

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP) FOR

PROPOSED BUTULA AQUACULTURE PARK PROJECT IN SIUNGA VILLAGE, BUTULA SUB COUNTY, BUSIA COUNTY.



PROPONENT SIUNGA COMMUNITY PROJECT MANAGEMENT COMMITEE P.O BOX 392-50400 BUSIA

FEBRUARY 2022

CERTIFICATION

ESIA/EA EXPERT

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BUSIA COUNTY		

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LIST OF ACRONYMS

CGB- County Government of Busia CIDP- County Integrated Development Plan EA -Environmental Assessment EIA -Environmental Impact Assessment EMCA - Environmental Management Act, Cap 387 EMP- Environmental Management Plan ESIA -Environmental and Social Impact Assessment ESMS -Environmental and Social Management System ESSF -Environmental and Social Screening Form **IP** -Indigenous People KCSAP- Kenya Climate Smart Agriculture Programme NCA- National Construction Authority NEC -National Environment Council NEMA- National Environmental Management Authority **OP-** Operational Procedure OS -Operational Safeguards OSHA- Occupational Safety and Health Authority PBO- Project Based Programs RAP -Resettlement Action Plan PIU -Project Implementation Unit ToR -Terms of Reference UN -United Nations WB- World Bank WIBA- Work Injury Benefit Authority WRA- Water Resource Authority

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EXECUTIVE SUMMARY

This Environmental and Social Management Plan (ESMP) presents the outcome of an Environmental and Social Impact Assessment for Butula Aquaculture Park Project proposed by Siunga Project Management Committee. The park will be located in Siunga Village, Marachi East Ward, Butula Sub County and will be funded by World Bank through KCSAP, County Government of Busia and the beneficiaries. This project being a World Bank funded project, it has triggered OP 4.01 – Environmental Assessment. The project has been assessed as a low impact project and hence requiring only an ESMP. The Direct beneficiaries are 257 (Male 175, Female 82). Among the beneficiaries are VMGs (Male: 72 Female: 121).

The purpose of this project is to increase agricultural productivity, improve incomes and diversify income and nutrition. This will be through increasing the value of aquaculture production from the present farm gate average value of Kshs 200 million to at least Kshs 1 Billion annually by 2022; increasing the volume of aquaculture production from 1,080 tons to 4,300 tons annually by 2022; improving fish production by construction of 70 fish ponds in the sub county

Potential beneficial and adverse environmental and social impacts associated with the proposed project were identified and discussed. The main positive contribution of the proposed is promotion of fish production. Other benefits include: food security, creation of employment opportunities, revenue to the governments, increased demand for raw materials, improved aesthetics, optimal use of land and development in the area. A summary of these potential negative environmental and social impacts and a brief description of their mitigation measures is provided in the ESMP.

The total project cost is estimated at Kshs. 45,000,000/=. Total costs for implementing the ESMP is Kenya shillings 2,613,000.00.

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The ESMMP will be shared with the contractor selected for implementation.

CHAPTER ONE INTRODUCTION

1.1 Background

The project entails construction of fish ponds, fencing and auxiliary facilities,

The objectives of the project are to

- Increase the value of aquaculture production from the present farm gate average value of Kshs 200 million to at least Kshs 1 Billion annually by 2022.
- Increase the volume of aquaculture production from 1,080 tons to 4,300 tons annually by 2022.
- Improve fish production by construction of 70 fish ponds in the sub county
- Improve livelihood of the locals more money in their pockets and improved diet
- Enable household diversification from normal crop production to fish production.
- Create self-employment opportunities

The Department of Agriculture through the directorate of Fisheries, in Busia County through the Kenya Climate Smart Agriculture (KCSAP) seeks to enhance food production in the county through proper methods that in turn enhance environmental protection and conservation.

1.2 Justification for the Aquaculture Park project

The proposed project contributes to the KCSAP project development objectives by increasing the production per unit of land and enhancing the capacity of the farmers to produce adequate and marketable fish produce throughout the year through fish farming. The project is a source of livelihood to about 257 farmers (175 males, 82female). The project offers employment opportunities to members of the community during construction and operation phases of the project implementation. Furthermore, the county government has set aside 0.9 hectares of land for this project.

1.2 Justification for Conducting ESMP

It is a requirement under the WB **OP/BP 4.01:** Environmental Assessment for such projects of lowrisk magnitude to conduct an ESMP in order to mitigate unforeseen impacts. The ESMP was recommended by the County Director of Environment (**CDE**) after the screening exercise conducted on 15/02/2022.

1.3 Location of the project

The proposed project site is located within the Butula sub County siunga village Village in Busia County. The project site is located in public land under the custody of the County Government of Busia. Land has been acquired from private owners by the County Government for the proposed development (*Annex 2*). Its located on GPS Coordinates: **Latitude**: **0.339919** and **Longitude**: 34.336978

Commented [PM1]: There is need to ascertain the status of land ownership. Should be mentioned here and backed up by annexes.



Figure 2.1: Project location

Source: Google Earth

1.4 Project Cost

The aquaculture project involves exaction of 70 ponds fencing of the project site with chain-link wire, installation of CCTV stocking of the ponds with fingerlings the construction of a small office. All these is at a cost of Ksh. 45,000,000. Total costs for implementing the ESMP is Kenya shillings 2,613,000.00.

CHAPTER TWO: POTENTIAL IMPACTS AND MITIGATION MEASURES

2.1 Introduction

The environmental and social baseline information collected and the project characteristics discussed form the basis for impact identification and evaluation. The proposed project will bring about both positive and negative impacts on the environment and the community at large. The impacts that are expected to arise from the proposed project have been identified and discussed in regard to all phases of the proposed project cycle; construction, operational and decommissioning. The negative impacts will be minimal and will only last for the time of construction phase, with a few lasting for a long time during the operation phase.

2.2 Impacts during the construction phase

2.2.1Anticipated positive impacts

The anticipated positive impacts during the construction phase include the following:

2.2.1.1Creation of employment opportunities

It is estimated that part of the project cost will be or has been reflected in employment of professional services of environmental experts, land surveyors, aqua culturists, engineers and skilled and unskilled labour for about 20 - 30 people. Indirect employment will be created where suppliers of foodstuffs and other goods and products will gain income by supplying their services and products to the construction site. The community members will provide labour for site clearing, digging of the fishponds, loading and offloading of construction materials provision of security at the site among others.

