Not use any computers, mobile phones, video and digital cameras or any other medium to exploit or harass children or to access child pornography (see also "Use of children's images for work related purposes" below).
- 17. Refrain from physical punishment or discipline of children.
- 18. Refrain from hiring children for domestic or other labor below the minimum age of 14 unless national law specifies a higher age, or which places them at significant risk of injury.

<sup>11</sup> **Consent** is defined as the informed choice underlying an individual's free and voluntary intention, acceptance or agreement to do something. No consent can be found when such acceptance or agreement is obtained using threats, force or other forms of coercion, abduction, fraud, deception, or misrepresentation. In accordance with the United Nations Convention on the Rights of the Child, the World Bank considers that consent cannot be given by children under the age of 18, even if national legislation of the country into which the Code of Conduct is introduced has a lower age. Mistaken belief regarding the age of the child and consent from the child is not a defense.

- 19. Comply with all relevant local legislation, including labor laws in relation to child labor and World Bank's safeguard policies on child labor and minimum age.
- 20. Take appropriate caution when photographing or filming children (See Annex 2 for details).

## Use of children's images for work related purposes

When photographing or filming a child for work related purposes, I must:

- 21. Before photographing or filming a child, assess and endeavor to comply with local traditions or restrictions for reproducing personal images.
- 22. Before photographing or filming a child, obtain informed consent from the child and a parent or guardian of the child. As part of this I must explain how the photograph or film will be used.
- 23. Ensure photographs, films, videos and DVDs present children in a dignified and respectful manner and not in a vulnerable or submissive manner. Children should be adequately clothed and not in poses that could be seen as sexually suggestive.
- 24. Ensure images are honest representations of the context and the facts.
- 25. Ensure file labels do not reveal identifying information about a child when sending images electronically.

#### Sanctions

I understand that if I breach this Individual Code of Conduct, my employer will take disciplinary action which could include:

- 1. Informal warning.
- 2. Formal warning.
- 3. Additional Training.
- 4. Loss of up to one week's salary.
- 5. Suspension of employment (without payment of salary), for a minimum period of 1 month up to a maximum of 6 months.
- 6. Termination of employment.
- 7. Report to the Police if warranted.

I understand that it is my responsibility to ensure that the environmental, social, health and safety standards are met. That I will adhere to the occupational health and safety management plan. That I will avoid actions or behaviors that could be construed as GBV or VAC. Any such actions will be a breach of this Individual Code of Conduct.

I do hereby acknowledge that I have read the foregoing Individual Code of Conduct, do agree to comply with the standards contained therein and understand my roles and responsibilities to prevent and respond to ESHS, OHS, GBV and VAC issues. I understand that any action inconsistent with this Individual Code of Conduct or failure to act mandated by this Individual Code of Conduct may result in disciplinary action and may affect my ongoing employment.

Signature:		 
Printed Name:		
Title:		
Date:		