2.2.2 Anticipated negative environmental impacts

The anticipated negative impacts during the construction phase include the following:

2.2.2.1 Impacts on flora and fauna

The impacts on vegetation and animals will be born from removal and disturbance of vegetation, movement of people and machinery, excavation and compaction. Most of these impacts are short-lived and localized.

Mitigation measures: Vegetation removal will be restricted to the actual project area to avoid spillover effects to neighboring areas. Encourage re-vegetation.

a) Sensitize the community on the dangers of farming in the riparian areas.

b) Fence the project site/rehabilitate the existing fence to prevent interactions with the external environment including the riparian area.

2.2.2.2: Impacts on soil and water resources

Ponds require deep excavation occasioning removal of top soils. The excavation works will expose the soil resulting to soil erosion and siltation of the river. They will also result into loose soil which is prone to both water and wind erosion. Eroded soil silts water bodies and can flood downstream areas.

Mitigation measures

- a) Construct drainage works for storm in adherence to the Public Works specifications.
- b) Rip off compacted areas in areas where compaction will have adversely affected after construction to allow aeration of soil and ease infiltration of water into the soil.

2.2.2.3 Solid wastes

During the construction phase, there will be deep and minor excavations at the site. Construction wastes including excess excavated soil unusable pieces of construction materials and removed plant material are the main sources of solid wastes.

Mitigation measures

- a) Utilize the excavated soil at the site to adjust levels.
- b) Excess soil could be used in filling road potholes among many other uses.

2.2.3 Social and health impacts

2.2.3.1Gender based violence and sexual harassment (GBV/SH)

This impact is triggered during project construction phase when the contractor(s) fail to comply with the following provisions:

- a) Gender Inclusivity requirements in hiring of workers and entire project management as required by Gender Policy 2011 and 2/3 gender rule; and
- b) Failure to protect human risk areas associated with, disadvantaged groups, interfering with participation rights, and interfering with labour rights.

The proposed Mitigation Measures of Human Rights and Gender Requirements are:

a) Ensure clear human resources policy against sexual harassment that is aligned with national law.

- b) Integrate provisions related to sexual harassment in the employee Code of Conduct.
- c) Ensure appointed human resources personnel to manage reports of sexual harassment according to policy.
- d) The contractor(s) shall require employees, sub-contractors, sub-consultants, and any personnel thereof engaged in construction works to individually sign and comply with a Code of Conduct with specific provisions on protection from sexual exploitation and abuse.
- e) The contractor shall develop specific plan for mitigating these known risks, e.g. sensitization around gender-equitable approaches to compensation and employment.
- f) The contractor will ensure adequate referral mechanisms are in place if a case of GBV at the community level is reported related to project implementation.

2.2.3.2 Risk of Increased incidences of HIV/AIDS and STIs

The influx of people may bring communicable diseases to the project area, including sexually transmitted infections (STIs), or the incoming workers may be exposed to diseases to which they have low resistance.

Proposed mitigation measure for this are:

a) Contractor(s) to sensitize workers and community members on HIV/AIDS awareness and other communicable diseases to be instituted and implemented as part of the contractor's Health and Safety Management Plan to be enforced by the Supervising Engineer. This will involve periodic HIV/AIDS and other communicable diseases Awareness Workshops for Contractor's Staff.

2.2.3.3 Risks of increased spread of COVID-19 at work sites

The World Health Organization declared COVID-19 a global pandemic after assessing both its alarming levels of spread and severity, and the alarming levels of inaction. Consequentially, World Health Organization (WHO) issued various guidance and measures to prevent the spread of the virus. The measures have been adopted worldwide.

The proposed Mitigation Measures against spread of COVID-19 amongst workers are:

- a) The contractor(s) shall put in place measures to prevent and manage the spread of the COVID-19.
- b) The contractor(s) will develop a SOPs for managing the spread of COVID-19 during project execution and submit them for the approval of the Supervision Engineer and the Client before mobilization. The SOPs shall be in line with the World Bank guidance on COVID-19, Ministry of Health Directives and site-specific project conditions.
- c) Mandatory provision and use of appropriate Personal Protective Equipment (PPE) shall be required for all project personnel.

 d) The project shall put in place means to support rapid testing of suspected workers for COVID-19.

2.2.3.4 Child abuse

Children within the project area will be exposed to risks associated with interaction between them and project workers. This includes child labour and sexual abuse which coherently leads to teenage pregnancies and exposure to communicable diseases such as HIV/AIDS.

Mitigation measures

- a) The contractor will develop and implement a Children Protection Strategy that will ensure minors are protected against negative impacts associated with the project.
- b) All staff must sign, committing themselves towards protecting children, a contract which clearly defines what is and is not acceptable behaviour.
 - 2.3 Impacts during the operation phase

2.3.1Anticipated positive impacts

The anticipated positive impacts during the operation phase include the following:

2.3.1.1Creation of an integrated fish farming project

The integrated fish farming project has the component of a fish hatchery, a fish feeds formulation unit and fishponds. Therefore, the project will be a major source of fingerlings, fish feeds and fish in the area. These will be sold both locally and in other regions in the county and outside the county. The project will provide fish for sale across all the markets, this will boost the farmers' livelihood and improve their social well-being and development in the area. The access to fish will improve nutrition and boost food security in the area. Farmer will also be sure of market for their fish products and even gain more knowledge on climate-smart agriculture.

2.3.1.2 Employment generation

People will be employed to work at the site including security officers, cleaners, managers, marketing persons, hatchery operators, fish feeds formulation personnel among others. These people will earn income and use it to improve their living standards.

Enhancement measures

a) The Proponent will consider the area resident for most of the job opportunities at the site.

2.3.1.3 Capacity building of the community

The long term benefits of the project will include capacity building targeting local communities, youth empowerment, management of natural resources, fish feeding, value addition and fish processing and entrepreneurial skills.

2.3.2 Anticipated negative environmental impacts

The anticipated negative impacts during the operation phase include the following:

2.3.2.1 Environmental pollution

Fish feeds, hormones and other chemicals used for treatment of fish may contaminate the natural water systems if water from the ponds is drained and released into the natural water systems. The use of fish feeds and excretes in hatcheries and cages will be relatively high and may result in contaminations for the rest of the water systems.

Mitigation measures

- a) Treat such water by providing for and ensuring adequate time for biodegradation of the chemicals used by allowing the water to settle for a minimum of 21 days before being discharged into the environment.
- b) Minimize regular contacts between such waters and the natural water systems.
- c) Ensure frequent water quality monitoring to determine the level of pollution and contamination.

2.3.2.2 Water usage

During operation, water will be used for fish farming, cleaning and washing of the fish, and in preparation of meals. The increased water-use may lead to acute shortages and become a source of conflicts with other members of the community.

Mitigation measures

- a) Provide polite notices to use water wisely at water end-user points.
- b) Regularly maintain plumbing fixtures and water piping to avoid losses due to leakages.

2.3.2.3 Solid wastes

During operation, solid wastes will include food waste and waste packaging material. These may get into the fish feed and affect the fish.

Mitigation measures

- a) Provide bins for separate collection of wastes into appropriate sorts such as recyclable and non-recyclable, general wastes and infectious wastes e.g. used masks and label the collection bins appropriately.
- b) Where possible material considered as waste may be re-used or recycled or be given to who may consider them useful for others uses.
- c) Regularly collect solid wastes and dispose them to prevent accumulation at collection areas.

2.3.2.4 Contamination of fishpond water

Contamination of water in the ponds might result from the run-off from cultivation activities and destruction of spring sources.

Mitigation measures

- a) Protection and conservation of spring sources and vulnerable habitats.
- b) Creation of buffer zones at the spring sources as well as at the pond sites.
- c) Soil and water conservation practices such as afforestation, agro-forestry programmes, terracing, grass planting etc. to minimize run-offs into the fishponds.
- d) Protection of the canals/channels that bring water from the springs e.g. by buffering them to prevent entry of contaminants.

2.3.3 Anticipated health and social impacts

2.3.3.1Health impact - creation of vector and rodents breeding grounds

If the project commences with no well-designed storm water drains, the rain water may end up stagnating and hence creating conducive breeding areas for mosquitoes and other water based vectors leading to transmission of human diseases like malaria and cholera. The ponds themselves could become a potential breeding ground for mosquitoes if the circulation of water is not regular. Diseases such as malaria and bilharzia may be common place.

Mitigation measures

- a) All hollow areas at the site should be filled with soil to prevent stagnation of water.
- b) The inlet and outlet pipes to the ponds should be properly fixed to ensure regular flow of water which will prevent water from staying in the ponds for a long time.
- c) Bushes and long grass around the fishponds will be cleared to prevent breeding of mosquitoes.

2.3.3.2 Social impact – risks of animals and people drowning in the ponds

Animals and people moving around the ponds could easily fall into the ponds and drown. The entire area will be fenced and will be provided with a lockable gate. This will prevent entry of animals, children and unauthorized people into the fishpond area. Fishponds that will be established in individual farms by the CBO members may suffer theft or become hazardous areas where domestic animals and children may drown.

Mitigation measures

- a) The pond areas will be fenced and will be provided with a lockable gate to keep away animals, unauthorized people and children.
- b) Put warning signs at the fishponds to alert children and other people of the dangers associated with the fishponds.
- c) Grass around the ponds shall always be kept short so that it does not attract grazing animals.
- d) Carry out public awareness and education as a means against accidental deaths by drowning.

2.3.3.3 Gender based violence and sexual harassment (GBV/SH)

This impact is triggered during project operation phase when the Proponent or project management fail to comply with the following provisions:

- a) Gender Inclusivity requirements in hiring of workers and entire project management as required by Gender Policy 2011 and 2/3 gender rule; and
- b) Failure to protect human risk areas associated with, disadvantaged groups, interfering with participation rights, and interfering with labour rights.

The proposed Mitigation Measures of Human Rights and Gender Requirements are:

- a) Ensure clear human resources policy against sexual harassment that is aligned with national law.
- b) Integrate provisions related to sexual harassment in the employee Code of Conduct.
- c) Ensure appointed human resources personnel to manage reports of sexual harassment according to policy.

2.3.3.4 Sexual Exploitation and Abuse by project workers against community members

This impact refers to sexual exploitation and abuse (SEA) committed by project staff against communities and represents a risk at all stages of the project, especially when employees and community members are not clear about prohibitions against SEA in the project.

The proposed mitigation measures to risks of SEA include:

a) Develop and implement a SEA action plan with an Accountability and Response Framework as part of the C-ESMP. The SEA action plan will follow guidance on the World Bank's Good Practice Note for Addressing Gender-based Violence in Investment Project Financing involving Major Civil Works (Sept 2018).

2.3.3.5 Risk of Increased incidences of HIV/AIDS and STIs

The influx of people may bring communicable diseases to the project area, including sexually transmitted infections (STIs), or the incoming workers may be exposed to diseases to which they have low resistance. This can result in an additional burden on local health facilities and resources. Local health and rescue facilities may also be overwhelmed and/or ill-equipped to address the industrial accidents that can occur in a large construction site.

Proposed mitigation measure for this are:

- a) Sensitize workers and community members on HIV/AIDS awareness and other communicable diseases to be instituted and implemented as part of the contractor's Health and Safety Management Plan to be enforced by the Supervising Engineer. This will involve periodic HIV/AIDS and other communicable diseases Awareness Workshops for Contractor's Staff.
- b) Controlled access to private offices and working places by outsiders.

2.3.3.6 Child abuse

Children within the project area will be exposed to risks associated with interaction between them and project staff. This includes child labour and sexual abuse which coherently leads to teenage pregnancies and exposure to communicable diseases such as HIV/AIDS.

Mitigation measures

- a) The Proponent will develop and implement a Children Protection Strategy that will ensure minors are protected against negative impacts associated with the project.
- b) Children under the age of 18 years will not be hired at the site as provided by Child Rights Act (Amendment Bill) 2014.

2.3.3.7 Risk of increased spread of COVID-19

During project operation, there will be a lot of interactions among different people at the site. The potential for the spread of any infectious disease like COVID-19 is high.

The proposed Mitigation Measures against spread of COVID-19:

- a) The Proponent shall put in place measures to prevent and manage the spread of the COVID-19.
- b) The Proponent will develop a SOPs for managing the spread of COVID-19 during project operation. The SOPs shall be in line with the World Bank guidance on COVID-19, Ministry of Health Directives and site-specific project conditions.

2.4 Impacts during the decommissioning phase

It is expected that the proposed development will be used for many years to come. However, decommissioning could be in the form of permanent withdrawal from the site or change of use of the site. Demolition of structures is the most critical part of decommissioning as it is associated with a number of impacts that include:

- a) Significant deterioration of the environment within the project site and the surrounding areas through noise and vibrations.
- b) Large quantities of dust and exhaust emissions from the machinery and equipment used in demolition.

Mitigation measures

- a) The following shall be adhered to during the decommissioning process:
 - i) Supervise all decommissioning works at the site especially any demolition of structures.
- ii) Keep all passages clear at all times.

CHAPTER THREE ENVIRONMENTAL AND SOCIAL MANAGEMENT AND MAONITORING PLAN

Table 4.1: Proposed environmental and social Management and monitoring plan for the proposed project

Parameter to be monitored	Where to be monitored	How to monitor	Frequency of monitoring	Indicators of performance	Responsibility for monitoring	Estimated Cost (KES)
Construction and	operation phase					
Technical specifications	N/A	Review and appraisal by a panel of experts	Before commencement of construction	Detailed design that is easy to interpret	CPCU and Fisheries dept.	20,000
Flora and fauna	Site and riparian area	Survey of plant cover	Before and after construction	 Percentage of plant cover State of riparian area	Contractor	_
Solid wastes	At the site	Assessment of solid wastes	Weekly	 Amounts and categories of solid wastes at the site Reported cases of nuisance as a result of unmanaged solid wastes Number of waste bins installed Number of workers/beneficiaries sensitized on waste management 	Contractor	30,000
GBV/SH	Within and outside the site	Audit to confirm compliance with policies against sexual harassment and Code of Conduct	Monthly	• Number of cases of GBV/SH	Contractor	50,000

Parameter to be monitored	Where to be monitored	How to monitor	Frequency of monitoring	Indicators of performance	Responsibility for monitoring	Estimated Cost (KES)
Fire	At and near work site	Fire risk assessment	Weekly	 Number of flammable materials at the site Number and types of fire suppression and management equipment/measures 	Contractor	50,000
HIV/AIDS and STIs	Within and outside the site	Ensure awareness workshops for project staff and workers on HIV/AIDS and STIs and other communicable diseases are carried out	Monthly	 Rate at which dispensed condoms are used up/picked Number of sensitization meetings on HIV/AIDS and STIs 	Contractor	_
Child abuse and/or child labour	Within and outside the site	Audit to confirm compliance with child protection measures outlined in the project documents	Monthly	Number of cases of child abuse	Contractor	50,000

Parameter to be monitored	Where to be monitored	How to monitor	Frequency of monitoring	Indicators of performance	Responsibility for monitoring	Estimated Cost (KES)
Sexual Exploitation and Abuse (SEA) by project workers against community members	Within and outside the site	Audit to confirm compliance with SEA Action Plan	Monthly	Number of cases of SEA	Contractor	50,000
Risk of spread of COVID-19	Within and outside the site	Audit to confirm compliance with Government of Kenya directives for prevention of COVID-19	Weekly	Reported cases of COVID-19 at the site	Contractor	50,000
Incidents and accidents	At the site	Assessment to ensure compliance with occupational health and safety management	Weekly	Number of incidents and accidents at the site	Contractor	50,000
Sanitary conveniences	At the site	Assessment to ensure presence of sanitary facilities	Before commencement of construction	Number and state of sanitary facilities	Contractor	_
Exhaust fumes and dust	At work site	Inspection	During construction	Reported incidences of air pollution	Contractor	20,000

Parameter to be monitored	Where to be monitored	How to monitor	Frequency of monitoring	Indicators of performance	Responsibility for monitoring	Estimated Cost (KES)
Protective equipment	At work site	Inspection	Unannounced inspections during work	 Number of PPEs procured Number or proportion of workers with requisite PPEs 	Contractor	5,000
Risks of animals and people drowning in the ponds	At the site	Observations	Daily	Number of reported cases of drowning in the fishponds	Fisheries dept and community	_
Sediment disposal	Riparian area	Observation	Every week especially after stormy days	Volumes of silt deposits at the streams	Fisheries dept and community	5,000
HIV/AIDS and STIs	Within and outside the site	Ensure awareness workshops for project staff and workers on HIV/AIDS and STIs and other communicable diseases are carried out	Monthly	 Rate at which dispensed condoms are used up/picked Number of sensitization meetings on HIV/AIDS and STIs 	Fisheries dept and community	_
Child abuse and/or child labour	Within and outside the site	Audit to confirm compliance with child protection measures outlined in the project documents	Monthly	Number of cases of child abuse	social services Fisheries dept and community	50,000

Parameter to be monitored	Where to be monitored	How to monitor	Frequency of monitoring	Indicators of performance	Responsibility for monitoring	Estimated Cost (KES)
Sexual Exploitation and Abuse (SEA) by project workers against community members	Within and outside the site	Audit to confirm compliance with SEA Action Plan	Monthly	Number of cases of SEA	Health dept. Fisheries dept and community	50,000
Risk of spread of COVID-19	Within and outside the site	Audit to confirm compliance with Government of Kenya directives for prevention of COVID-19	Weekly	Reported cases of COVID-19 at the site	Fisheries dept and community	50,000
Incidents and accidents	At the site	Assessment to ensure compliance with occupational health and safety management	Weekly	Number of incidents and accidents at the site	Dept of fisheries and community	50,000

CHAPTER FOUR: CONCLUSION

4.1Conclusion

The proposed development will have numerous positive impacts as has been outlined in this report. The anticipated positive impacts of the proposed project include creation of employment opportunities; demand for locally available construction materials; improved environmental conditions through agroforestry activities; improved infrastructure through development of foot paths. The anticipated negative impacts of the proposed project include clearance of flora and interference with fauna; encroachment into riparian areas; soil compaction and increased run-off and associated siltation; solid wastes; increased traffic flow; death, predation and theft of fish and excessive fertilization of fishponds; creation of vector and rodents breeding grounds; risks of animals and people drowning in the ponds; contamination of fishpond water and environmental pollution; gender based violence and sexual harassment (GBV/SH); sexual exploitation and abuse by project workers against community members; risk of Increased incidences of HIV/AIDS and STIs; grievances; child abuse; risk of increased spread of COVID-19 at work sites; and risk of Spread of COVID-19 amongst community members during consultations. The negative environmental and social impacts that will result from establishment of the project will be mitigated with the options provided for in this report. The report concludes that if all the suggested mitigation measures and the above recommendations as indicated in the proposed environmental and social management and monitoring plans are implemented, then the proposed project will not adversely impact on the environment. It is also clear that the Proponent has actively involved the key neighbourhood stakeholders and these stakeholders did not object to the implementation of the development. The project has sufficient public support.

REFERENCES

- Kenya gazette supplement Acts 2000, Environmental Management and Coordination Act Number 8 of 1999. Government printer, Nairobi
- 2. Kenya gazette supplement Acts Land Planning Act (Cap. 303) government printer, Nairobi
- Kenya gazette supplement Acts County government Act, 2012 ,government printer, Nairobi
- 4. Kenya gazette supplement Acts Penal Code Act (Cap. 63) government printer, Nairobi
- 5. Kenya gazette supplement Acts Physical Planning Act, 1999 government printer, Nairobi
- 6. Kenya gazette supplement Acts Public Health Act (Cap. 242) government printer, Nairobi
- Kenya gazette supplement number 56. Environmental Impact Assessment and Audit Regulations 2003. Government printer, Nairobi
- 8. Kenya gazette supplement Acts Water Act, 2016, Government Printers, Nairobi
- Kenya gazette supplement number 69, Environmental Management and Coordination (Waste management) Regulations, 2006, Government printer, Nairobi
- Environmental Management and Coordination (Noise and Excessive Vibration Pollution) (Control) Regulations, 2009, government printer, Nairobi
- 11. Busia County Integrated Development Plan 2

ANNEXES

ANNEX 1: ESS SCREENING CHECKLIST

Annex 12A: Environmental and Social screening Check list ESM Sub-projects Screening Checklist (Prototype) (Sub-projects screening process by benefitting communities/Agencies) Section A: Background information Name of County Basic Name of CPCU Researcher, Sansel Onliso Name of CPCU Researcher, Sansel Onliso Sub-project location, Studg a. Bully fr. Sub-found-Name of CBO/Institution, Sung a. PML Contact Person, Swart Study, A. A. aucustofe, Park 12123 F. Sub-project name. Title, Ponds, I. A. a uncubster, Park Study a Estimated cost (Kabs.). A. Study, CAB uncubster, Park Study a Estimated cost (Kabs.). A. Study, CAB uncubster, Park Study a Estimated cost (Kabs.). A. Study, CAB uncubster, Park Study a Estimated cost (Kabs.). A. Study, CAB uncubster, Park Study a Estimated cost (Kabs.). A. Study, CAB uncubster, Park Study a Estimate Size of land area available for the sub-project. A. Actes Objectives of the sub project. The form of the sub-project of the sub-project of the sub-torized Farmer Total Conductors Activities/enterprises undertaken, Taka Per ds Stong of Matricel Certery How was the sub-project chosen? Carling of Performinen Expected sub project duration: 6 Number Section B: Environmental Issues Section of sectors of sectors of the sub-project: Will the sub-project: Create a risk of increased soil erosion? Create a risk of increasing any other soil degradation soil degradation? Create a risk of increasing any other soil degradation soil degradation? Yes No V 6 1 Divert the water resource from its natural course/location? Cause pollution of aquatic ecosystems by sedimentation and agro-band of the other state. 1 chemicals, oil spillage, effluents, etc.? Introduce exotic plants or animals? Involve drainage of wetlands or other permanently flooded areas? Cause poor water drainage and increase the risk of water-related diseases such as malaria? 1 measure such as mataria? Reduce the quantity of water for the downstream users? Result in the lowering of groundwater level or depletion of groundwater? Create waste that could adversely affect local soils, vegetation, rivers and streams or groundwater? Reduce various types of livestock production? Affect any watershel? Focus on Biomass/Bio-fuel energy generation? 10 If the answers to any of the above is 'yes', please include an EMP with sub-project application. Section C: Socio-economic issues

Will the sub-project:	Yes.	No
Displace people from their current settlement?		1
Interfere with the normal health and safety of the worker/employee?		1
Reduce the employment opportunities for the surrounding communities?		1
Reduce settlement (no further area allocated to settlements)?		1
Reduce income for the local communities?		1
Increase insecurity due to introduction of the project?	1	
Increase exposure of the community to HIV/AIDS?	2	
Induce conflict?	1	1
Have machinery and/or equipment installed for value addition?		1
Introduce new practices and habits?		1
Lead to child delinquency (school drop-outs, child abuse, child labour, etc.?		1
Lead to gender disparity?		1
Lead to poor diets?	1	1
Lead to social evils (drug abuse, excessive alcohol consumption, crime, etc.)?	1	1000

Section D: Natural Habitats

Will the sub-project:	YES	NO
Be located within or near environmentally sensitive areas (e.g. intact natural forests, mangroves, wetlands) or threatened species?		1
Adversely affect environmentally sensitive areas or critical habitats - wetlands, woodlots, natural forests, rivers, etc.)?		1
Affect the indigenous biodiversity (Flora and fauna)?		1
Cause any loss or degradation of any natural habitats, either directly (through project works) or indirectly?		1
Affect the aesthetic quality of the landscape?		1
Reduce people's access to the pasture, water, public services or other resources that they depend on?		2
Increase human-wildlife conflicts?		1
Agrochemical use		
Will the micro-project:		
Involve the use of pesticides or other agricultural chemicals, or increase existing use?		1
Cause contamination of watercourses by chemicals and pesticides?		1
Cause contamination of soil by agrochemicals and pesticides?		1
Experience effluent and/or emissions discharge?	-	1
Export produce? Involve annual inspections of the producers and unannounced inspections?		~
Require scheduled chemical applications?		1

Require chemical application even to areas distant away from the focus?	1
Require chemical application to be done by vulnerable group (pregnant mothers, chemically allergic persons, elderly, etc.)?	1
Use irrigation system in its implementation?	1

If the answers to any of the above is 'yes', please include an EMP with sub-project application.

Will the sub-project:	YES	NO
Involve the use of pesticides or other agricultural chemicals or increase existing use?		1
Cause contamination of watercauses by chemicals and pesticides?		1
Cause contamination of soil by agrochemicals and pesticides?		1
Experience effluent and/or emission discharge?		15
Export produce? Involve annual inspections of the producers and unannounced inspections?		1
Require scheduled chemicals applications?		1
Require chemicals application even to areas distant away from the focus?		11
Require chemicals application to be done by vulnerable group (pregnant mothers, chemically allergic persons, elderly, etc		1

Section F: Vulnerable and Marginalized Groups meeting requirements for OP 4.10 Are there: Yes NO

People who meet requirements for OP 4.10 living within the boundaries of, or near the project?	1	
Members of these VMGs in the area who could benefit from the project?	1	
WMCs liveliheads to be effected by the exh project?	1	

VMGs livelihoods to be affected by the sub project?

If the answer to any of the above is 'yes', please consult the VMGF that has been prepared
for the project.

Section G: Land Acquisition and Access to Resources

Will the sub-project:	Yes	No	
Require that land (public or private) be acquired (temporarily or permanently) for its development?	1		
Use land that is currently occupied or regularly used for productive purposes (e.g. gardening, farming, pasture, fishing locations, forests)	~		
Displace individuals, families or businesses?		1.	ī
Result in temporary or permanent loss of crops, fruit trees and pasture land?		1	
Adversely affect small communal cultural property such as funeral and burial sites, or sacred groves?		1	
Result in involuntary restriction of access by people to legally designated parks and protected areas?		1	
Be on monoculture cropping?		12	1

If the answer to any of the above is 'yes', please consult the mitigation measures in the ESMF, and if needed prepare a (Resettlement Action Plan) RAP. Section H: Proposed action

(i) Summarize the above:	(ii) Guidance
All the above answers are 'No' There is at least one 'Yes'	 If all the above answers are 'No', there is no need for further action; If there is at least one 'Yes', please describe your recommended course of action (see below).

(iii) Recommended Course of Action

if there is at a	cast one 'Yes	, which course	of action do yo	a recommend?
fana	ang	ponds	hand	plus a sr
No me	Jactions	linaro	meet	1 Ingood
ESMP	57	trenser	re rece	The start share to be a set of the

lame:	TURNER
osition / Community:	ENVIRONNETY
	NATIONAL AUTOFFICE
Date:	MANUCLA COUNTY
ield Appraisal Officer (CDE):	hadded the line and and
lignature: Excellente	Law Index and
	T and the second
Date:	SIGD STAND, BUSINAN
1,0000	La Q Box 111-00
11.5400	P. O. BOX 11

Annex 2: Proof of Land Ownership

1	
×	REPUBLIC OF KENYA
	THE LAND CONTROL ACT (Cap. 302)
	ADD DOUTION FOR CONSENT OF LAND CONTROL BOARD
1	To be submitted in TRIPLICATE in respect of each transaction and sent to or left at the appropriate office of the Commissioner of Lands to: THE, CATABLE AN AN
	LAND CONTROL BOARD.
	L.C.R. No.
1	and Control Board for its consent to the transaction described below, and give the following
	1. (a) Present registered holder of interest (full name in BLOCK LETTERS): <u>ALFRED</u> OSANDD OCHIENG IA/No.75296 OWINO OCHIENG FRANCIS D/No.7557615
	(b) Nationality KENTAK
	(c) Address P.D. BOX 224 BUSIA
	2. (a) Proposed purchaser, transferce, moitgagee, charpee, allottee, etc. (full name in BLOCK LETTERS) COUNTY GOVERNMENT OF BUSH SIUNGA AQUA PARK
	capital and principal shareholders; if a co-operative society, names of chairperson, secretary and treasurer and total number of members
	(c) Nationality KENYAN Certificate No.
	 (d) Address J. C. D. D. X. J. F. C. D. F. D. J. J.
	4. Term (i.e. the length of time for which the land affected is to be transferred or leased if sale or allotment of shares, authorized share capital of the company and numbers of shares issued at date of application). ACBCOLOTE.
	5. Description of Land-NARACH / ELUKONGO /2911
	Ares 1.175 ACRES.
	Ares 1.175 ACRES: Locality ELUKON90

		v option		Sh.
5. (a)	Purchase price, if a save s	a option	К	Sh
	Rent	and the states	K	Ch .
	Estimated value of the la	na (it a gin)		CL
	Amount of loan (if a mor	rigage or charge)		SR
	Rate of interest (if a mor	tgage or charge)	·***	9
	Any other information regarding the description included in the purchase	affecting the an and area of crop price	s with estim	e consideration, particulari ated yields and value therea
(5)	Full description and ap	proximate value c	f improvenu	ents on land included in the
	consideration			
2.5				
(c)	Any other consideration	passing between t	he parties	
7. lf tr	ansfer or lease of the land	_		
Pro	posed development progra	some of muchane	· Includion	
app	roximate date	anime of purchase	c, including	tunds available thereof with
P-	and the second second		************	
Dos	es une purchaser/lessue inte	nd to reside on the	land?	
0 14	- Cut			
0, (6	the proposed purchas	registered in the n or, transferee, less	ame of or hel	d under contract for sale by e, or any member(s) of his
	immediate family, or a any interest in such co	mpany)-	nich he has at	a matterest (state the nature of
	immediate family, or a any interest in such co L.R. or Parcel Nos	mpany)-	meth he has as	i marrest (state the nature of
	immediate family, or a any interest in such co L.R. or Parcel Nos Owner	mpany)-	mich he has a	i marrest (state the nature of
	immediate family, or a any interest in such co L.R. or Parcel Nos Owner	mpany)-	nich be has ai	a marrest (state the nature of
	immediate family, or a any interest in such co L.R. or Parcel Nos Owner Nature of interest Whether contiguous to	any company in wi mpany)	nich he has an	a marrest (state the nature of
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REPUBLIC OF KENYA

THE LAND CONTROL ACT (Cap. 302)

APPLICATION FOR CONSENT OF LAND CONTROL BOLLDE	
To be submitted in TRIPI ICATE in STRUCT OF LININ CONTROL BOARD	
Sent to or left at the annronrigte office of the Commission and	
To: THE S. H.A. I.S.N. A.W.	
LAND CONTROL BOARD.	
LCR. No.	
THEREBY apply to the BUTULA	
Land Control Board for its consent to the transaction described below, and give the foll information:	owing
1. (a) Present registered holder of interest (full name in BLOCK I province)	
JOHN NDENGE TOLE	
10/Nº 7.57614E.	
(b) Nationality KENTAN:	
(a) Address P. S. B. B. V	
2. (d) Proposed purchaser, transferee, mortgagee, chargee, allottee, etc. (full name in	
BLOCK LETTERS) COUNTY GOVERNORNT OF	BUSA
GIUNGA ROVA PARK	
(b) If a limited liability company, names of directors, authorized and issued capital and principal shareholders; if a concentrice accient.	share
chairperson, secretary and treasurer and total number of members	s of
home of an and the second seco	

(c) Nationalian KENGAN :	
(c) Address P. S. Certificate No.	
(a) Address 1.0. 100x 142-50400 BUSI	A
 Nature of transaction (e.g. sale, gift, lease, mortgage, charge, etc., : if sale or allotmer shares name of company, number and particulars of shares to be transferred) 	It of
SALLEN OF LAND.	
 Term (i.e. the length of time for which the land affected is to be transferred or lease sale or allotment of shares, authorized share capital of the company and number shares issued at date of application) 	d if s of
MAN AN I A	
5. Description of Land-	
LR. or Parcel No. / TARACH / ELUKONGO/ 16/ Area 1.2 ACRES	4
Locality ELUKONGO	ions :
County OF BUCIA.	1000
and the second se	

6 (a) Durchase price if a sale or option	KSh
D. (a) Purchase prices in a second of p	KSh
trainested value of the land (if a rift)	KSh
Estimated value of the most and of charge)	KSh
Amount of Joan (if a mortange or charge)	
Any other information affecting the amount of regarding the description and area of crops with e included in the purchase price	f the consideration, particularly stimated yields and value thereof
(b) Full description and approximate value of impro- consideration	vements on land included in the
(c) Any other consideration passing between the partie	s
7. If transfer or lease of the land_	
Proposed development programme of each last last	
approximate date	ing funds available thereof with
	······································
Durch and a first start	
Does the purchaser/lessee intend to reside on the land?	
 Boos the purchaser/lessee intend to reside on the land? 8. (a) Other agricultural land registered in the name of othe proposed purchaser, transferee, lessee or al immediate family, or any company in which he is any interest in such company)— 	r held under contract far sale by lottee, or acy member(s) of his as an interest (state the nature of
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Do's the purchaser/lessee intend to reside on the land? 8. (a) Other agricultural land registered in the name of a the proposed purchaser, transferee, lessee of al immediate family, or any company in which he is any interest in such company)— I.R. or Parcel Nos Ar Owner Nature of interest Whether contiguous to land being purchased Whether contiguous to land being purchased Whether contiguous to land being purchased L.R. or Parcels Nos District L.R. or Parcels Nos District L.R. or Parcels Nos District Vertice purchased for the particular of transferee Vertice purchaser determined and the above information is true to belief.	n held under contract far sale by lottee, or acy member(s) of his as an interest (state the nature of ca of by purchaser or lessee in the Area Area Area Signature of owner, lessor, right, therefore, the sort right, therefore, the sort right, the sort or agents, etc.

REPUBLIC OF KENYA

	(Cap. 302)
	APPLICATION FOR CONSENT OF LAND CONTROL BOARD
To: TH	To be submitted in TRIPLICATE in respect of each transaction and sent to or left at the appropriate office of the Commissioner of Lands
LA	ND CONTROL BOARD.
	L.C.R. No.
IH	EREBY apply to the BDTULA
Land C informa	ontrol Board for its consent to the transaction described below, and give the following tion:
1.	 (a) Present registered bolder of interest (full name in BLOCK LETTERS): ELCHARD ONTANGO OLANGO ID/NO: 3757262/ STEPE OLOGO OLANGO ID/NO: 3757262/ DECEM OLOGO OLANGO ID/NO: 3757262/ CHARLES OWING OLANGO ID/NO: 3757262/ CHARLES OWING ORHIADORO ID/NO: 37266056 (b) Nationality KENYAAN
	(c) Address Pro Box 224 BUTULA
2.	(a) Proposed purchaser, transferee, mortgagee, chargee, allottee, etc. (full name in BLOCK LETTERS) COUNTY ONERNMENT OF BUSIA
	UTUNGA AQUA PARK
	(b) If a limited hability company, names of directors, authorized and issued share capital and principal shareholders; if a co-operative society, names of chairperson, secretary and treasurer and total number of members—
*	
	(c) Nationality KENYAN Certificate No.
	(d) Address Por Box 142-50400 BUS/A
3,	Nature of transaction (e.g. sale, gift, lease, mortgage, charge, etc, : if sale or allotment of shares name of company, number and particulars of shares to be transferred)
4.	Term (i.e. the length of time for which the land affected is to be transferred or leased if sale or allotment of shares, authorized share capital of the company and numbers of shares issued at date of application)
5.	Description of Land-
	L.R. or Parcel No. N IARAOH / ELUKONGO/ 1617
	Area
	Locality ECONON GO

		5 532 1	KSh.	
6. ((a) Purchase price, if a s	ale or option	KSh.	
	Rent	···· ··· ···	V CL	
	Estimated value of th	e land (if a gift)	Kon.	
	Amount of loan (if a	mortgage or charge)	KSh.	
	Rate of interest (if a I	nortgage or charge)	1000	
	Any other informati regarding the descrip included in the purcha	on affecting the an tion and area of crop ase price	nount of the co s with estimated	nsideration, particular yields and value there
(b)	Full description and a consideration	pproximate value of	improvements on	land included in the
144				
(c)	Any other consideratio	n passing between the	parties	
7. If t	ransfer or lease of the land	1-		
Pro	posed development prog	ramme of purchaser, i	including funds av	ailable ther, of with
****	NOASHIARE CARS			
Doe	the nurchassed assas int			
1.5		ind to I side on the lan	d?	
8. (a)	 Other agricultural land the proposed purches immediate family, or a any intrrest in such cor 	reg stered in the name er, transferee, lessee o my company in which meany)	of or held under c or allottee, or any he has an interest (ontra t for sale by member(s) of his state the nature of
	L.R. or Parcel Nos		Area	Gunnar
	Owner		The summer and	
	Nature of interest			
	Whether contiguous to	land being purchased		
(b)	Particulars of agriculture last three years	al land held and dispos	ed of by purchaser	or lessee in the
	L.R. or Parcels Nos	District	Area	
	L.R. or Parcels Nos	District	Атеа	something and the second second
9. Fan	ning experience of transfer	ee		
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				and the second se
W-1	harabai daalaa ah a d	AL-20		
belief.	acress declare that the abo	we information is true a	to the best of our k	DOW ledge and
		1-	3	in the state
Signanu Mortgagee ayem	re of purchaser, lessee c, chargee, or authorized t or agents, etc.		Signature of owne	P. lenor.
1. A. C. C.	Sector States and States	2 200	agent or ap	CHIN AND
Date		a second s	A REAL PROPERTY AND A REAL	the second se
Date	allowed under any particular in	D De insufficient ford	hate	S

Annex 3: Public Participation Questionnaires

PUBLIC PARTICIPATION

PROPOSED AQUACULTURE PARK PROJECT IN SILNGA VILLAGE

Kenya Chinate Smart Agriculture Project (KCSAP) has commissioned and invironmental. Social Management and Monitoring Plan Report for the proposed Aquaculture park project at Social village in Botula Sub-County Busia County. The requirements of LMCA of 1999 section 58 requires that environmental assessment and public participation be undertaken. We are seeking your views as stakeholders regarding the proposed project to enable us compile 151A project report for submission to National Environment Management Authority (NEMA).

NAMI EMIAN AGOR O

ADDRESS BUTULA

- For how long have you been residing in this area
 28 years
- 2. What positive impacts do you foresee from the proposed project
 - It will create employment
 - It will promote business when fich is sold it will improve living standars of people from my area.
- 3 What adverse environmental social impacts according to your opinion will arise from the project?
 - -loci of biodinavily for the area where the project will be underfater
- 4. What remedies do you think may initigate these negative impacts if any 9
 - More there is should be planted near the rite of the project
- Do you have any other information?

PUBLIC PARTICIPATION

PROPOSED AQUACULTURE PARK PROJECT IN SIUNGA VILLAGE

Kenya Chimate Smart Agriculture Project (KCSAP) has commissioned an Environmental, Social Management and Monitoring Plan Report for the proposed Aquaculture park project at Sounga vollage in Butula Sub County Busia County. The requirements of LMCA of 1999 acction 58 requires that environmental assessment and public participation be undertaken. We are seeking your views as stakeholders regarding the proposed project to enable us compile LSIA project report for submission to National Environment Management Authority (NI MA).

NAMI Cottles Walwire

ADDRI SS SATERHI

- For how long have you been residing in this area
 S prior (4)
- 2. What positive impacts do you foresee from the proposed project lowersed feed production - first Employment and building Observation
- 3 What adverse environmental/social impacts according to your opinion will arise from the project?

Leuror vegetation rover

4. What remedies do you think may mitigate these negative impacts if any?

maintaining the remaining rover of land and proving week

Do you have any other information?
 H 0

PUBLIC PARTICIPATION

PROPOSED AQUACITATI RE PARK PROJECT IN SUINGA VILLAGE

Kenya Climate Smart Agriculture Project (KCSAP) has commissioned an Environmental, Social Management and Monitoring Plan Report for the proposed Aquaculture park project at Sunga village in Butula Sub County Busia County. The requirements of EMCA of 1999 section 58 requires that environmental assessment and public participation be undertaken. We are seeking your views as stakeholders regarding the proposed project to enable us compile I-SIA project al Environment Management Authority (NI MA)

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project?

4 What remedies do you think may mitigate these negative impacts if any?

5. Do you have any other information."

PUBLIC PARTICIPATION

PROPOSED AQUACULTURE PARK PROJECT IN SIUNGA VILLAGE

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AGNES MEINTI NAMI 0700293048 ADDRESS 1. For how long have you been residing in this area 10 years. 2. What positive impacts do you foresee from the proposed project - Create employment. - Increased food availability What adverse environmental/social impacts according to your opinion will arise from th project? Marte generation Vegetatio ast 4. What remedies do you think may nutigate these negative impacts if any? COURT COPS custoinable collection nauro waster Do you have any other information? N

Annex 4: Experts License

nema

NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY(NEMA) THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT

ENVIRONMENTAL IMPACT ASSESSMENT/AUDIT (EIA/EA) PRACTICING LICENSE

	License No NEMA/Ela/TRPL/14939									
	Application Reference No:					NEMA/EIA/EL/19249				

M/S Chirande Dennis (individual or firm) of address

TORMT

P.O. Box 140-50400 Buna

is licensed to practice in the

in fiberia

capacity of a (Lead Expert/Associate Expert/Firm of Experts) Lead Expert registration number 6511

in accordance with the provision of the Environmental Management and Coordination Act Cap 387.

Issued Date: \$/5/2021

Expiry Date: 12/31/2021





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